SUPREME COURT OF COLORADO 2 East 14th Avenue, Denver, Colorado, 80203 Original Proceeding Pursuant to Art. V, § 48.3 of the Constitution of the State of Colorado In re Colorado Independent Legislative **Redistricting Commission ▲ COURT USE ONLY ▲** Attorneys for the Colorado Independent Legislative Redistricting Commission: Richard C. Kaufman, #8343 Law Office of Richard C. Kaufman PC, Inc. 6464 S. Newport Court Centennial, CO 80111 303.564.6633 rkaufmanco@gmail.com Timothy R. Odil, #35771 Peters Schulte Odil & Wallshein LLC 6125 Sky Pond Drive, Suite 250 Case No.: **2021 SA** Loveland, CO 80538 970.672.1876 todil@noco.law Jeremiah B. Barry, #10400 H. Pierce Lively, #50018 Jacob J. Baus, #46329 Colorado Independent Redistricting Commissions Staff 1580 Logan Street, Suite 430 303.866.4341 jerry.barry@state.co.us pierce.lively@state.co.us jacob.baus@state.co.us

#### FINAL LEGISLATIVE REDISTRICTING PLANS

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The Colorado Independent Legislative Redistricting Commission (the

"Commission") was created by the electorate in the 2018 general election with the

passage of Amendment Z. Pursuant to that amendment found at article V,

section 46-48.4, the Commission is charged with developing and submitting a

redistricting plan for each house of the Colorado General Assembly. With this

submission, the Commission submits its Final Plans (the "Plans") for the Colorado

Senate and the Colorado House of Representatives. Attached to this submission as

Exhibit 1 are statewide maps for both houses of the General Assembly, together with

regional maps to better show each house and senate district. Interactive maps<sup>1</sup> are

available at:

House: https://bit.ly/3BOCjSc

Sentate: https://bit.ly/3DCZQWv

T. THE COMMISSION

Twelve individuals served on the Commission. Each commissioner was

selected pursuant to the selection process and criteria found in article V, section 47 of

<sup>1</sup> The shortened links redirect to the following:

https://coleg.maps.arcgis.com/apps/View/index.html?appid=41b742a9931a4c87a6e

43b01c734c0c9 and

https://coleg.maps.arcgis.com/apps/View/index.html?appid=2652c370e3c6487d9fc

55f5f10a8afd4

the Colorado Constitution. Pursuant to that section, four Republicans, four Democrats, and four unaffiliated individuals served as commissioners. Biographical details about each commissioner may be found in **Exhibit 2**.

Pursuant to article V, section 48(1)(a), Governor Jared Polis convened the Commission on March 30, 2021. The Commission elected commissioner Carlos Perez chair and commissioner Kevin Fletcher vice chair. The Commission also formed four subcommittees to assist it in its work, including a Public Comment and Outreach subcommittee, a Rules and Procedures subcommittee, an Outside Legal Counsel and Legislative Affairs subcommittee, and a Mapping and Quantitative Methods subcommittee.

#### A. The Commission's Meetings

Since March 30, 2021, the Commission has held 45 meetings. Audio archives and materials for each meeting may be found at https://tinyurl.com/2hjxtmw6<sup>2</sup> and https://tinyurl.com/7jpbz6wh.<sup>3</sup> The subcommittees met regularly to assist the Commission with gathering and analyzing relevant information and preparing the

<sup>&</sup>lt;sup>2</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/meeting-summaries

<sup>&</sup>lt;sup>3</sup> The shortened link redirects to the following: https://sg001-harmony.sliq.net/00327/Harmony/en/View/EventListView/20210401/155

Commission during its deliberations. Information regarding each subcommittee meeting is available at the same locations cited above.

#### B. The Commission's Public Hearings

In addition, and pursuant to article V, section 48(3)(b), the Commission held 35 public hearings across the state of Colorado, including at least three in each of the existing seven congressional districts, at least one hearing west of the Continental Divide, and at least one hearing east of the Divide in a designated area of the eastern Plains. During those public hearings, the Commission heard in-person and virtual testimony from individuals regarding the redistricting criteria found in article V, section 48.1.

Further, the Commission received thousands of comments via its website, including redistricting maps drafted by individual citizens. Those comments may be found at https://tinyurl.com/nwu73v7h.4

A list of the dates and times of the Commission's meetings, and the dates, times, and locations of the Commission's public hearings, is attached as **Exhibit 3**.

<sup>&</sup>lt;sup>4</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/public\_comments/

#### II. REDISTRICTING PLANS PREPARED BY NON-PARTISAN STAFF

Pursuant to article V, section 48.2(1), on June 29, 2021, the Non-Partisan Staff released a "preliminary senate plan" and a "preliminary house plan" for the Commission's consideration. Due to the COVID-19 pandemic, the census data that normally is released on or about April 1 of the year following the decennial census, was delayed until August 12, 2021, and was not formatted for redistricting until late August of this year. Under those circumstances, the preliminary senate and house plans utilized preliminary data as authorized by Commission Policy No. 1, Use of Alternative Data Sources for Preliminary Plan, available at https://tinyurl.com/unndvw6c.<sup>5</sup>

Once the final census data was available, the Non-Partisan Staff released the First Staff Plan on September 13, 2021. The Second Staff Plan was released on September 23, 2021. The Third Staff Plan was released on October 5, 2021. The three staff plans and supporting material may be found at https://tinyurl.com/477kwuwe.<sup>6</sup>

<sup>&</sup>lt;sup>5</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

<sup>&</sup>lt;sup>6</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/2021-redistricting-maps

In support of the Commission, and at its direction, the Non-Partisan Staff created additional plans requested by commissioners, as well as amendments to plans requested by commissioners, for the Commission's consideration. All such plans and amendments may be viewed at the location cited above.

#### III. THE FINAL REDISTRICTING PLANS

#### A. The Final Colorado House of Representatives Plan.

On Monday, October 11, 2021, by a vote of 11 to 1, the Commission adopted a final redistricting plan for the Colorado House of Representatives. Pursuant to article V, section 48(2), eight or more commissioners, including at least two unaffiliated commissioners, voted in the affirmative. The final plan adopted on October 11, 2021 is submitted to the Supreme Court for review pursuant to article V, section 48.3. *See* Exhibit 1.

The final plan for the House of Representatives contains sixty-five districts.

Descriptions and information for each House district is attached as **Exhibit 4**.

#### B. The Final Colorado Senate Plan.

On Tuesday, October 12, 2021, by a unanimous vote, 12 to 0, the Commission adopted a final redistricting plan for the Colorado Senate. Pursuant to article V, section 48(2), eight or more commissioners, including at least two unaffiliated commissioners, voted in the affirmative. The final plan adopted on October 12, 2021

is submitted to the Supreme Court for review pursuant to article V, section 48.3. *See* Exhibit 1.

The final Plan for the Senate contains thirty-five districts. Descriptions and information for each Senate district is attached as **Exhibit 5**.

Non-Partisan Staff has prepared a designation of sequencing of senate district elections identifying the districts from which state senators will be elected in 2022 and 2024 under the final Senate Plan pursuant to C.R.S. § 2-2-503 and Commission Policy No. 3, New Senate Districts with Multiple Incumbents or Holdover Senators, available at https://tinyurl.com/unndvw6c. <sup>7</sup> The sequencing designation is attached as **Exhibit 6**.

#### C. The Plans Satisfy All Constitutional Criteria.

The Commission drew each House and Senate district in compliance with all criteria found in the Colorado Constitution, article V, section 48.1.

# 1. The Plans Satisfy Population Equality Between Districts and Contiguity Requirements.

Each House and Senate district is within the five percent population deviation required by article V, section 48.1(1)(a). The most populous House district has a population of 90,864, and the least populous a population of 86,485. The most

<sup>&</sup>lt;sup>7</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

populous senate district contains a population of 169,103, and the least a population of 160,874. Census blocks were adjusted to reallocate state prisoners to their pre-incarceration residence as directed by Commission Policy No. 2, Direction to Staff on Incarcerated Persons Residence, available at https://tinyurl.com/unndvw6c.8

Reports showing that each district is within the constitutionally allowed deviation are attached as **Exhibit 7**. The reports include demographic information about the ethnic and racial background of the individuals residing in each district.

Each House and Senate district is composed of contiguous geographic areas in compliance with article V, section 48.1(1)(a). *See also* Commission Policy No. 4, Policy on Contiguity, available at https://tinyurl.com/unndvw6c.<sup>9</sup>

#### 2. The Plans Comply with the Federal Voting Rights Act.

The House and Senate plans comply with the Voting Rights Act, 52 U.S.C. § 10301 (the "VRA") as required by article V, section 48.1(b), of the Colorado Constitution. The Commission adopted Policy No. 9, Voting Rights Act Compliance, to guide its VRA deliberations. Policy No. 9 is attached as **Exhibit 8** and is also

<sup>&</sup>lt;sup>8</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

<sup>&</sup>lt;sup>9</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

available at https://tinyurl.com/unndvw6c.<sup>10</sup> The Commission was assisted in its VRA deliberations by Dr. Lisa Handley, a Voting Rights Act expert analyst. Her report is attached as **Exhibit 9**. In addition, the Non-Partisan Staff conducted additional VRA analysis for the Commission. Attached as **Exhibit 10** is the VRA analysis for the House and Senate districts produced by the Non-Partisan Staff.

3. The Plans Preserve Communities of Interest and Political Subdivisions, and Comply With the Constitutional Justifications for Splits.

The Commission gathered information about communities of interest throughout the state through the public hearing and comment process. The Commission sought to keep communities of interest, as defined in Amendment Z, as intact as reasonably possible. Colo. Const. art. V., § 48.1(2)(a). The Commissioners gathered information about communities of interest at its 45 meetings and 35 public hearings, together with the thousands of written public comments submitted. *See* Section I, above. The public input informed the Commission's decisions and played a central role in the creation and approval of all proposed plans and the final Plans submitted here.

The Commission and Non-Partisan Staff preserved whole political subdivisions as much as reasonably possible. Colo. Const. art. V., § 48.1(2)(a). When it was

<sup>&</sup>lt;sup>10</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

necessary to divide a whole political subdivision to maintain equal population between districts, the Commission kept key communities of interest together in the same district as much as reasonably possible. A report describing the political subdivision splits required is attached as **Exhibit 11**.

# 4. The Plans Satisfy the Constitution's Compactness Requirement.

The Commission and Non-Partisan Staff kept the districts as compact as reasonably possible while also accounting for the other constitutional factors. Colo. Const. art. V., § 48.1(2)(b). To guide the Commission and Non-Partisan Staff, the Commission adopted Policy No. 7, Compactness of House and Senate Districts, available at https://tinyurl.com/unndvw6c.<sup>11</sup> A report on the compactness of the districts is attached as **Exhibit 12**.

# 5. The Plans Maximize the Number of Politically Competitive Districts.

After considering other mandatory constitutional factors, the Commission maximized the number of politically competitive districts to the extent possible pursuant to Commission Policy No. 6, Direction to Staff on Maximizing

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<sup>&</sup>lt;sup>11</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

Competitiveness, https://tinyurl.com/unndvw6c.<sup>12</sup> Colo. Const. art. V, § 48.1(3)(a). As required by article V, section 48.1(3)(a)-(c), Non-Partisan Staff has prepared an analysis of the political competitiveness of the districts in the Final Plan. The report is attached as **Exhibit 13**. The analysis includes tables addressing the partisan composition of districts and past election results of each district.

In addition, the Commission received and considered an ensemble analysis prepared by Dr. Jeanne Clelland of the University of Colorado at Boulder, Drs. Beth Malmskog and Flavia Sancier-Barbosa of Colorado College, and Dr. Daryl DeFord of Washington State University. In summary, the ensemble analysis generated and considered more than 2,000,000 possible redistricting plans, and prepared a statistical analysis of the competitiveness of those plans. By comparing the competitiveness results of the actual plans considered by the Commission to the ensemble of more than 2,000,000 possible plans, the Commission further confirmed that its proposed plans maximized competitiveness. The ensemble analysis is attached as **Exhibit 14**.

# 6. The Plans Were Not Drawn to Protect Incumbents, Candidates, or Political Parties.

The Commission and the Non-Partisan Staff affirm that the Plans were not drawn for the purpose of protecting any incumbent members of the Colorado Senate

<sup>&</sup>lt;sup>12</sup> The shortened link redirects to the following: https://redistricting.colorado.gov/content/policies-and-guidelines

or House of Representatives, any declared candidates, or any political party. Colo. Const. art. V., § 48.1(4)(a).

7. The Plans Do Not Deny or Abridge the Right to Vote on Account of Race or Membership in a Language Minority Group.

The Plans were not drawn for the purpose of, and do not result in, the denial or abridgement of the right of any citizen to vote on account of that person's race or membership in a language minority group, including diluting the impact of that racial or language minority group's electoral influence. Colo. Const. art. V., § 48.1(4)(b).

#### IV. SUPREME COURT REVIEW

On July 26, 2021, this Court entered an Order providing that simultaneous briefs from all interested parties shall be due seven days after the Commission submits the Plans and accompanying material to this Court, but in no event later than noon on October 22, 2021. *See* July 26, 2021 Order, *In re Colo. Indep. Congressional Redistricting Comm'n*, Case No. 2021 SA 208. The Court scheduled oral argument for 1:00 p.m. on October 25, 2021.

The Commission will file a brief in support of the Plans by noon on October 22, 2021, and it will participate in oral argument on October 25, 2021.

#### V. REQUEST FOR RELIEF

The Commission respectfully requests that the Court consider this filing, the material referenced herein, and the briefs that will be submitted in support of the

Plans, conclude that the Commission complied with constitutional and statutory law in preparing the Plans and did not abuse its discretion in applying the criteria listed in article V, section 48.1 of the Colorado Constitution, approve the Plans, and order the Plans to be filed with the Secretary of State.

Respectfully submitted this 15th day of October, 2021.

s/ Richard C. Kaufman

Richard C. Kaufman, #8343 Law Office of Richard C. Kaufman P.C., Inc.

Timothy R. Odil, #35771 Peters Schulte Odil & Wallshein LLC

Jeremiah B. Barry, #10400 H. Pierce Lively, #50018 Jacob J. Baus, #46329 Colorado Independent Redistricting Commissions Staff

Counsel for the Colorado Independent Legislative Redistricting Commission

#### **CERTIFICATE OF SERVICE**

The undersigned hereby certifies that on the 15th day of October, 2021, a true and correct copy of the foregoing **FINAL LEGISLATIVE REDISTRICTING PLANS** was served via the Court Electronic Filing System, upon the following:

Leeann Morrill
Grant T. Sullivan
Peter G. Baumann
Ralph L. Carr Colorado Judicial Center
Office of the Colorado Attorney General
1300 Broadway, 6<sup>th</sup> Floor
Denver, CO 80203
leeann.morrill@coag.gov
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Attorneys for the Colorado Secretary of State

s/ Richard C. Kaufman

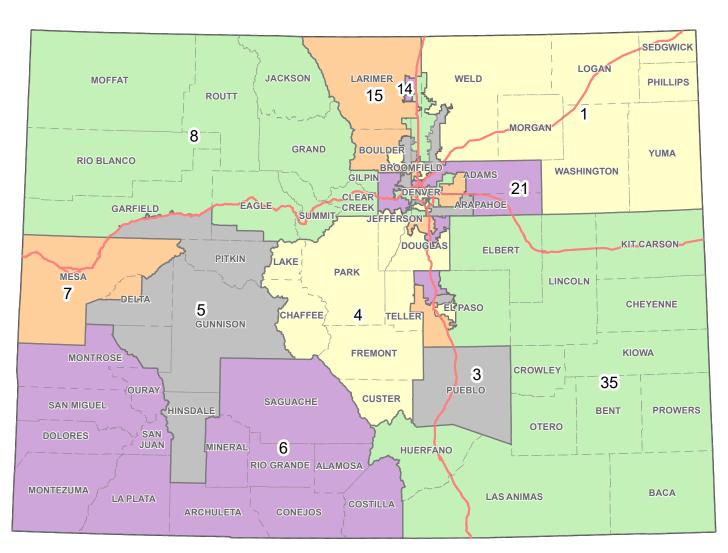
In re Colorado Independent Legislative Redistricting Commission

#### Exhibit 1

Final Statewide District Maps and Regional District Maps

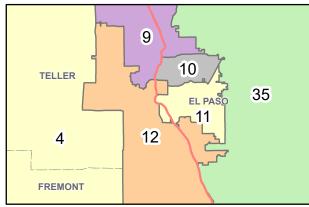


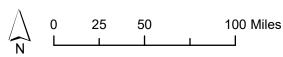
# **Colorado Senate Districts Statewide - Final Approved Plan**



Denver Metro Area WELD BROOMFIELD ADAMS DENVER! **JEFFERSON** ARAPAHOE ELBER DOUGLAS

Colorado Springs Metro Area

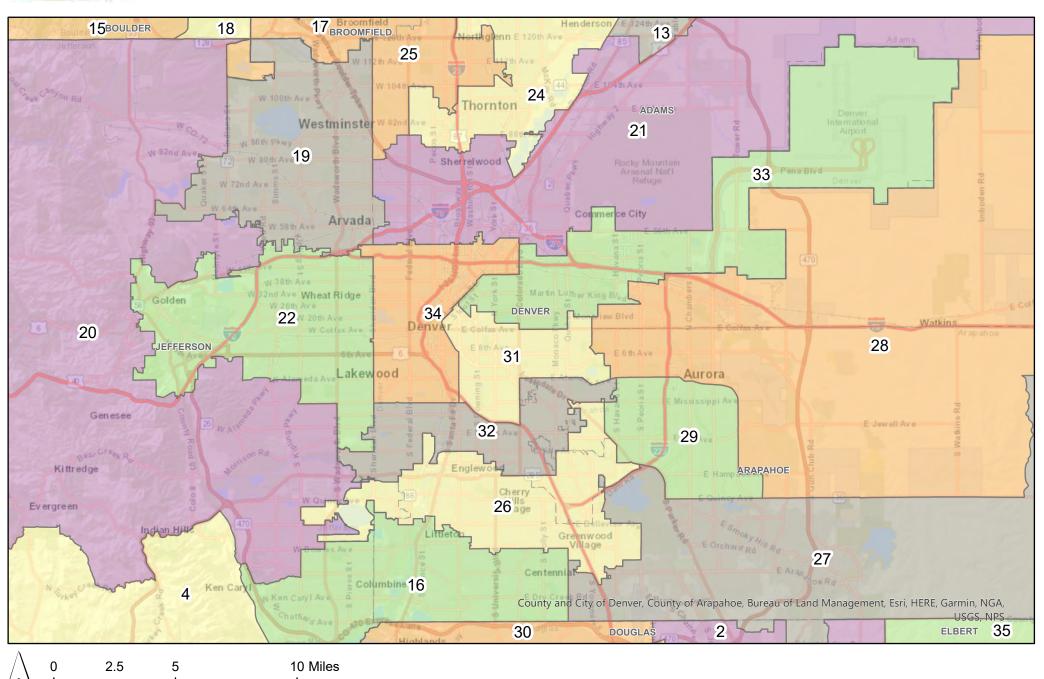




Map prepared by Colorado Independent Redistricting Commissions Staff. Approved October 12, 2021.

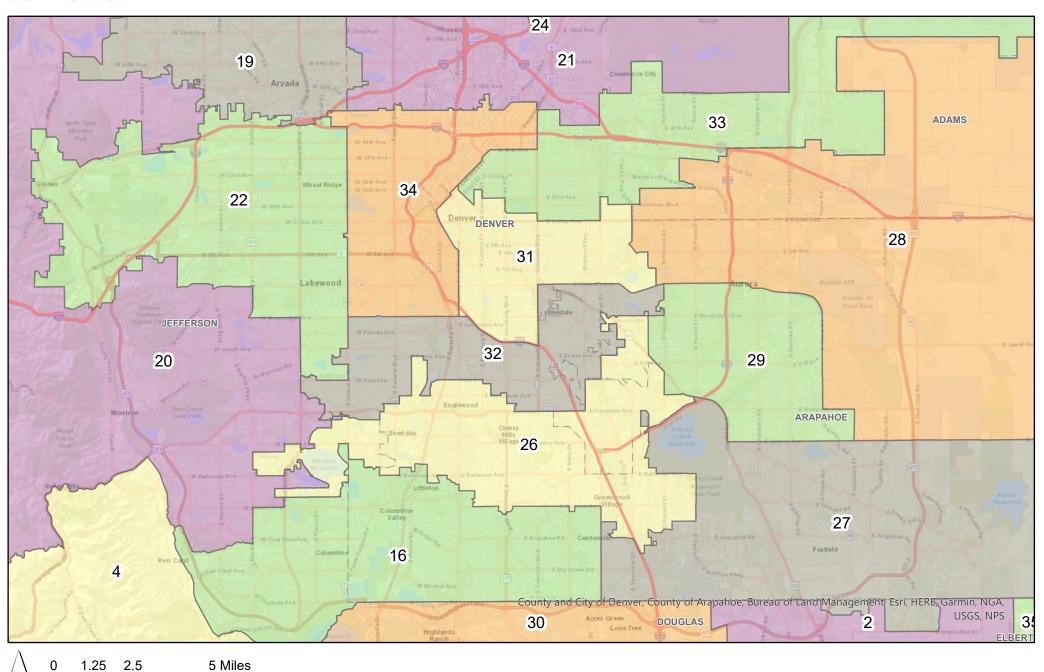


#### **Colorado Senate Districts Denver Metro Area - Final Approved Plan**





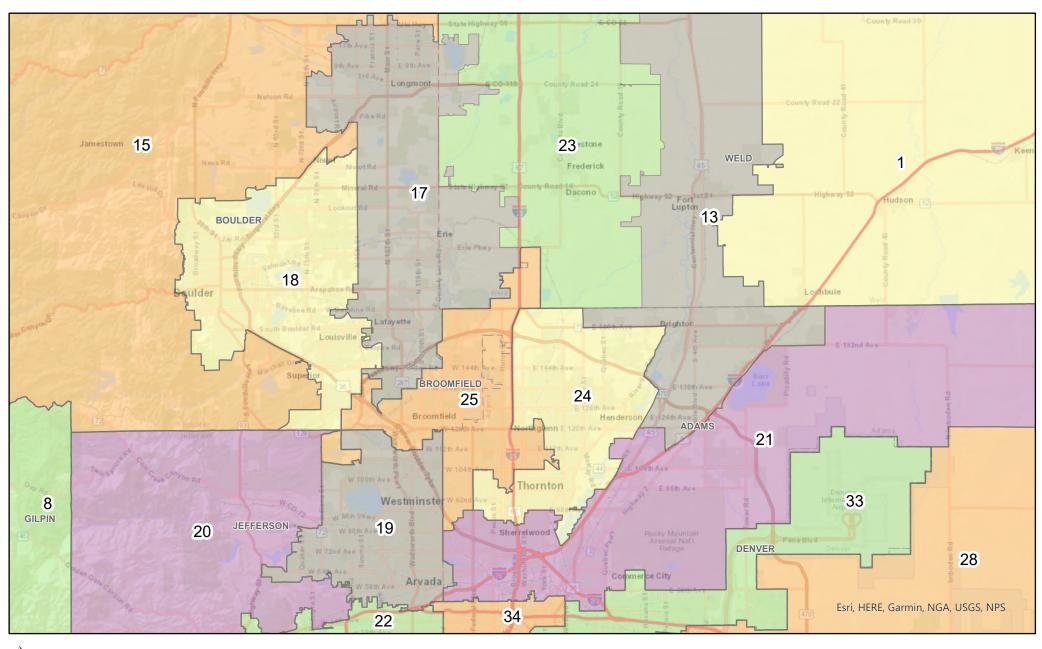
### **Colorado Senate Districts South Denver Metro Area - Final Approved Plan**





2.5

# **Colorado Senate Districts North Denver Metro Area - Final Approved Plan**

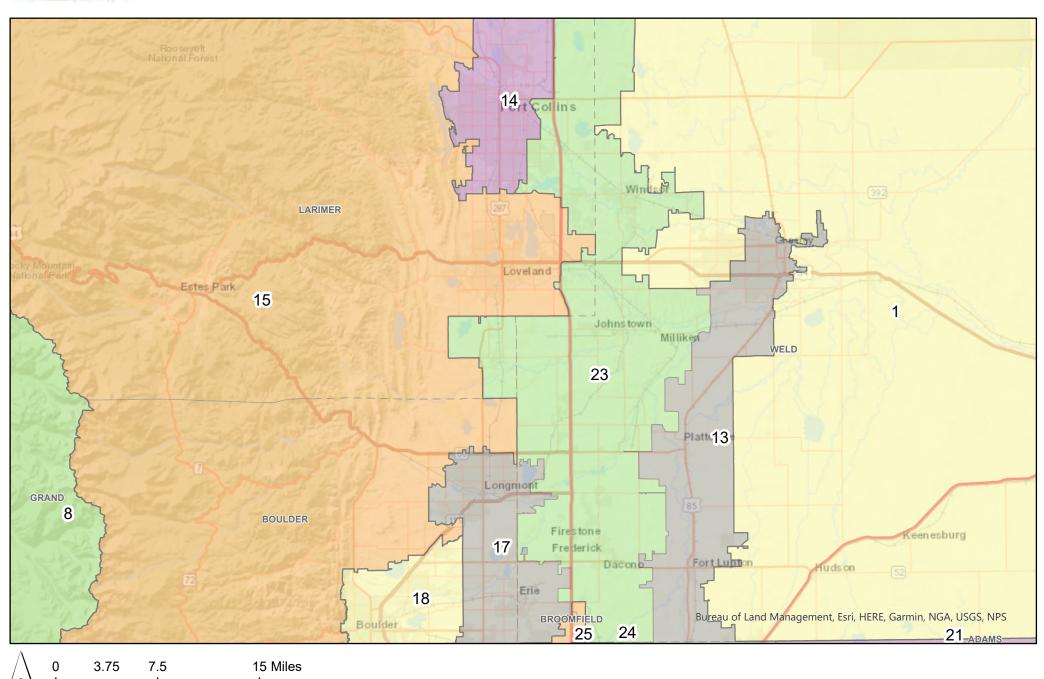


Map prepared by Colorado Independent Redistricting Commissions Staff. Map approved October 12, 2021. Map prepared October 13, 2021.

10 Miles

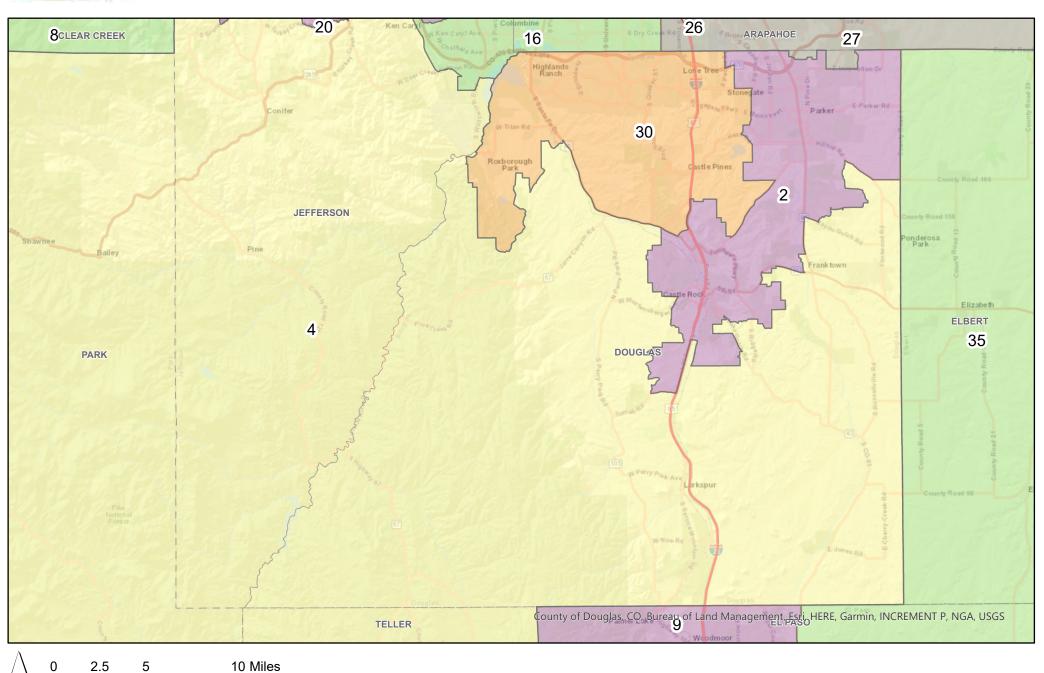


#### Colorado Senate Districts North I-25 Area - Final Approved Plan



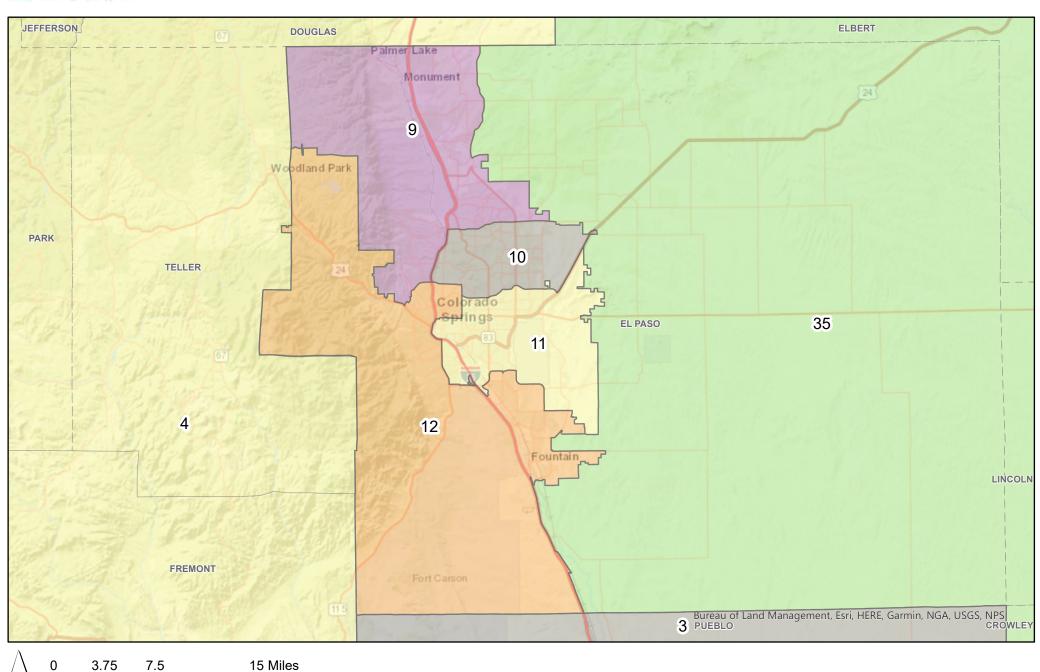


# **Colorado Senate Districts Douglas County - Final Approved Plan**



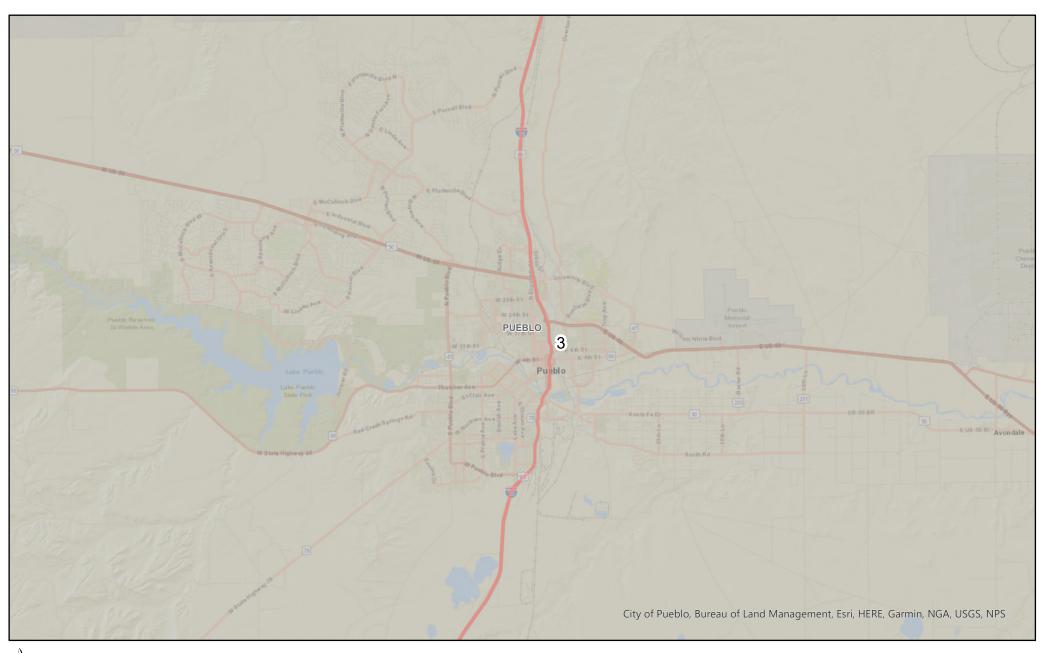


# **Colorado Senate Districts El Paso County - Final Approved Plan**





# **Colorado Senate Districts Pueblo Area - Final Approved Plan**



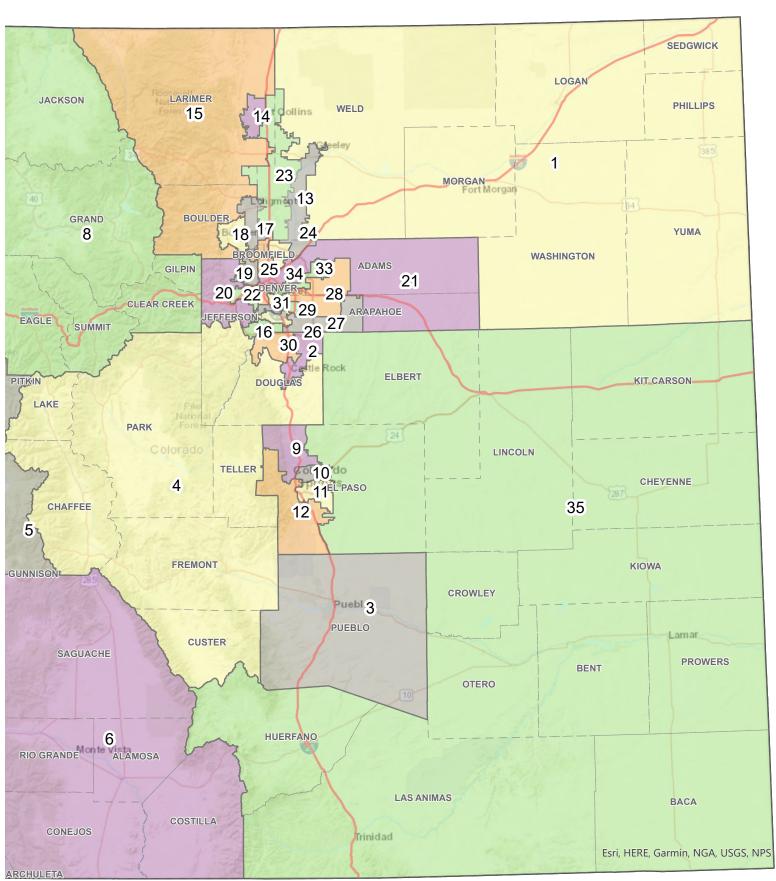
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1.25 2.5

5 Miles



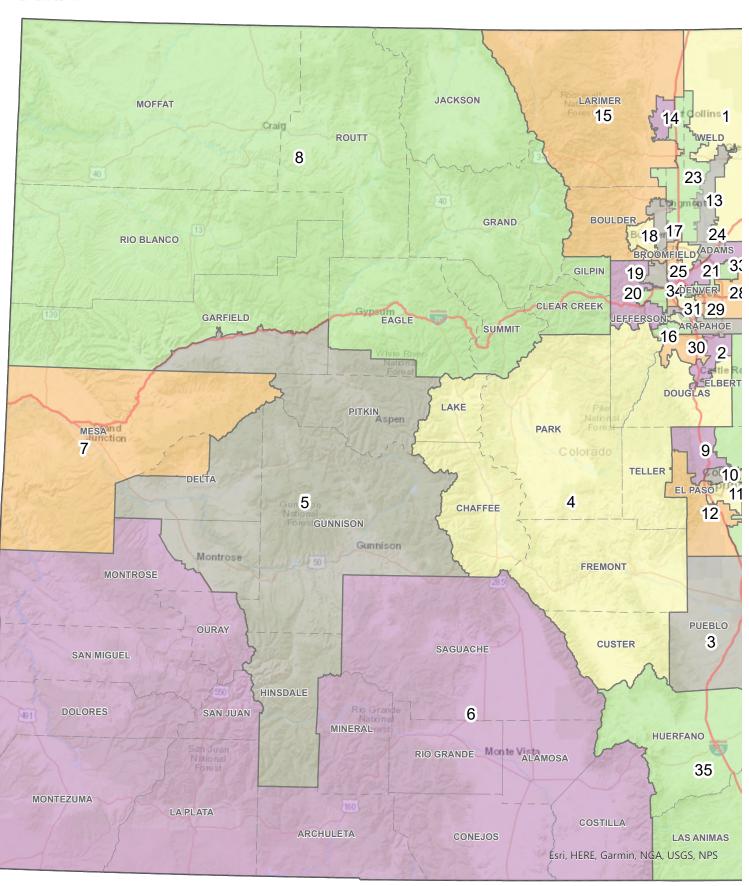
# Colorado Senate Districts - East Final Approved Plan







# Colorado Senate Districts - West Final Approved Plan

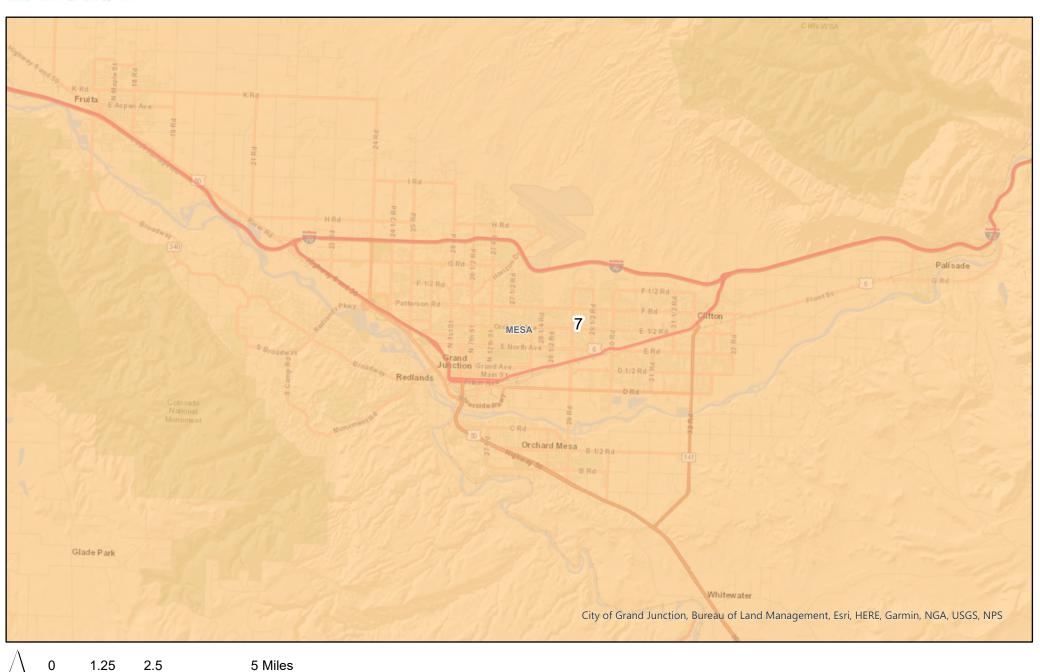




0 12.5 25 50 Miles

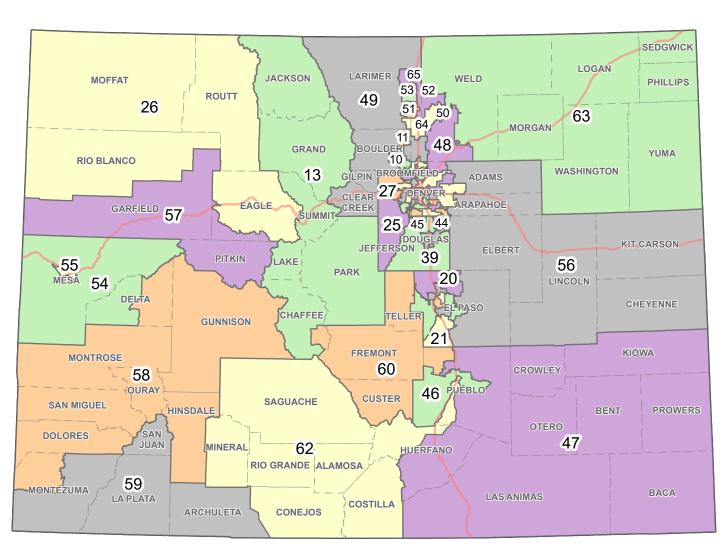


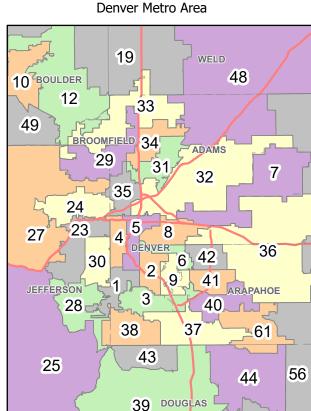
# **Colorado Senate Districts Grand Junction Area - Final Approved Plan**





# Colorado House Districts Statewide - Final Approved Plan



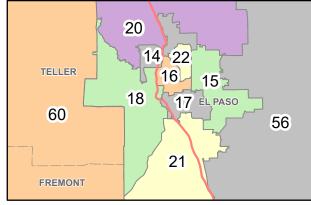


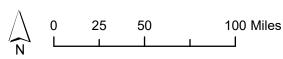
Colorado Springs Metro Area

DOUGLAS

45

ÈLBER

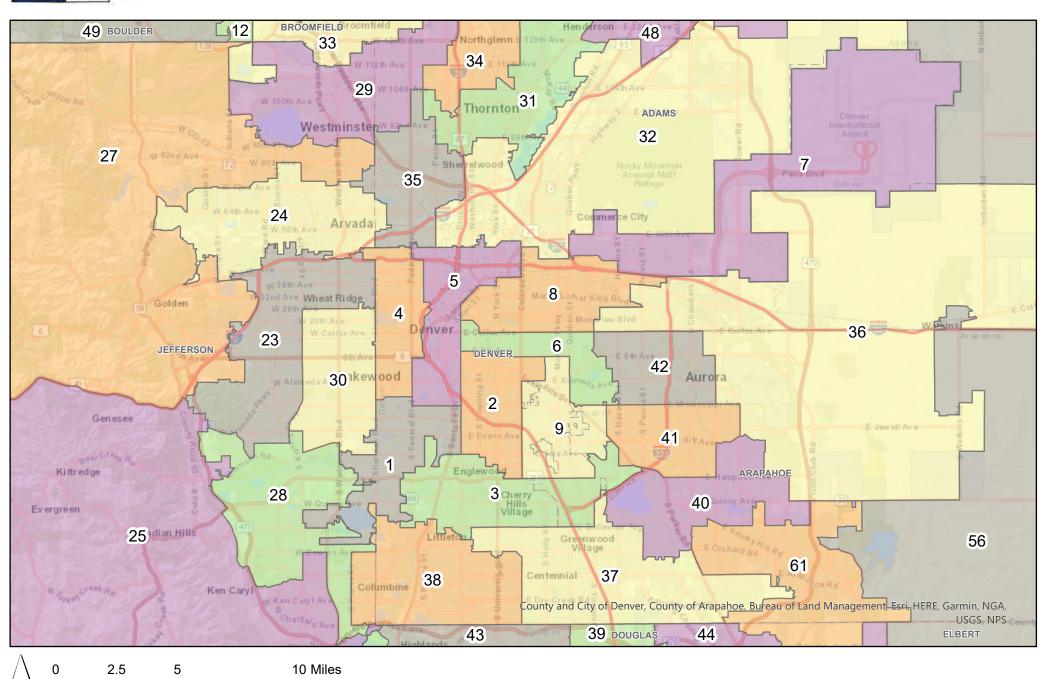




Map prepared by Colorado Independent Redistricting Commissions Staff. Approved October 11, 2021.

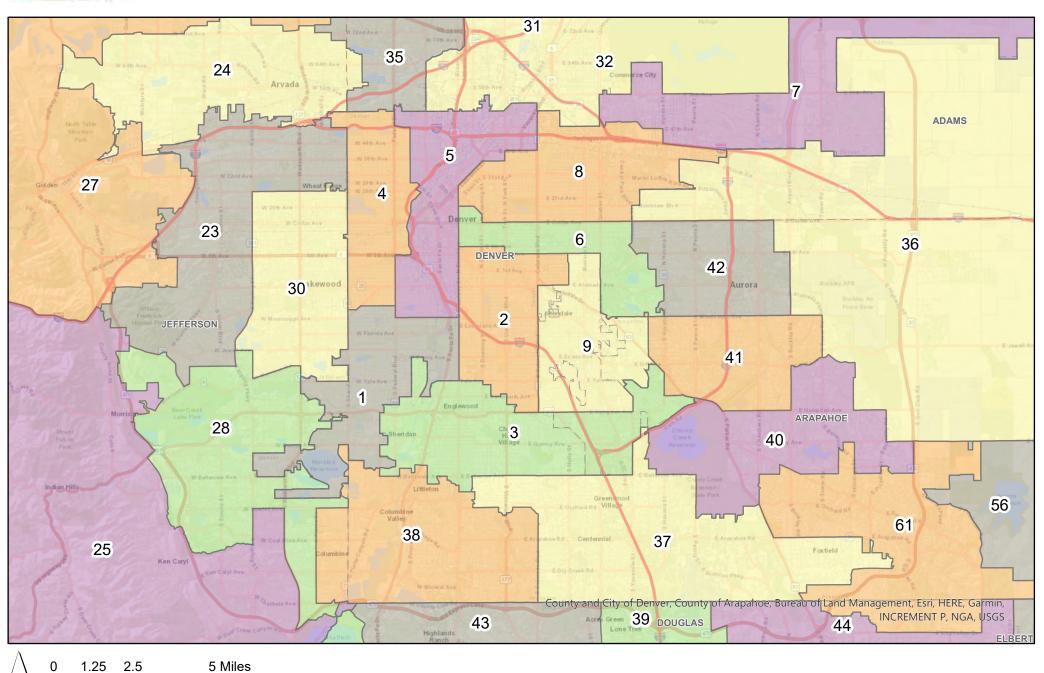


#### **Colorado House Districts Denver Metro Area - Final Approved Plan**





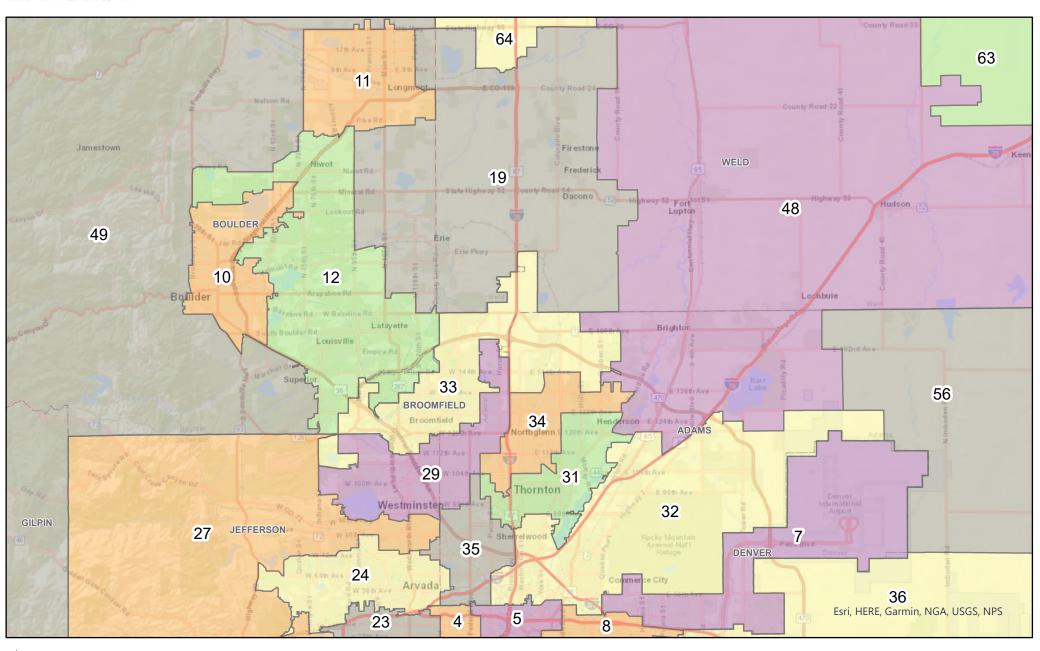
### Colorado House Districts South Denver Metro Area - Final Approved Plan





2.5

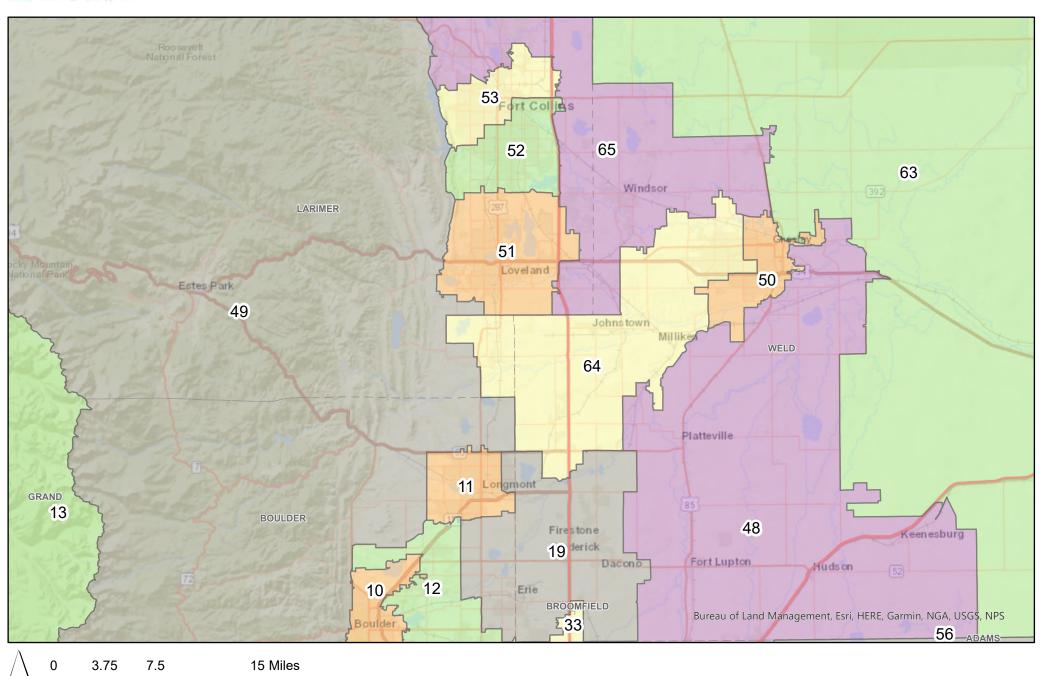
# Colorado House Districts North Denver Metro Area - Final Approved Plan



10 Miles

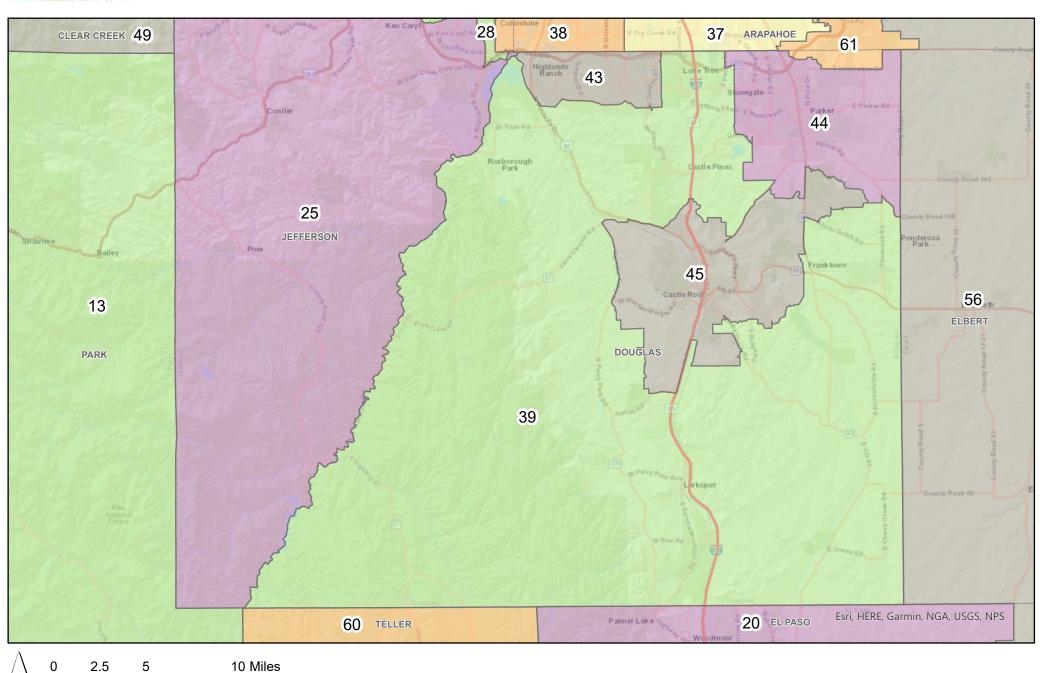


#### Colorado House Districts North I-25 Area - Final Approved Plan



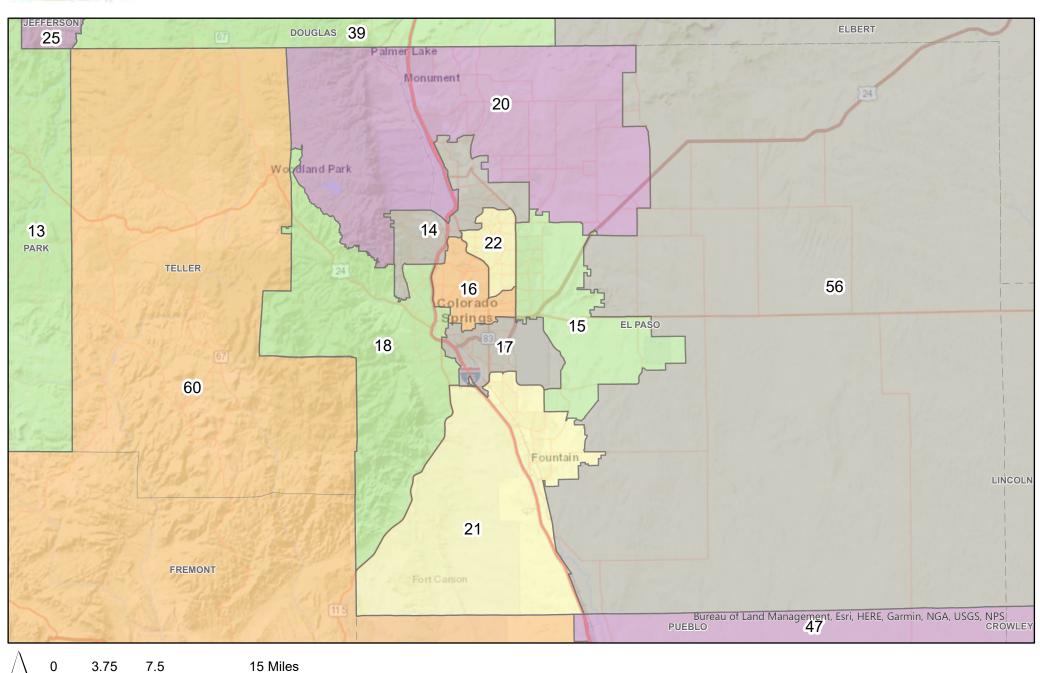


# **Colorado House Districts Douglas County - Final Approved Plan**



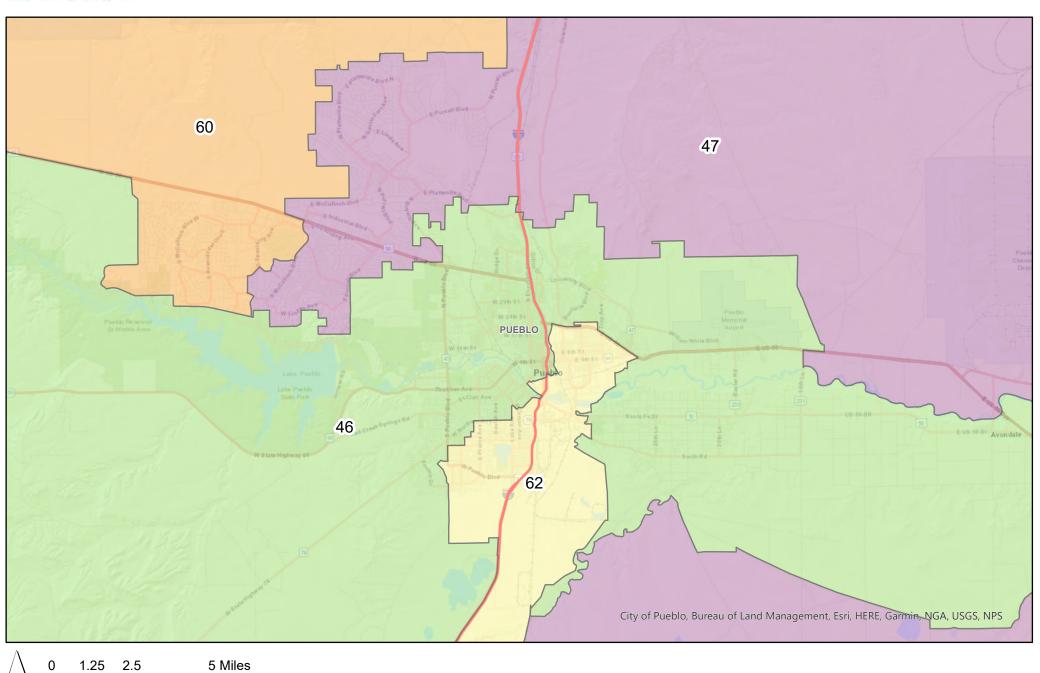


# **Colorado House Districts El Paso County - Final Approved Plan**



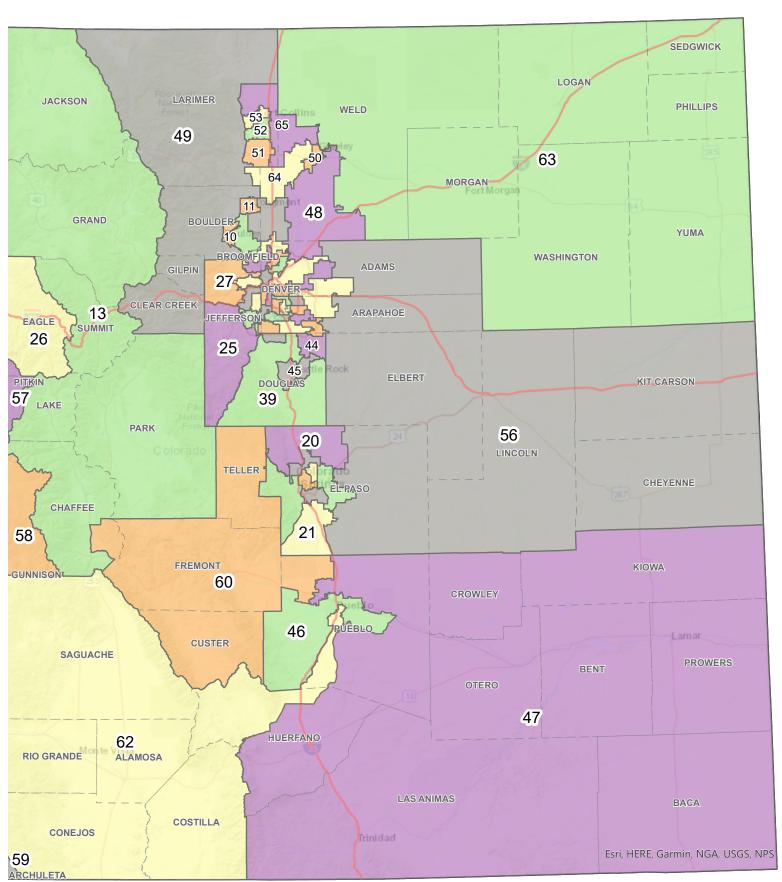


# **Colorado House Districts Pueblo Area - Final Approved Plan**



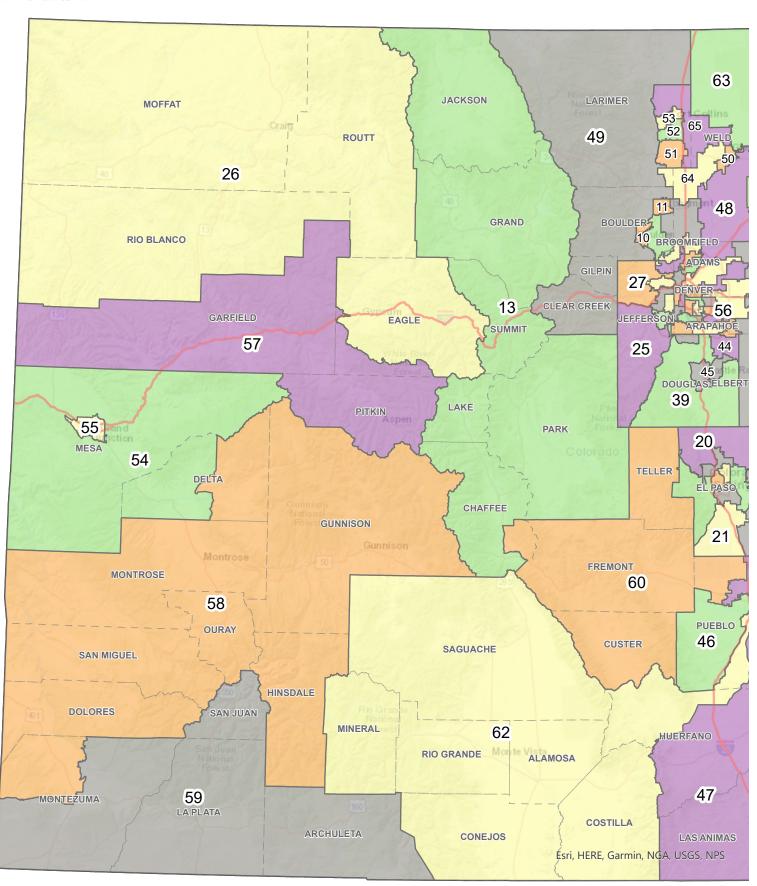


# Colorado House Districts - East Final Approved Plan





## Colorado House Districts - West Final Approved Plan





0 12.5 25 50 Miles

Most Denver Metro and Colorado Springs Metro districts not labeled.

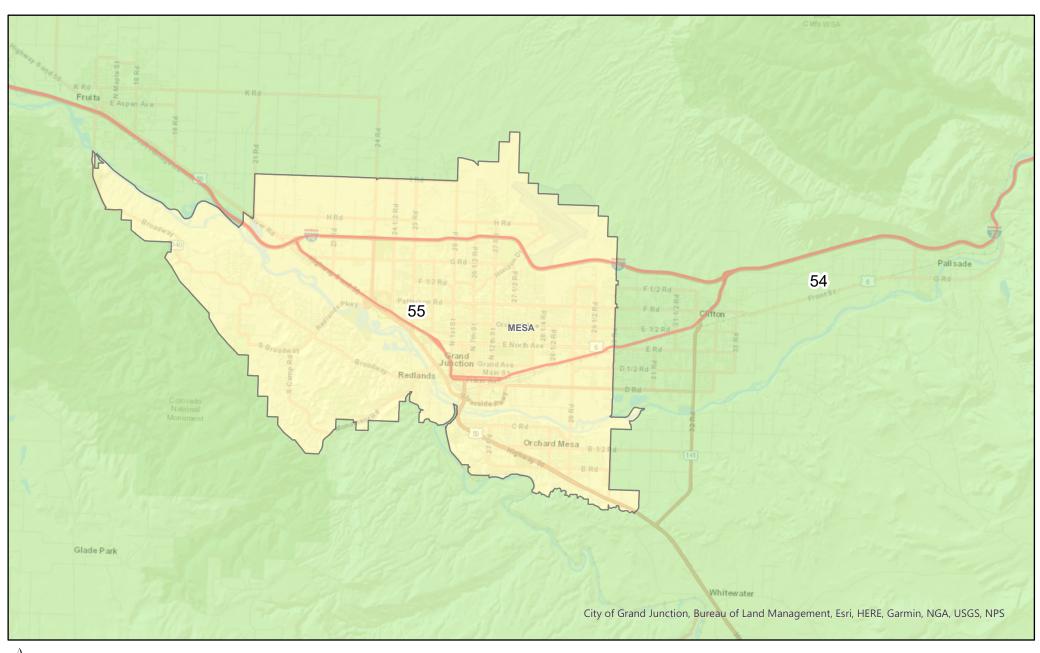


1.25

2.5

5 Miles

## **Colorado House Districts Grand Junction Area - Final Approved Plan**



Map prepared by Colorado Independent Redistricting Commissions Staff. Map approved October 11, 2021. Map prepared October 13, 2021.

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 2

Commissioner Biographical Details



## Colorado Independent Redistricting Commissions Staff

1580 Logan Street, Suite 430 Denver, CO 80203 303-866-2652

colorado.redistricting2020@state.co.us

## Members of the Colorado Independent Legislative Redistricting Commission

The Colorado Independent Legislative Redistricting Commission consists of 12 members: 4 from the state's largest political party, which is currently the Democratic Party; 4 from the state's second largest political party, which is currently the Republican Party; and 4 who are not affiliated with any political party. Each commission must include at least one member residing in each current congressional district and at least one member from the Western Slope. Each commission must, to the extent possible, reflect Colorado's racial, ethnic, gender, and geographic diversity. The members of the commissions are appointed from a pool of applicants as described below. The law also addresses how to remove a commissioner and fill a vacancy.

**Phase One.** Individuals apply using online application process.

**Phase Two.** Nonpartisan staff review of applications for the initial applicant pool. Applicants are reviewed for minimum qualifications specified in the constitution regarding affiliation and voting.

**Phase Three.** The judicial panel randomly selects 300 Democrats, 300 Republicans, and 450 unaffiliated voters to establish a selection pool of 1,050 people.

**Phase Four.** The judicial panel reviews applications and narrows the pool down to 50 Democrats, 50 Republicans, and 50 unaffiliated voters to establish a pool of 150 people.

**Phase Five.** The judicial panel randomly selects 6 commissioners (2 Democrats, 2 Republicans, and 2 unaffiliated voters) from the 150-person pool.

**Phase Six.** 4 legislative leaders select 10 applicants each from the initial applicant pool and submit them to the judicial panel.

**Phase Seven.** The judicial panel selects 4 commissioners, 1 from each of the legislative leaders' pools.

**Phase Eight.** The judicial panel selects 2 commissioners from the original pool of 450 randomly selected unaffiliated voters.

Table 1 lists the 12 commissioners and how they were selected.

Table 1
Members of the Independent Legislative Redistricting Commission

	Party Affiliatio		Congression				
Name n		Residence	al District	Appointment Type			
Hunter Barnett	R	Englewood	6	Lot Process			
Heather Barry	D	Westminster	7	Legislative Leadership			
John Buckley III	R	Colorado Springs	5	Lot Process			
Kevin Fletcher	U	Golden	7	Lot Process			
Samuel Greenidge	U	Longmont	4	Lot Process			
Constance Hass	R	Trinidad	4	Legislative			
				Leadership			
Gary Horvath	D	Broomfield	2	Lot Process			
Aislinn Kottwitz	R	Windsor	2	Legislative			
				Leadership			
Amber McReynolds	U	Denver	1	Judicial Panel			
Carlos Perez	U	Colorado Springs	5	Judicial Panel			
Robin Schepper	D	Steamboat Springs	3	Lot Process			
Blanca Uzeta O'Leary	D	Springs Aspen	3	Legislative Leadership			

Below is a biography of each commissioner, provided by the commissioners themselves and posted on the commission's website.

*Hunter Barnett.* Hunter Barnett is a resident of Englewood in unincorporated Arapahoe County, representing Congressional District 6.

A native of Memphis, Hunter made his way to Colorado to attend the University of Colorado Boulder. Like many out-of-state students, he graduated and never wanted to leave.

For the past 8 years, Hunter has worked for DaVita, a Denver-based Fortune-500 health care provider, specializing in kidney dialysis and related services. He currently is a senior manager of revenue operations and has previously held various other roles at DaVita, including finance & accounting, corporate strategy & business development, and marketing & communications. Hunter began his career as a consultant for Concentrix in Broomfield, specializing in customer service experience and journey improvement.

Outside of work, Hunter enjoys everything our great state has to offer outdoors and passionately roots for the Buffs, Rockies, Broncos, and Boulder-based EF Education–Nippo Pro Cycling Team. Hunter is married to Natalie, a Colorado native and accountant, who is currently working as OptumCare's regional controller for the Pacific Northwest. In January 2020, Hunter and Natalie welcomed their first son, James, who is protected by and chases after their three-year-old shih tzu, Rudy. The Barnetts are parishioners at Holy Ghost Catholic Church in Denver.

Hunter holds a Bachelor of Science in Business Administration with an emphasis in finance from the University of Colorado Boulder and an MBA with an emphasis in strategy from Northwestern University's Kellogg School of Management.

Inspired by Alexander Hamilton's words, "I have thought it my duty to exhibit things as they are, not as they ought to be", Hunter looks forward to working for all Coloradans, regardless of political affiliation and geographic location, to promote and ensure a fair process and equitable outcome for legislative redistricting.

**Heather Barry.** Heather Barry is a problem solver and bridge builder serving as Vice President of Strategic Partnerships for SSP America—a publically traded company and global leader in the business of restaurants in airports, rail stations and motorways, serving more than one million passengers daily in more than 30 countries.

Barry is a member of SSP America's Leadership Team working as a member of the Business Development team and is responsible local and federal regulatory engagement, partner relationship management, stakeholder relationships and advises the company to ensure strategic alignment for SSP's North American operations. Barry works to create and execute operational performance initiatives that enhance and advance the company's efforts in North America.

Prior to joining SSP America, Barry served as a Mayoral appointee at Denver International Airport (DEN) the nation's sixth-busiest airport. While at DEN Barry was a member of the airport leadership team where she served as Director of Government Affairs and Director of Business Affairs respectively. As Director of Business Affairs, Barry was responsible for creating the DEN Commerce Hub—a first of its kind office in the aviation industry. The office served as a central point for businesses, large and small alike, to tap into resources and become a part of business opportunities at DEN. During her tenure, Barry made it her mission to grow business inclusion efforts, resulting in the Federal Aviation Administration awarding Barry with the Disadvantaged Business Enterprise Advocate and Partner Award for her work with the Denver business community.

Barry has served as an appointee to Denver Mayors Michael B. Hancock, Guillermo "Bill" Vidal and John Hickenlooper where she held the positions of Director of Government Affairs, Director of Legislative Services, Director of Neighborhood Relations and City Council Liaison, respectively.

A graduate of the University of Washington, Barry holds a bachelor's degree in communications and a master's degree in public administration from The Evergreen State College and a professional certificate from Harvard University's Kennedy School of Government. Her board involvement includes ten years as a State of Colorado Transportation Commissioner, a gubernatorial appointment. Barry currently serves as Chair of the Airport Minority Advisory Council Foundation and Vice Chair of the Colorado Black Chamber of Commerce. Barry resides with her husband Damon and their daughters London and Alexis in Westminster, Colorado.

**John Buckley III.** John Buckley is a United States Air Force Academy graduate who flew fighters and taught political science at the Academy. After ten years of active duty, he graduated from Harvard Law School with concentrations in corporate litigation and international law. He served on the Board of Directors of the National Lawyer's Association, as well as a member of

the Financial Planning Association. He is a founding member of WealthCounsel LLC, comprised of many of the top estate and business planning attorneys in America. He has been an international business consultant with 16 years' experience in Middle Eastern culture and business practices, as well as experience in Russia.

Mr. Buckley is an active Rotarian, and was President of the Rotary Club of Colorado Springs in 2013-14. He also served for several years on the Board of Directors of the Champions Foundation for local high school scholar athletes. He serves on two nonprofit boards presently, including the Colorado Parkinson Foundation and the Peak Executive Forum. He served for several years on the advisory board of the 4th Judicial District Veterans Trauma Court, as well as the board of the Senior Resource Council. He is a retired lieutenant colonel in the USAF Reserves, having served as a fighter pilot, intelligence officer, and culminating in service as a space test and aggressor squadron commander prior to retiring after 24+ years of commissioned service. John Buckley and his wife Melinda (a high school classmate) have six children and eleven grandchildren between them.

**Kevin Fletcher**. Kevin Fletcher is a retired CPA. He has a BS degree in accounting from Northern Illinois University and a MS degree in accounting from the University of Illinois. Kevin moved to Colorado from Illinois in 1982 with Kristine, his wife of now 37 years. His professional career includes Big 4 public accounting experience and a variety of senior level corporate roles. He has served/is serving on several city of Golden and Jefferson County boards and task forces, including Chair of the Jefferson County Audit Committee. Kevin and Kristine have two grown children, both of whom reside in Colorado.

Samuel Greenidge. Samuel Greenidge has been a resident of Colorado for the past 22 years, which represents an appreciable fraction of his life. Raised in Weld County and educated in Boulder County, he has been exposed to both sides of the political spectrum and somehow turned out as an unaffiliated moderate. As part of his studies at CU-Boulder he has made an extensive examination of how to measure fairness and detect gerrymandering in political maps using modern mathematical tools, benefiting from the research and mentorship of Professor Jeanne Clelland. He currently works as a lead instructor for the Mathnasium of Longmont tutoring center, and expects to graduate with his bachelors in pure mathematics this spring. After that he expects to be looking for a middle or high school level teaching job, so if you know of any openings feel free to let him know.

His primary concern is to protect the voting rights of every Coloradan by ensuring that the final legislative maps pass all objective measures of fairness and have neutral to no political lean.

Constance Hass. Constance (Connie) Hass was born and raised in Pueblo, Colorado. She has resided in Las Animas County with her husband Tony for 36 years and they have 2 grown children. She and her husband own a cow-calf operation near Trinidad. She is a retired Math educator of 34 years. Connie sits on the Colorado Farm Bureau Federation Board of Directors and the Southern Farm Bureau Casualty Company Board of Directors. She is currently a member of the Leadership Program of the Rockies Class of 2021 and is a proud advocate for agriculture having participated in the American Farm Bureau Women's Leadership Bootcamp. She is a math mentor for new or young math teachers in the southern part of Colorado. Connie has a Bachelor's degree in Mathematics and a Master's degree in teaching.

*Gary Horvath.* For nearly three decades, Gary Horvath has conducted high-profile business, economic, and market research for Colorado business and government leaders, policymakers, and economic developers.

Gary managed projects that touched most industries. Much of his research included annual employment forecasts of the state economy, economic indices, and monthly updates. Also, he directed three statewide studies that evaluated workforce development and the competencies of all 64 county economies.

Most notably, he was the principal investigator for a federally funded roadmap for the Colorado nanotechnology cluster. He also helped establish the Colorado Photonics Industry Association and has been a board member since its inception.

Currently, Gary is the committee lead for the electronics/photonics cluster of OEDIT's Advanced Industry early-stage and proof of concept grant program. He is also on the board for Adams County Regional Economic Partnership (formerly ACED). Previously he was a board member for the Economic Development Council of Colorado, Northwest Denver Business Partnership, and Broomfield Economic Development Corporation.

Finally, Gary helped found the Business of Sports program at the University of Colorado and has served in leadership positions in the tennis and platform tennis industries.

Gary has close ties to the state. His grandparents homesteaded in the southwest corner of Colorado in 1913. He has lived in Durango and Broomfield and attended college in Colorado and Oregon. He and his wife have lived in Broomfield for over twenty years and are proud of their daughters who attend Colorado State University.

**Aislinn Kottwitz.** Aislinn Kottwitz, RN CCRN, has significant experience in healthcare and serving her community.

Aislinn has been a nurse for almost 20 years serving patients in Northern Colorado as an intensive care nurse and now serves in an administrative role for a rehabilitation hospital. Aside from her medical career and raising two daughters, she simultaneously found herself immersed in public policy and serving her community. She has volunteered and managed campaigns from local city council races to congressional campaigns and state-wide ballot initiatives. She was elected in to the Fort Collins City Council in 2009. This opportunity afforded her the pleasure of working seamlessly with opposing viewpoints to accomplish the goal of serving the citizens. She not only balanced an over \$300 million dollar budget, but was amongst the first to create unprecedented policy surrounding the legalization of marijuana. The breadth of issues and collaboration on the local level continued to drive her involvement.

Aislinn's community experience includes being Vice Chairman of Poudre Fire Authority and member of the Ethics Review Board for the City of Fort Collins. She has served on the Board of Directors for Liberty Common School for 7 years. Her leadership on natural resources, energy, and agriculture on the federal level allowed for influence over policy on issues near to her heart having grown up in a farming and ranching family in Southeastern Colorado.

Amber McReynolds. Commissioner Amber McReynolds is one of the country's leading experts on election administration and policy. Commissioner McReynolds was recently confirmed by the United States Senate to serve as a governor for the United States Postal Service, is the coauthor of the book "When Women Vote", is the founding CEO for the National Vote At Home Institute and Coalition, and is the former Director of Elections for Denver, Colorado. Amber is an experienced election professional and is nationally recognized as an innovator. After transforming the Denver Elections Division into an award winning election office, she was also

instrumental in helping to design Colorado's pro-voter voting process which has become a national model for accessibility, security, transparency, and engagement. Amber has proven that designing pro-voter policies, voter-centric processes, and implementing technical innovations will improve the voting process for all voters.

Commissioner McReynolds serves on the National Task Force on Election Crises, the National Council on Election Integrity, Massachusetts Institute of Technology Election Data and Science Lab, Secure the Vote Advisory Board, City Year Denver Board of Directors, and Represent Women Board of Directors. Amber is excited for the opportunity to serve Colorado and ensure fair representation for all. Commissioner McReynolds is a proud unaffiliated voter who lives in Congressional District 1 with her awesome children.

**Carlos Perez.** Mr. Carlos Perez of Colorado Springs (unaffiliated, CD 5) is a software engineer and has been a practitioner in the field for over 35 years. Mr. Perez started his career with IBM and worked on the team that built the onboard avionics software for the NASA Space Shuttle and Space Station manned spaceflight programs. Mr. Perez' broad industry experience includes developing software for the civil, military, financial, medical, insurance, non-profit, intellectual property, and commercial sectors.

In 2016, he served as an expert witness on a federal patent infringement case involving database encryption technology and has previously consulted with companies concerning intellectual property matters. He has worked with several Colorado-based technology startups including one based in Boulder that is currently developing a prototype of a non-partisan voter engagement app that spun-off from the Colorado Secretary of State's Go Code Business Data Challenge. Today Mr. Perez is creating innovative applications that span embedded systems based on open source technology to cloud-based "full-stack" web applications.

Mr. Perez brings his perspective in the STEM-related fields to serve his local community. He is a member of the Pikes Peak Rural Transportation Authority (PPRTA) Citizens Advisory Committee which advises elected officials on multimodal transportation policy and provides fiscal oversight of the designated 1% sales and use tax. He is also a member of a citizen-led neighborhood group working with the City Council to explore how to address the inequities in the property tax structure of the Briargate Special Improvement Maintenance District that maintains the neighbor trails and common areas.

As a council-appointed member of the Colorado Springs Districting Process Advisory Committee in 2020, he represented the fastest growing City Council district of over 81,000 people-- a population slightly larger than Loveland. His role included soliciting input on the proposed City Council boundaries, conducting the public outreach meeting, and synthesizing the comments for the committee report that was submitted to the City Clerk of Colorado Springs. He also worked with his fellow committee members and studied maps of demographic information to ensure that neighborhoods with a higher number of ethnic minorities were fairly represented in the recommendations for redistricting.

In his personal life, Mr. Perez is an Assistant Scoutmaster with his Boy Scout troop to continue the traditions he learned as an Eagle Scout. He is a recreational runner and in 2017 completed the Colfax Marathon to support the Blue Knights Drum and Bugle Corp based in Denver. He also rides with the local Young Life bike team to support their youth ministries. He loves all things outdoors and enjoys hiking and exploring parks. As a father of a son with a disability, he is active in Achilles Pikes Peak which is an organization that guides athletes with physical and cognitive disabilities. As an adherent of "8-80 cities" that serve people from ages 8 to 80, he

serves on the executive committee with Bike Colorado Springs (a fiscally-sponsored organization of the Trails and Open Space Coalition) to make urban bicycling in the Pikes Peak region better for all ages and abilities.

Mr. Perez has a B.A. degree in Computer Science from the University of Texas at Austin and a M.S. degree in Studies of the Future from the University of Houston at Clear Lake.

**Robin Schepper.** Robin Schepper uses her background in public policy, communications, events and campaigns to develop comprehensive strategies for her clients. She is an experienced and dedicated manager who develops communications and public affairs strategies; facilitates meetings and retreats; trains and coaches executives; provides organizational and communications counsel and writes numerous types of documents for her clients.

Over the past 25 years, Robin has worked in many arenas. She worked on three Democratic presidential campaigns and in the Clinton Administration, organizing trips and events like the 1997 G-8 Summit and the 50th Anniversary of NATO. She was a small business owner, cofounding Pyramid Communications, a Seattle-based public affairs company that specializes in environmental, health and Native American issues. She served as staff director for the Senate Democratic Technology and Communications Committee under Senator Daschle working with the Democratic Caucus on their TV, Radio and Internet strategies. Robin spent four years working as a consultant to the Athens 2004 Olympic Games providing communications expertise; building their press office; and serving as a spokesperson and advisor to the President of the Athens Olympic Organizing Committee. Robin also was the first Executive Director of First Lady Michelle Obama's children's anti-obesity initiative, *Let's Move!* 

Robin's past and present clients at her firm Wayfinder Strategies include the Bipartisan Policy Center, the Office of Military Community and Family Policy at the Department of Defense, the Aspen Institute, the Walton Foundation, the National Wildlife Federation, Historic Routt County, the Yampa Valley Community Foundation and Routt County. Robin is a public speaker and was instrumental in the writing of the report, <u>Lots to Lose: How America's Health and Obesity Crisis Threatens America's Future</u> and The Healthy Base Initiative. She lives in Colorado with her husband and two sons.

Blanca Uzeta O'Leary. Blanca Uzeta O'Leary is a solo-practitioner attorney. She earned a political science degree and a Juris Doctorate from the University of Texas. Blanca is an active community volunteer who has served on numerous non-profit boards and organizations located in the Roaring Fork Valley of the Western Slope and elsewhere, including Alpine Legal Services (former board chair), the Aspen Youth Center, the Aspen Valley Medical Foundation, the Aspen Words Board, PEN International, San Miguel de Allende Center, and Voces Unidas de las Montañas (currently board chair). Blanca also served on several Advisory Committees at the Aspen School District and proudly chaired the successful bond election for the construction of the new Aspen Middle School.

Blanca was appointed to former Governor John Hickenlooper's judicial performance commission and currently sits on Governor Jared Polis' judicial nominations commission. Additionally, she has extensive experience in Democratic organizing and grassroots campaigning including decades of work with the Pitkin County Democratic Party (former Chair), as an at-Large DNC member appointed by President Obama, as Co-Chair of Governor Polis' Inaugural Committee and as chair of Boldly Forward.

Blanca believes Colorado continually strives to organize its institutions to be fair, just, and diverse. She is pleased to bring with her to the committee the experiences of her life stemming from her ethnic and cultural background, as well as her geographical diversity. Blanca lives in Aspen with her husband Cavanaugh and her son, also named Cavanaugh.

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 3

Commission Meetings and Public Hearings

## Meetings and Public Hearings of the Colorado Independent Legislative Redistricting Commission

The Colorado Independent Legislative Redistricting Commission first convened March 30, 2021. Since then the full commission has met 45 times and held 35 public hearings. The list and table below detail these meetings.

Staff summaries of meetings, meeting audio, and meeting materials are available on the commission's website: https://redistricting.colorado.gov/content/meeting-summaries

#### Meeting Dates and Times:

- March 30, 2021, 8:00 AM
- April 9, 2021, 2:00 PM
- April 16, 2021, 1:00 PM
- April 23, 2021,1:00 PM
- April 30, 2021,1:00 PM
- May 7, 2021,1:00 PM
- May 14, 2021,1:00 PM
- May 21, 2021,1:00 PM
- May 28, 2021,1:00 PM
- June 4, 2021, 1:00 PM
- June 11, 2021, 1:00 PM
- June 18, 2021,1:00 PM
- June 25, 2021,1:00 PM
- June 29, 2021, 8:00 AM
- July 2, 2021, 1:00 PM
- July 16, 2021, 1:00 PM
- July 13, 2021, 1:00 PM
- August 13, 2021,1:00 PM
- August 27, 2021,1:00 PM
- September 3, 2021,1:00 PM
- September 7, 2021, 4:00 PM
- September 10, 2021, 1:00 PM
- September 14, 2021,12:00 PM
- September 16, 2021, 6:00 PM
- September 17, 2021, 1:00 PM
- September 17, 2021, 6:00 PM
- September 18, 2021, 10:00 AM
- September 18, 2021, 6:00 PM
- September 19, 2021, 12:00 PM
- September 21, 2021, 6:00 PM
- September 24, 2021, 1:00 PM
- September 24, 2021, 6:00 PM

- September 26, 2021, 1:00 PM
- September 27, 2021, 6:00 PM
- September 29, 2021, 6:00 PM
- October 1, 2021, 1:00 PM
- October 5, 2021, 6:00 PM
- October 6, 2021, 5:00 PM
- October 6, 2021, 6:00 PM
- October 7, 2021, 6:00 PM
- October 8, 2021, 1:00 PM
- October 9, 2021, 9:00 AM
- October 10, 2021, 1:00 PM
- October 11, 2021, 6:00 PM
- October 12, 2021, 6:00 PM

#### Joint Public Hearings with Congressional Commission:

Time	Location
7:00 PM	Lamar
11:00 AM	Burlington
7:00 PM	Sterling
7:00 PM	Arvada
7:00 PM	Denver
12:00 PM	Fort Collins
7:00 PM	Lakewood
7:00 PM	Englewood
7:00 PM	Steamboat Springs
11:00 AM	Craig
7:00 PM	Denver
7:00 PM	Aurora
11:00 AM	Montrose
7:00 PM	Grand Junction
11:00 AM	Carbondale
7:00 PM	Frisco
7:00 PM	Centennial
7:00 PM	Golden
11:00 AM	Trinidad
7:00 PM	Alamosa
1:00 PM	Durango
7:00 PM	Longmont
7:00 PM	Boulder
12:00 PM	Greeley
7:00 PM	Highlands Ranch
11:00 AM	Woodland Park
7:00 PM	Pueblo
11:00 AM	Canon City
7:00 PM	Buena Vista
7:00 PM	Commerce City
7:00 PM	Brighton
	7:00 PM 11:00 AM 7:00 PM 11:00 AM 7:00 PM

August 28, 2021 7:00 PM	Colorado Springs
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#### Virtual Public Hearings on the First Staff Plans:

- September 17, 2021, 6:00 PM September 18, 2021, 10:00 AM September 18, 2021, 6:00 PM

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 4

House District Descriptions and Information

District 1 is within the City and County of Denver, and includes the whole Bear Valley, College View – South Platte, Fort Logan, Harvey Park, Harvey Park South, Mar Lee, Marston, Ruby Hill, and Overland Denver neighborhoods, and a portion of the Westwood Denver neighborhood.

#### District 2

District 2 is within the City and County of Denver, and includes the whole Belcaro, Cherry Creek, Country Club, Cory – Merrill, Platt Park, Rosedale, Speer, University, University Park, Washington Park, West Washington Park, and Wellshire Denver neighborhoods, and a portion of the Hilltop Denver neighborhood.

#### District 3

District 3 includes whole Cherry Hills Village, Englewood, and Sheridan in Arapahoe County; a portion of Aurora in Arapahoe County; and a portion of the City and County of Denver. The portion of Denver includes the whole Hampden South, Kennedy, and Southmoor Park Denver neighborhoods, and a portion of the Hampden Denver neighborhood.

#### District 4

District 4 is within the City and County of Denver, and includes the whole Barnum, Barnum West, Berkeley, Jefferson Park, Regis, Sloan Lake, Sun Valley, Villa Park, West Colfax, and West Highland Denver neighborhoods, and portions of the Highland, Sunnyside, and Westwood Denver neighborhoods.

#### Denver 5

District 5 is within the City and County of Denver, and includes the whole Athmar Park, Auraria, Baker, Central Business District, Chaffee Park, Civic Center, Elyria Swansea, Globeville, Lincoln Park, Union Station, and Valverde Denver neighborhoods, and portions of the Cole, Five Points, Highland, and Sunnyside Denver neighborhoods.

#### District 6

District 6 is within the City and County of Denver, and includes the whole Cheesman Park, Congress Park, Hale, Montclair, North Capitol Hill, and Windsor Denver neighborhoods, and portions of the Capitol Hill, East Colfax, and Lowry Field Denver neighborhoods.

District 7 is within the City and County of Denver, and includes the whole Denver International Airport, Gateway – Green Valley Ranch, and Montbello Denver neighborhoods, and a portion of the Central Park Denver neighborhood.

#### District 8

District 8 is within the City and County of Denver, and includes the whole City Park, City Park West, Clayton, North Park Hill, Northeast Park Hill, South Park Hill, and Whittier Denver neighborhoods, and portions of the Central Park, Cole, East Colfax, and Five Points Denver neighborhoods.

#### District 9

District 9 includes whole Glendale in Arapahoe County and a portion of the City and County of Denver. The portion of Denver includes the whole Goldsmith, Indian Creek, University Hills, Virginia Village, and Washington Virginia Vale Denver neighborhoods, and portions of the Hampden, Hilltop, and Lowry Field Denver neighborhoods.

#### District 10

District 10 is in Boulder County, and includes the eastern portion of the City of Boulder.

#### District 11

District 11 is in Boulder County, and includes the western portion of Longmont.

#### District 12

District 12 is in Boulder County, and includes whole Lafayette, Louisville, and Niwot, and the whole population of Superior.

#### District 13

District 13 includes whole Grand County, Jackson County, Lake County, Park County, and Summit County; and whole Buena Vista, Poncha Springs, and Salida in Chaffee County.

District 14 is in El Paso County and includes a portion of Colorado Springs. It includes whole Briargate West, Cordera, Flying Horse Ranch, Gatehouse, Interquest, Kettle Creek, Mountain Shadows, Peregrine, Pine Creek, Pinecliff, Northgate, Rockrimmon, Summerfield, The Farm, and Wolf Ranch Colorado Springs neighborhoods, and portions of Falcon Estates, Garden of the Gods/Pleasant Valley, Old Colorado City, Pulpit Rock, and Woodmen Heights/Dublin North Colorado Springs neighborhoods.

#### District 15

District 15 is in El Paso County and includes a portion of Colorado Springs. The portion of Colorado Springs includes the whole BLR Villages, Ridgeview, Springs Ranch, and Stetson Hills Colorado Springs neighborhoods, and portions of the Banning Lewis Ranch, Cottonwood Creek, and Woodmen Heights/Dublin North Colorado Springs neighborhoods.

#### District 16

District 16 is in El Paso County and includes a portion of Colorado Springs. It includes whole Austin Estates, Cragmoor, Divine Redeemer, Garden Ranch, Kitty Hawk/Bonnyville, Knob Hill, North Nevada/The Studio, Old North End, Palmer Heights, Palmer Park, Patty Jewett, Rosswell, Rustic Hills, and Wasson Colorado Springs neighborhoods, and portions of the East Lake, Eastborough, Middle Shooks Run, Park Hill, and Pulpit Rock Colorado Springs neighborhoods.

#### District 17

District 17 is in El Paso County and includes a portion of Colorado Springs. The portion of Colorado Springs includes the whole Airport, Deerfield Hills, Gateway Park, Pikes Peak Park North, Pikes Peak Park South, Soaring Eagles, Southborough, and Valley Hi Colorado Springs neighborhoods, and portions of the Downtown, East Lake, Eastborough, Hillside, Park Hill, Quail Lake, and Stratton Meadows Colorado Springs neighborhoods.

#### District 18

District 18 includes whole Green Mountain Falls in El Paso County and Teller County, and Manitou Springs and a portion of Colorado Springs in El Paso County. The portion of Colorado Springs includes the whole Broadmoor Bluffs, Broadmoor Hills, Broadmoor Oaks, Cedar Heights, Gold Hill Mesa, Holland Park, Ivywild, Kissing Camels, Lower Skyway, Mesa, Mesa Springs, Midland, Old Broadmoor, Upper Skyway, and Westside Colorado Springs neighborhoods, and portions of the Downtown, Garden of the Gods/Pleasant Valley, Old Colorado City, Middle Shooks Run, Quail Lake, and Stratton Meadows Colorado Springs neighborhoods.

District 19 is in Boulder County and Weld County, and includes whole Dacono, Firestone, and Frederick; the whole population of Erie; and portions of Longmont and Northglenn.

District 20

District 20 is in El Paso County, and includes whole Monument and Palmer Lake.

District 21

District 21 is in El Paso County, and includes whole Fort Carson and Fountain.

District 22

District 22 is in El Paso County and includes a portion of Colorado Springs. It includes the whole Briargate, Fairfax, Old Farm, Sunset Mesa, Village Seven, Vista Grande, and Villa Loma Colorado Springs neighborhoods, and portions of the Cottonwood Creek and Falcon Estates Colorado Springs neighborhoods.

District 23

District 23 is in Jefferson County, and includes whole Lakeside, Mountain View, and Wheat Ridge, and a portion of Lakewood.

District 24

District 24 is in Adams County and Jefferson County, and includes a portion of Arvada.

District 25

District 25 is in Jefferson County, and includes whole Morrison and a portion of Littleton.

District 26

District 26 includes whole Moffat County, Rio Blanco County, and Routt County; and whole Avon, Eagle, Gypsum, Minturn, Red Cliff, and Vail in Eagle County.

District 27
District 27 is in Jefferson County, and includes whole Golden and a portion of Arvada.
District 28
District 28 is in Jefferson County, and includes a portion of Lakewood.
District 29
District 29 is in Adams County and Jefferson County, and includes a portion of Westminster.
District 30
District 30 is in Jefferson County, and includes whole Edgewater and a portion of Lakewood.
District 31
District 31 is in Adams County, and includes a portion of Thornton.
District 32
District 32 is in Adams County, and includes whole Commerce City.
District 33
District 33 is in Adams County and Broomfield County, and includes the whole population of the City and County of Broomfield and a portion of Thornton.
District 34
District 34 is in Adams County, and includes portions of Northglenn and Thornton.

District 35 is in Adams County and Jefferson County, and includes whole Federal Heights and portions of Thornton and Westminster.

District 35

District	36
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District 36 is in Adams County and Arapahoe County, and includes a portion of Aurora.

#### District 37

District 37 is in Arapahoe County, and includes whole Foxfield and Greenwood Village, and portions of Aurora and Centennial.

#### District 38

District 38 is in Arapahoe County and Jefferson County, and includes whole Bow Mar and Columbine Valley, and portions of Centennial and Littleton.

#### District 39

District 39 is in Douglas County, and includes whole Castle Pines, Larkspur, and Lone Tree, and a portion of Highlands Ranch.

#### District 40

District 40 is in Arapahoe County, and includes a portion of Aurora.

#### District 41

District 41 is in Arapahoe County, and includes a portion of Aurora.

#### District 42

District 42 is in Arapahoe County, and includes a portion of Aurora.

#### District 43

District 43 is in Douglas County, and includes portions of Highlands Ranch and Littleton.

#### District 44

District 44 is in Douglas County, and includes whole Parker.

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District 45 is in Douglas County, and includes whole Castle Rock.

#### District 46

District 46 is in Pueblo County, and includes whole Rye and a portion of Pueblo.

#### District 47

District 47 includes whole Baca County, Bent County, Crowley County, Kiowa County, Las Animas County, Otero County, and Prowers County; whole La Veta and Walsenburg in Huerfano County; and whole Boone and a portion of Pueblo West in Pueblo County.

#### District 48

District 48 is in Adams County and Weld County, and includes whole Brighton, Fort Lupton, Gilcrest, Hudson, Keenesburg, Kersey, La Salle, Lochbuie, and Platteville.

#### District 49

District 49 includes whole Clear Creek County and Gilpin County; and whole Jamestown, Lyons, Nederland, and Ward, and the western portion of the City of Boulder in Boulder County.

#### District 50

District 50 is in Weld County, and includes whole Garden City, the whole population of Evans, and a portion of Greeley.

#### District 51

District 51 is in Larimer County, and includes whole Loveland.

#### District 52

District 52 is in Larimer County, and includes a portion of Fort Collins.

#### District 53

District 53 is in Larimer County, and includes a portion of Fort Collins.

District 54 is in Delta County and Mesa County, and includes whole Cedaredge, Collbran, De Beque, Delta, Fruita, Orchard City, and Palisade, and a portion of Grand Junction.

#### District 55

District 55 is in Mesa County, and includes a portion of Grand Junction.

#### District 56

District 56 includes whole Cheyenne County, Elbert County, Kit Carson County, and Lincoln County; whole Bennett in Adams County; whole Bennett and Deer Trail in Arapahoe County, a portion of Aurora in Arapahoe County; and whole Calhan and Ramah in El Paso County.

#### District 57

District 57 includes whole Garfield County and Pitkin County, and whole Basalt in Eagle County.

#### District 58

District 58 includes and whole Dolores County, Gunnison County, Hinsdale County, Montrose County, Ouray County, and San Miguel County; the northwestern portion of Montezuma County; and whole Crawford, Hotchkiss, and Paonia in Delta County.

#### District 59

District 59 includes whole Archuleta County, La Plata County, and San Juan County; and whole Cortez, Dolores, and Mancos in Montezuma County.

#### District 60

District 60 includes whole Custer County and Fremont County; the southeastern portion of Chaffee County; a portion of Pueblo West in Pueblo County; and whole Cripple Creek, Victor, and Woodland Park in Teller County.

#### District 61

District 61 is in Arapahoe County and Douglas County, and includes portions of Aurora and Centennial.

District 62 includes whole Alamosa County, Conejos County, Costilla County, Mineral County, Rio Grande County, and Saguache County; the southeastern portion of Huerfano County; and a portion of Pueblo in Pueblo County.

#### District 63

District 63 includes whole Logan County, Morgan County, Phillips County, Sedgwick County, Washington County, and Yuma County; and whole Ault, Grover, Nunn, Pierce, Raymer (New Raymer) in Weld County.

#### District 64

District 64 is in Larimer County and Weld County, and includes whole Berthoud, Mead, and Milliken, and portions of Greeley and Johnstown.

#### District 65

District 65 is in Larimer County and Weld County, and includes whole Timnath, Wellington, Windsor, Eaton, and Severance, and a portion of Johnstown.

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 5

Senate District Descriptions and Information

October 14, 2021

#### **District Descriptions of the Final Approved State Senate Plan**

**Senate District 1** consists of the following whole counties in northeastern Colorado: Logan, Morgan, Phillips, Sedgwick, Washington, and Yuma. Much of Weld County is also in this district, including western Greeley.

**Senate District 2** is wholly contained in Douglas County and includes the cities of Castle Rock and Parker.

**Senate District 3** is all of Pueblo County and no additional areas.

**Senate District 4** consists of the following whole counties in Colorado's central mountains: Chaffee, Custer, Fremont, Lake, and Park. It also contains most of Teller County except the town of Green Mountain Falls, a portion of Douglas County, mostly unincorporated but including the town of Larkspur, and a portion of unincorporated Jefferson County.

**Senate District 5** consists of the whole counties of Gunnison, Hinsdale, and Pitkin. It also includes portions of Delta, Eagle, Garfield, and Montrose Counties. This district keeps the following Roaring Fork Valley communities together as a commission priority: Aspen, Basalt, Carbondale, El Jebel, Glenwood Springs, New Castle, Parachute, Rifle, and Silt. The split of Garfield County mostly follows I-70, pulling in all of the listed towns. In Montrose County, the whole municipalities of Montrose and Olathe are in SD5. Only the southwest corner of Eagle County in the Roaring Fork School District is in SD5, and most of Delta County is in the district, except the town of Cedaredge.

**Senate District 6** consists of the following whole counties: Alamosa, Archuleta, Conejos, Costilla, Dolores, La Plata, Mineral, Montezuma, Ouray, Rio Grande, Saguache, San Juan, and San Miguel. It also contains the western portion of Montrose County, including the towns of Naturita and Nucla. This district keeps the six counties of the San Luis Valley together pursuant to commission priority.

**Senate District 7** is primarily made up of Mesa County, but includes the town of Cedaredge in Delta County.

**Senate District 8** consists of the following whole counties in northwestern Colorado: Clear Creek, Gilpin, Grand, Jackson, Moffat, Rio Blanco, Routt, and Summit. It also contains most of Eagle County, including Avon, Eagle, Edwards Gypsum, Minturn, Red Cliff, and Vail, and the unincorporated northern portion of Garfield County. It includes ski tourism areas in Eagle, Grand, Routt, and Summit Counties, which the commission identified as a community of interest.

**Senate District 9** is one of four districts wholly contained in El Paso County. It covers the northwest corner of the county, including the towns of Monument and Palmer Lake and a portion of Colorado Springs.

**Senate District 10** is in the east central area of Colorado Springs and includes some unincorporated enclaves of El Paso County. Seventeen defined Colorado Springs neighborhoods are included in this district, and it is bordered largely by Woodmen Road to the north, Constitution Avenue to the south, I-25 to the west, and Highway 24 to the east.

**Senate District 11** is the southeastern part of Colorado Springs, including eighteen defined whole neighborhoods and the Colorado Springs airport. The Harrison School District is included in this district.

**Senate District 12** includes some of downtown and western Colorado Springs, as well as Green Mountain Falls, Manitou Springs, Security-Widefield, Fountain, and Fort Carson.

**Senate District 13** extends from Brighton in Adams County to eastern Greeley in Weld County and includes the Weld County municipalities of Evans, Fort Lupton, Garden City, Gilcrest, La Salle, and Platteville. It also includes a small portion of unincorporated Adams County near Brighton.

**Senate District 14** includes most of the city of Fort Collins and some of unincorporated Larimer County to the north.

**Senate District 15** includes parts of western Boulder and Larimer Counties. In Larimer County the municipalities of Estes Park, Loveland, Red Feather Lakes, and Wellington are in the district. In Boulder County, the municipalities of Jamestown, Lyons, Nederland, and Ward are included.

**Senate District 16** is based in south suburban Denver in both Arapahoe and Jefferson Counties. It includes part of the city of Centennial west of South Quebec Street, the town of Bow Mar in Arapahoe and Jefferson Counties, most of the city of Littleton in Arapahoe and Jefferson Counties, and the Columbine and Ken Caryl areas of Jefferson County.

**Senate District 17** is primarily based in eastern Boulder County but includes parts of Weld County to keep the cities of Erie and Longmont intact. It also contains the city of Lafayette in Boulder County. This district includes zero-population blocks of the City and County of Broomfield necessary to keep Boulder County blocks within the district.

**Senate District 18** is wholly contained in Boulder County and includes the municipalities of Boulder, Louisville, and Superior.

**Senate District 19** is based in Arvada, including parts in both Jefferson and Adams Counties, and it also includes all the portions of Westminster in Jefferson County.

**Senate District 20** is wholly contained in Jefferson County and includes far western Arvada, southwestern Lakewood, Morrison, and several unincorporated communities in both the foothills and the Denver metro area.

**Senate District 21** is primarily in Adams County but also includes eastern Arapahoe County, including Bennett and Strasburg in Adams and Arapahoe Counties and Deer Trail in Arapahoe

County. In western Adams County, the district contains, all of Commerce City, southern Westminster, and areas of unincorporated Adams County north of the Denver border.

**Senate District 22** is wholly contained in Jefferson County and includes western and northern Lakewood and all of Edgewater, Golden, and Wheat Ridge.

**Senate District 23** extends along the border between Weld and Larimer Counties. It includes the whole municipalities of Berthoud, Dacono, Firestone, Frederick, Johnstown, Mead, Milliken, Timnath, and Windsor, several of which have portions in both Larimer and Weld Counties. It also includes some of Fort Collins to the east of Timberline Road, Ziegler Road, and I-25.

**Senate District 24** is wholly contained in Adams County and includes the whole cities of Federal Heights and Thornton.

**Senate District 25** is made up of the City and County and Broomfield, and Adams County portions of Westminster and Northglenn.

**Senate District 26** includes most of five Denver neighborhoods in the far southwest and southeast areas of the city, as well as the Arapahoe County cities of Cherry Hills Village, Englewood, Greenwood Village, and Sheridan, and some unincorporated areas along the eastern border with Denver.

**Senate District 27** is primarily an Arapahoe County district containing Centennial east of South Quebec Street and southern Aurora. It also includes sections of Aurora that are in Douglas County.

**Senate District 28** is mostly the city of Aurora and surrounding areas in both Adams and Arapahoe Counties. It extends east past the Colorado Air and Space Port to reach Aurora's eastern borders and south to East Quincy Avenue.

**Senate District 29** is wholly within Aurora and Arapahoe County. Its boundaries are mostly along East Alameda Avenue to the north, East Quincy Avenue to the south, South Tower Road to the east, and the Aurora border to the west.

**Senate District 30** is wholly contained in Douglas County and includes the cities of Castle Pines and Lone Tree, as well as Highlands Ranch and Roxborough Park.

**Senate District 31** is one of three districts that are entirely within the City and County of Denver. The district includes nineteen whole neighborhoods in central and east Denver.

**Senate District 32** is a primarily Denver district that includes nineteen whole Denver neighborhoods and several enclaves of Arapahoe County, including Glendale and Holly Hills, that are entirely surrounded by Denver.

**Senate District 33** is a northeast Denver district covering 11 whole neighborhoods that extends from Denver International Airport and the city's furthest east neighborhoods into near northeast Denver.

**Senate District 34** is a Denver district covering 22 whole neighborhoods on Denver's west and north sides.

**Senate District 35** includes eastern El Paso County and the following whole counties in southeastern Colorado: Baca, Bent, Cheyenne, Crowley, Elbert, Huerfano, Kiowa, Kit Carson, Las Animas, Lincoln, Otero, and Prowers. The district keeps Huerfano and Las Animas Counties together pursuant to commission priorities.

## Attachment A Sequencing of Senate District Elections

Pursuant to Section 2-2-503, C.R.S., staff provides the following designation of senatorial districts from which state senators will be elected in 2022 and 2024 under the Third Staff Plan.

Holdover senators are entitled by law to serve the remainder of their terms. The 18 senators elected in 2020, therefore, retain their seats, and the districts in which they reside must be designated for elections in 2024. This applies to the following districts in the Third Staff Plan:

- 2;
- 5;
- 6;
- 10;
- 12;
- 13;
- 14;
- 16;
- 17;
- 18;
- 19;
- 21;
- 23;
- 26;
- 28;
- 29;
- 31; and
- **3**3.

The remaining 17 districts are therefore designated for elections in 2022. This applies to the following districts in the Third Staff Plan:

- 1;
- 3;
- 4;
- 7;
- 8:
- 9;
- 11;
- 15;
- 20;
- 22;
- 24;
- 25;
- 27;
- 30;
- 32;
- 34; and
- 35.

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 6

Sequencing of Senate District Elections

#### **Sequencing of Senate District Elections**

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- 27;
- 30;
- 32;
- 34; and
- 35.

In re Colorado Independent Legislative Redistricting Commission

## Exhibit 7

Population Charts for House and Senate

# Colora**do Independent** Redistr**icting Commissions**

## **Population Summary Report** *Plan: 2021 Final Approved Senate Plan*

District	Population	Target Deviation	Target Deviation (%)	Hispanic	Non- Hispanic	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/ Alaskan	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific	Non-Hispanic some other race	Non-Hispanic two or more minority race
1	161,220	-3,743	-2.27	39,655	121,565	111,849	1,983	622	1,321	124	539	5,127
				24.6%	75.4%	69.4%	1.2%	0.4%	0.8%	0.1%	0.3%	3.2%
2	167,200	2,237	1.36	17,859	149,341	130,711	2,479	459	6,171	175	734	8,612
				10.7%	89.3%	78.2%	1.5%	0.3%	3.7%	0.1%	0.4%	5.2%
3	168,122	3159	1.91	70,143	97,979	85,326	2,921	1,265	1556	138	944	5,829
				41.7%	58.3%	50.8%	1.7%	0.8%	0.9%	0.1%	0.6%	3.5%
4	167,757	2,794	1.69	14,723	153,034	140,111	1,711	1,110	1,372	97	929	7,704
	100 100	1007		8.8%	91.2%	83.5%	1.0%	0.7%	0.8%	0.1%	0.6%	4.6%
5	163,126	-1837	-1.11	36,432	126,694	117,063	659	746	1,416	89	853	5,868
	101 105	0.470	0.44	22.3%	77.7%	71.8%	0.4%	0.5%	0.9%	0.1%	0.5%	3.6%
6	161,485	-3,478	-2.11	34,631	126,854	110,802	700	6,819	1,038	96	885	6,514
-	404.000	0000	0.00	21.4%	78.6%	68.6%	0.4%	4.2%	0.6%	0.1%	0.5%	4.0%
7	161,633	-3330	-2.02	23,755	137,878	125,873	1049	977	1,632	191	917	7,239
	161,606	-3,357	-2.04	14.7%	85.3%	77.9%	0.6% 928	0.6%	1.0%	0.1%	0.6%	4.5%
8	161,606	-3,357	-2.04	29,153 18.0%	132,453	123,456		555	1,523	108	662	5,221
9	164,770	-193	-0.12	16,966	82.0% 147,804	76.4% 125,107	0.6% 4487	0.3% 587	0.9% 6,843	0.1% 247	0.4% 1056	3.2% 9,477
9	104,770	-193	-0.12	10,966	89.7%	75.9%	2.7%		4.2%		0.6%	5.8%
10	168,724	3,761	2.28	27,680	141,044	114,298	8,172	0.4% 856	5,280	0.1% 438	978	11,022
10	100,724	3,701	2.20	16.4%	83.6%	67.7%	4.8%	0.5%	3.1%	0.3%	0.6%	6.5%
11	167,144	2181	1.32	49,218	117,926	82,468	16810	1232	4,553	938	1064	10,861
1.1	107,144	2101	1.32	29.4%	70.6%	49.3%	10.1%	0.7%	2.7%	0.6%	0.6%	6.5%
12	169,103	4,140	2.51	29,077	140,026	111,535	10,406	905	4,055	1023	1,064	11,038
12	103,103	7,170	2.51	17.2%	82.8%	66.0%	6.2%	0.5%	2.4%	0.6%	0.6%	6.5%
13	162,191	-2772	-1.68	74,658	87,533	74,322	3438	825	2,912	209	695	5,132
10	102,131	2112	1.00	46.0%	54.0%	45.8%	2.1%	0.5%	1.8%	0.1%	0.4%	3.2%
14	160,983	-3,980	-2.41	20,786	140,197	123,932	2,141	709	4,842	145	804	7,624
1-7	100,903	-3,900	-2.41	12.9%	87.1%	77.0%	1.3%	0.4%	3.0%	0.1%	0.5%	4.7%
15	160,877	-4086	-2.48	17,959	142,918	131,525	964	655	1,699	105	863	7,107
10	100,077	4000	2.40	11.2%	88.8%	81.8%	0.6%	0.4%	1.1%	0.1%	0.5%	4.4%
16	166,292	1,329	0.81	18,063	148,229	132,924	1,697	521	4,634	108	770	7,575
10	100,232	1,020	0.01	10.9%	89.1%	79.9%	1.0%	0.3%	2.8%	0.1%	0.5%	4.6%
17	164,918	-45	-0.03	33,702	131,216	114,447	1497	604	6,500	111	854	7,203
• •	,		0.00	20.4%	79.6%	69.4%	0.9%	0.4%	3.9%	0.1%	0.5%	4.4%
18	164,297	-666	-0.4	15,908	148,389	127,138	1,749	507	10,365	154	920	7,556
	,		• · ·	9.7%	90.3%	77.4%	1.1%	0.3%	6.3%	0.1%	0.6%	4.6%
19	164,524	-439	-0.27	26,020	138,504	122,874	1761	740	4,919	93	680	7,437
	,-		-	15.8%	84.2%	74.7%	1.1%	0.4%	3.0%	0.1%	0.4%	4.5%
20	168,082	3,119	1.89	20,364	147,718	131,485	1,460	714	5,952	100	781	7,226
				12.1%	87.9%	78.2%	0.9%	0.4%	3.5%	0.1%	0.5%	4.3%
21	169,032	4,069	2.47	83,172	85,860	69,649	3974	1033	4,783	206	727	5,488
	,			49.2%	50.8%	41.2%	2.4%	0.6%	2.8%	0.1%	0.4%	3.2%
22	162,619	-2,344	-1.42	38,011	124,608	107,516	2,943	1,234	5,015	220	904	6,776
	•	•		23.4%	76.6%	66.1%	1.8%	0.8%	3.1%	0.1%	0.6%	4.2%
23	160,874	-4089	-2.48	25,537	135,337	122,451	989	543	3,890	79	689	6,696
				15.9%	84.1%	76.1%	0.6%	0.3%	2.4%	0.0%	0.4%	4.2%
24	167,762	2,799	1.7	64,109	103,653	83,173	2,961	909	9,196	144	762	6,508
				38.2%	61.8%	49.6%	1.8%	0.5%	5.5%	0.1%	0.5%	3.9%

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District	Population	Target Deviation	Target Deviation (%)	Hispanic	Non- Hispanic	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/ Alaskan	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific	Non-Hispanic some other race	Non-Hispanic two or more minority race
25	168,652	3689	2.24	36,971	131,681	109,893	2,610	752	9,811	179	741	7,695
				21.9%	78.1%	65.2%	1.5%	0.4%	5.8%	0.1%	0.4%	4.6%
26	164,117	-846	-0.51	28,666	135,451	103,922	12,666	818	9,248	218	912	7,667
				17.5%	82.5%	63.3%	7.7%	0.5%	5.6%	0.1%	0.6%	4.7%
27	165,568	605	0.37	21,841	143,727	103,728	12,112	500	16,751	214	846	9,576
				13.2%	86.8%	62.6%	7.3%	0.3%	10.1%	0.1%	0.5%	5.8%
28	163,988	-975	-0.59	67,187	96,801	50,858	26,417	789	10,052	861	964	6,860
				41.0%	59.0%	31.0%	16.1%	0.5%	6.1%	0.5%	0.6%	4.2%
29	162,492	-2,471	-1.5	42,725	119,767	71,182	28585	718	9,004	617	964	8,697
				26.3%	73.7%	43.8%	17.6%	0.4%	5.5%	0.4%	0.6%	5.4%
30	168,526	3,563	2.16	14,848	153,678	128,853	2,165	448	13,238	107	692	8,175
				8.8%	91.2%	76.5%	1.3%	0.3%	7.9%	0.1%	0.4%	4.9%
31	164,485	-478	-0.29	18,964	145,521	121,427	9443	700	5,307	113	887	7,644
				11.5%	88.5%	73.8%	5.7%	0.4%	3.2%	0.1%	0.5%	4.6%
32	161,740	-3,223	-1.95	48,591	113,149	87,792	9,755	894	7,133	112	886	6,577
				30.0%	70.0%	54.3%	6.0%	0.6%	4.4%	0.1%	0.5%	4.1%
33	163,990	-973	-0.59	56,162	107,828	59,299	31,304	674	7,395	920	791	7,445
				34.2%	65.8%	36.2%	19.1%	0.4%	4.5%	0.6%	0.5%	4.5%
34	167,908	2,945	1.79	65,324	102,584	84,145	6,100	1,252	4,299	125	847	5,816
				38.9%	61.1%	50.1%	3.6%	0.7%	2.6%	0.1%	0.5%	3.5%
35	167,907	2944	1.78	34,530	133,377	119,529	2274	1096	1,515	201	956	7,806
				20.6%	79.4%	71.2%	1.4%	0.7%	0.9%	0.1%	0.6%	4.6%

 Total Population
 5,773,714

 Mean Deviation:
 2,476

 Largest Positive Deviation:
 4,140

 Largest Negative Deviation:
 -4,089

 Overall Range in Deviation Percentage:
 4.99

Source: Colorado Independent Redistricting Commissions Staff. October 14, 2021

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# Colorado Independent Redistricting Commissions

### **Population Summary Report** *Plan: 2021 Final Approved House Plan*

District	Population	Target Deviation	Target Deviation (%)	Hispanic	Non- Hispanic	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/ Alaskan	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific	Non-Hispanic some other race	Non-Hispanic two or more minority race
1	87,969	-857	-0.96	42,515	45,454	34,863	2325	652	4,526	76	413	2,599
				48.3%	51.7%	39.6%	2.6%	0.7%	5.1%	0.1%	0.5%	3.0%
2	88,172	-654	-0.74	6,901	81,271	72,427	1,349	200	2,885	46	422	3,942
				7.8%	92.2%	82.1%	1.5%	0.2%	3.3%	0.1%	0.5%	4.5%
3	87,498	-1328	-1.5	16,731	70,767	55,554	6009	504	3,844	136	497	4,223
				19.1%	80.9%	63.5%	6.9%	0.6%	4.4%	0.2%	0.6%	4.8%
4	87,718	-1,108	-1.25	34,936	52,782	44,350	2,444	661	1,861	65	396	3,005
				39.8%	60.2%	50.6%	2.8%	0.8%	2.1%	0.1%	0.5%	3.4%
5	86,960	-1866	-2.1	28,831	58,129	46,798	4282	655	2,610	73	504	3,207
				33.2%	66.8%	53.8%	4.9%	0.8%	3.0%	0.1%	0.6%	3.7%
6	87,264	-1,562	-1.76	11,990	75,274	58,664	8,224	412	3,279	58	436	4,201
				13.7%	86.3%	67.2%	9.4%	0.5%	3.8%	0.1%	0.5%	4.8%
7	90,537	1711	1.93	42,698	47,839	17,787	19456	322	5,473	873	395	3,533
				47.2%	52.8%	19.6%	21.5%	0.4%	6.0%	1.0%	0.4%	3.9%
8	90,282	1,456	1.64	16,248	74,034	52,079	13,871	473	2,317	59	500	4,735
	22.472	4050	4.00	18.0%	82.0%	57.7%	15.4%	0.5%	2.6%	0.1%	0.6%	5.2%
9	90,478	1652	1.86	15,054	75,424	54,961	10951	398	3,865	85	590	4,574
				16.6%	83.4%	60.7%	12.1%	0.4%	4.3%	0.1%	0.7%	5.1%
10	90,284	1,458	1.64	10,511	79,773	67,617	1,197	377	6,089	120	511	3,862
- 4.4	00.000	100	0.55	11.6%	88.4%	74.9%	1.3%	0.4%	6.7%	0.1%	0.6%	4.3%
11	88,336	-490	-0.55	22,746	65,590	57,165	812	414	3,003	59	477	3,660
40	00.405	0.044	0.04	25.7%	74.3%	64.7%	0.9%	0.5%	3.4%	0.1%	0.5%	4.1%
12	86,485	-2,341	-2.64	10,037	76,448	66,145	756	203	4,687	42	489	4,126
40	00.050	4.400	4.04	11.6%	88.4%	76.5%	0.9%	0.2% 382	5.4% 779	0.0% 67	0.6%	4.8%
13	90,259	1433	1.61	12,324	77,935	72,296 80.1%	524				457	3,430
14	00.045	1,789	2.01	13.7%	86.3%		0.6%	0.4% 293	0.9%	0.1% 130	0.5% 582	3.8%
14	90,615	1,789	2.01	9,497	81,118	67,674	2,546		4,611 5.1%		582 0.6%	5,282 5.8%
15	90,074	1248	1.4	10.5% 17,225	89.5% 72,849	74.7% 55,065	2.8% 5995	0.3% 471	3,648	0.1% 444	646	6,580
15	90,074	1240	1.4	17,225	80.9%	61.1%	6.7%	0.5%	3,646 4.1%	0.5%	0.7%	7.3%
16	88,844	18	0.02	17,300	71,544	59,135	4,402	598	1,506	166	532	5,205
10	00,044	10	0.02	17,300	80.5%	66.6%	5.0%	0.7%	1,506	0.2%	0.6%	5.9%
17	88,286	-540	-0.61	30,540	57,746	37,376	10570	660	2,496	531	533	5,580
17	00,200	-340	-0.01	34.6%	65.4%	42.3%	12.0%	0.7%	2.8%	0.6%	0.6%	6.3%
18	87,518	-1,308	-1.47	11,319	76,199	64,956	2,991	445	2,362	188	456	4,801
10	07,510	-1,500	-1.47	12.9%	87.1%	74.2%	3.4%	0.5%	2.7%	0.2%	0.5%	5.5%
19	89,254	428	0.48	15,095	74,159	65,495	644	243	3,371	71	385	3,950
13	00,204	420	0.40	16.9%	83.1%	73.4%	0.7%	0.3%	3.8%	0.1%	0.4%	4.4%
20	88,807	-19	-0.02	8,863	79,944	69,399	2,239	334	2,100	138	635	5,099
	33,001	10	5.52	10.0%	90.0%	78.1%	2.5%	0.4%	2.4%	0.2%	0.7%	5.7%
21	88,817	-9	-0.01	19,624	69,193	49,550	8516	534	2,326	921	635	6,711
۷.	00,017	3	0.01	22.1%	77.9%	55.8%	9.6%	0.6%	2.6%	1.0%	0.7%	7.6%
22	89,747	921	1.04	13,590	76,157	62,897	3,853	426	2,468	215	459	5,839
	00,1 11	021	1.01	15.1%	84.9%	70.1%	4.3%	0.5%	2.7%	0.2%	0.5%	6.5%
23	87,524	-1302	-1.47	15,272	72,252	63,694	1200	528	2,263	104	463	4,000
	,			17.4%	82.6%	72.8%	1.4%	0.6%	2.6%	0.1%	0.5%	4.6%
		0.004										
24	90,850	2,024	2.28	14,243	76,607	68,807	860	445	2,081	55	385	3,974

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District	Population	Target Deviation	Target Deviation (%)	Hispanic	Non- Hispanic	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/ Alaskan	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific	Non-Hispanic some other race	Non-Hispanic two or more minority race
25	88,920	94	0.11	6,587	82,333	75,581	410	272	1,550	46	424	4,050
				7.4%	92.6%	85.0%	0.5%	0.3%	1.7%	0.1%	0.5%	4.6%
26	90,725	1,899	2.14	18,250	72,475	67,616	532	312	845	55	330	2,785
				20.1%	79.9%	74.5%	0.6%	0.3%	0.9%	0.1%	0.4%	3.1%
27	87,902	-924	-1.04	9,916	77,986	70,137	783	294	2,591	33	349	3,799
				11.3%	88.7%	79.8%	0.9%	0.3%	2.9%	0.0%	0.4%	4.3%
28	86,975	-1,851	-2.08	12,244	74,731	65,368	1,001	439	3,651	59	435	3,778
				14.1%	85.9%	75.2%	1.2%	0.5%	4.2%	0.1%	0.5%	4.3%
29	88,580	-246	-0.28	15,111	73,469	62,318	1254	394	4,862	61	381	4,199
20	86,793	-2,033	-2.29	17.1% 26,242	82.9% 60,551	70.4% 50,884	1.4% 1,790	0.4% 756	5.5% 3,170	0.1% 141	0.4% 491	4.7% 3,319
30	86,793	-2,033	-2.29	26,242 30.2%	,	50,884 58.6%	,		3,170		491 0.6%	
31	87,096	-1730	-1.95	41,088	69.8% 46,008	36,064	2.1% 1786	0.9% 536	4,190	0.2% 77	400	3.8% 2,955
31	67,090	-1730	-1.95	47.2%	52.8%	41.4%	2.1%	0.6%	4.8%	0.1%	0.5%	3.4%
32	88,894	68	0.08	46,943	41,951	32,999	2,860	491	2,234	99	389	2,879
02	00,004	00	0.00	52.8%	47.2%	37.1%	3.2%	0.6%	2.5%	0.1%	0.4%	3.2%
33	87,638	-1188	-1.34	12,276	75,362	63,192	1123	238	6,113	83	431	4,182
	,,,,,,			14.0%	86.0%	72.1%	1.3%	0.3%	7.0%	0.1%	0.5%	4.8%
34	87,400	-1,426	-1.61	25,103	62,297	50,877	1,542	500	4,813	107	377	4,081
				28.7%	71.3%	58.2%	1.8%	0.6%	5.5%	0.1%	0.4%	4.7%
35	89,889	1063	1.2	46,742	43,147	34,299	1360	606	3,647	96	396	2,743
				52.0%	48.0%	38.2%	1.5%	0.7%	4.1%	0.1%	0.4%	3.1%
36	87,839	-987	-1.11	36,076	51,763	28,179	13,084	457	5,490	388	455	3,710
				41.1%	58.9%	32.1%	14.9%	0.5%	6.3%	0.4%	0.5%	4.2%
37	87,811	-1015	-1.14	7,889	79,922	64,119	2708	205	8,233	68	458	4,131
				9.0%	91.0%	73.0%	3.1%	0.2%	9.4%	0.1%	0.5%	4.7%
38	88,827	1	0	10,152	78,675	70,843	1,029	325	2,067	61	409	3,941
	27 122	1050		11.4%	88.6%	79.8%	1.2%	0.4%	2.3%	0.1%	0.5%	4.4%
39	87,168	-1658	-1.87	7,149	80,019	68,427	1106	265	5,710	58	352	4,101
40	90,235	1,409	1.59	8.2% 17,724	91.8% 72,511	78.5% 48,060	1.3% 10,864	0.3% 355	6.6% 6,850	0.1% 179	0.4% 634	4.7% 5,569
40	90,233	1,409	1.59	17,724	80.4%	53.3%	12.0%	0.4%	7.6%	0.2%	0.7%	6.2%
41	89,053	227	0.26	21,852	67,201	40,403	15925	358	5,205	281	490	4,539
71	05,000	221	0.20	24.5%	75.5%	45.4%	17.9%	0.4%	5.8%	0.3%	0.6%	5.1%
42	90,864	2,038	2.29	39,721	51,143	23,063	18,399	448	4,397	691	546	3,599
	,	_,		43.7%	56.3%	25.4%	20.2%	0.5%	4.8%	0.8%	0.6%	4.0%
43	88,172	-654	-0.74	7,994	80,178	68,578	972	216	5,669	54	401	4,288
				9.1%	90.9%	77.8%	1.1%	0.2%	6.4%	0.1%	0.5%	4.9%
44	90,502	1,676	1.89	9,071	81,431	68,210	1,531	229	6,414	87	369	4,591
				10.0%	90.0%	75.4%	1.7%	0.3%	7.1%	0.1%	0.4%	5.1%
45	89,291	465	0.52	9,687	79,604	71,249	1137	253	1,863	91	421	4,590
				10.8%	89.2%	79.8%	1.3%	0.3%	2.1%	0.1%	0.5%	5.1%
46	90,688	1,862	2.1	36,164	54,524	47,635	1,664	628	952	80	540	3,025
47	00.000	70.4	0.00	39.9%	60.1%	52.5%	1.8%	0.7%	1.0%	0.1%	0.6%	3.3%
47	88,092	-734	-0.83	29,232	58,860	52,940	900	759	589	64	477	3,131
48	88,861	35	0.04	33.2% 34,906	66.8% 53,955	60.1% 47,850	1.0% 873	0.9% 427	0.7% 1,228	0.1% 97	0.5% 431	3.6% 3,049
40	00,001	33	0.04						,		0.5%	
49	86,540	-2286	-2.57	39.3% 5,465	60.7% 81,075	53.8% 74,468	1.0% 395	0.5% 261	1.4% 1,638	0.1% 38	450	3.4% 3,825
73	00,040	2200	2.01	6.3%	93.7%	86.1%	0.5%	0.3%	1.9%	0.0%	0.5%	4.4%
50	87,914	-912	-1.03	43,383	44,531	36,740	2,557	464	1,827	128	320	2,495
	0.,0	ŭ. <b>_</b>		49.3%	50.7%	41.8%	2.9%	0.5%	2.1%	0.1%	0.4%	2.8%
51	87,862	-964	-1.09	11,366	76,496	70,111	647	414	967	67	459	3,831
				12.9%	87.1%	79.8%	0.7%	0.5%	1.1%	0.1%	0.5%	4.4%
52	90,787	1,961	2.21	10,420	80,367	70,799	1,001	375	3,407	52	435	4,298
				11.5%	88.5%	78.0%	1.1%	0.4%	3.8%	0.1%	0.5%	4.7%

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District	Population	Target Deviation	Target Deviation (%)	Hispanic	Non- Hispanic	Non-Hispanic White	Non-Hispanic Black	Non-Hispanic American Indian/ Alaskan	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific	Non-Hispanic some other race	Non-Hispanic two or more minority race
53	90,449	1623	1.83	13,138	77,311	67,822	1375	423	2,755	91	465	4,380
				14.5%	85.5%	75.0%	1.5%	0.5%	3.0%	0.1%	0.5%	4.8%
54	90,836	2,010	2.26	13,854	76,982	70,900	443	509	642	75	464	3,949
				15.3%	84.7%	78.1%	0.5%	0.6%	0.7%	0.1%	0.5%	4.3%
55	87,599	-1227	-1.38	13,052	74,547	67,558	661	536	1,172	120	545	3,955
				14.9%	85.1%	77.1%	0.8%	0.6%	1.3%	0.1%	0.6%	4.5%
56	88,074	-752	-0.85	11,528	76,546	68,944	1,062	447	1,196	106	411	4,380
				13.1%	86.9%	78.3%	1.2%	0.5%	1.4%	0.1%	0.5%	5.0%
57	88,729	-97	-0.11	25,015	63,714	58,767	375	356	785	52	429	2,950
				28.2%	71.8%	66.2%	0.4%	0.4%	0.9%	0.1%	0.5%	3.3%
58	89,790	964	1.09	13,212	76,578	71,051	327	582	592	43	469	3,514
				14.7%	85.3%	79.1%	0.4%	0.6%	0.7%	0.0%	0.5%	3.9%
59	90,452	1626	1.83	11,911	78,541	66,910	288	6066	593	62	538	4,084
				13.2%	86.8%	74.0%	0.3%	6.7%	0.7%	0.1%	0.6%	4.5%
60	87,230	-1,596	-1.8	9,177	78,053	70,538	1,371	780	677	50	474	4,163
				10.5%	89.5%	80.9%	1.6%	0.9%	0.8%	0.1%	0.5%	4.8%
61	90,265	1439	1.62	11,060	79,205	57,812	6348	253	8,864	107	415	5,406
				12.3%	87.7%	64.0%	7.0%	0.3%	9.8%	0.1%	0.5%	6.0%
62	89,177	351	0.4	45,758	43,419	37,606	1,202	958	497	62	469	2,625
				51.3%	48.7%	42.2%	1.3%	1.1%	0.6%	0.1%	0.5%	2.9%
63	87,186	-1640	-1.85	21,327	65,859	60,925	1376	327	379	53	254	2,545
				24.5%	75.5%	69.9%	1.6%	0.4%	0.4%	0.1%	0.3%	2.9%
64	90,012	1,186	1.34	19,910	70,102	63,984	714	356	1,177	60	401	3,410
				22.1%	77.9%	71.1%	0.8%	0.4%	1.3%	0.1%	0.4%	3.8%
65	90,019	1193	1.34	11,605	78,414	72,083	519	268	1,269	61	378	3,836
				12.9%	87.1%	80.1%	0.6%	0.3%	1.4%	0.1%	0.4%	4.3%

 Total Population
 5,773,714

 Mean Target Population:
 88,826

 Mean Deviation:
 1,148

 Largest Positive Deviation:
 2,038

 Largest Negative Deviation:
 -2,341

 Overall Range in Deviation Percentage:
 4.93

Source: Colorado Independent Redistricting Commissions Staff. October 14, 2021

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In re Colorado Independent Legislative Redistricting Commission

### Exhibit 8

Commission Policy No. 9

### Colorado Independent Legislative Redistricting Commission

### Policy #9

### Voting Rights Act Compliance

Draft date	October 5, 2021
Approval date	October 6, 2021
Revision date(s)	
Constitutional authority for this policy	Section 48.1(1)(b)
Requires section 48.2(3) supermajority approval?	☐ Yes ☑ No

The Colorado Constitution requires the Colorado Independent Legislative Redistricting Commission (commission) to comply with the Voting Rights Act (VRA) in creating legislative redistricting plans. This policy outlines how the commission's nonpartisan redistricting staff (staff) and the commission's outside counsel will review staff plans, amendments, and additional plans for compliance with the VRA.

#### Compliance with the VRA

Among other things, the VRA prohibits the drawing of districts that dilute the voting power of members of a racial or language minority group. The Supreme Court established the analysis that is applied to determine if such dilution occurs in *Thornburg v. Gingles*, 478 U.S. 30 (1968). As explained by the U.S. Department of Justice:

Analysis begins by considering whether three <u>Gingles</u> preconditions exist. First, the minority group must be sufficiently large and geographically compact to constitute a majority of the voting-age population in a single-member district. Second, the minority group must be politically cohesive. And third, the majority must vote sufficiently as a bloc to enable it — in the absence of special circumstances, such as the minority candidate running unopposed — usually to defeat the minority group's preferred candidate.

If all three Gingles preconditions are present, consideration proceeds to an analysis of the totality of circumstances in a jurisdiction. <sup>2</sup>

The commission analyzed the first prong of this test: whether there were minority groups large enough and compact enough to constitute a majority of the voting age population of a district. The commission's outside counsel retained a VRA expert to assist in the determination of whether the second and third prongs of this test could be satisfied. In other words, whether voting was racially polarized, that is whether minority voters vote cohesively for one candidate and the white majority voters vote cohesively for a different candidate, and whether minority voters were unable to elect their preferred candidates.

<sup>&</sup>lt;sup>1</sup> The Colorado Constitution cites to the "'Federal Voting Rights Act of 1965' at 52 U.S.C. sec 50301, as amended." The citation in the Colorado Constitution is incorrect. Section 2 of the Voting Rights Act is now 52 U.S.C. 10301, which can be accessed through the following link: <a href="https://bit.ly/3f52VWm">https://bit.ly/3f52VWm</a>.

<sup>&</sup>lt;sup>2</sup> Guidance under Section 2 of the Voting Rights Act, 52 U.S.C. 10301, for redistricting and methods of electing government bodies, U.S. Department of Justice, September 1, 2021.

#### **VRA Expert Analysis**

The VRA expert retained by the commission's outside counsel analyzed past elections to identify minority preferred candidates, determine whether there was racially polarized voting, and provide an estimate of the percentage of the minority voting age population that would be necessary in a district to elect the minority preferred candidate.<sup>3</sup>

The VRA expert was not able to identify a suitable recent statewide race that would allow her to analyze the entire state at once. Therefore, the expert analyzed State House and State Senate races from the 2018 and 2020 election cycles that occurred within areas of the state that were identified as potential areas of concern for VRA compliance by the members of the commission.

After the VRA expert conducted her analysis of past elections, staff presented her analysis in two different formats that would assist in applying the analysis in the drafting of staff plans, amendments, and additional plans.

#### **Geographic Overlap**

The first format the staff shall use to apply the VRA expert's analysis is a measure of geographic overlap.

Due to population growth across Colorado, the proposed districts in staff plans, amendments, and additional plans cannot align with the existing State House and State Senate districts. Therefore, it is not immediately clear how the existing districts that held elections analyzed by the VRA expert relate to proposed districts. To assist in determining this relationship, staff shall measure the geographic area of certain existing districts contained in proposed districts. This is a measure of geographic overlap.

Along with the measure of geographic overlap, staff shall compare the percentage of minority voting age population in the proposed districts with the percentage of minority voting age population needed for a minority candidate of choice to be elected.<sup>4</sup>

This analysis allows two primary determinations. First, how relevant those elections analyzed by the VRA expert were to the proposed districts: an election in an existing district that does not share any geographic area with a proposed district has limited relevance for that proposed district. Second, whether a proposed district likely has enough of a minority voting age population to allow the minority preferred candidate to be elected. In a proposed district that has a significant geographic overlap with an existing district, if the minority voting age population in the proposed district either meets or exceeds the minority voting age population the VRA expert determined would be necessary for a minority preferred candidate to be elected in past elections, it would be reasonably likely that the minority preferred candidate could be elected in that proposed district.

If a minority preferred candidate could be elected in a proposed district, it would be difficult to prove under the *Gingles* analysis that the proposed district violates the VRA and dilutes the voting power of members of a racial or language minority group. Such an argument would not be able to demonstrate that the majority voted in a way that usually defeated the minority's preferred candidate.

<sup>&</sup>lt;sup>3</sup> A more comprehensive explanation of the methods used by the VRA expert can be found here: https://www.ncsl.org/documents/legismgt/vote\_dilusion.pdf.

<sup>&</sup>lt;sup>4</sup> The percentage of minority voting age population needed for a minority candidate of choice to be elected was determined by the VRA expert in those races she analyzed that had racially polarized voting and a numerically adequate or significant number of votes cast by minority voters.

#### **Voter Overlap**

As noted above, staff shall consider the VRA expert's analysis in two different formats that would assist in the drafting of staff plans, amendments, and additional plans. The second of these formats is a measure of voter overlap.

Although the geographic overlap of existing districts and proposed districts allows an application of the VRA expert's analysis to proposed districts, there are two principle limitations to this approach. First, geographic overlap between districts does not necessarily mean that those districts share a large number of voters. Put differently, existing and proposed districts could share large amounts of sparsely populated land while not having overlapping population centers and thus have significant geographic overlap while not having many overlapping voters. This is a problem because the VRA is concerned with voters and not land. Secondly, some existing districts share significant geographic area with multiple proposed districts. These existing districts therefore have limited geographic overlap with any particular proposed district. The geographic analysis based on these existing districts would be of limited use.

To address these limitations, staff shall also analyze the voter, rather than just geographic, overlap between existing and proposed districts. Staff shall identify the approximate location of the voters who cast votes in elections analyzed by the VRA expert. This allows staff to determine the proposed districts that would contain the voters who cast votes in such elections and how many such voters exist in a proposed district. As an example, if a proposed district covered three existing districts of equal size, and two of the existing districts had held an election with a minority preferred candidate, two thirds of the votes cast in the proposed district would have been cast in an election with a minority preferred candidate. Next, staff shall use the votes cast for minority preferred candidates in areas covered by proposed districts to determine whether a minority preferred candidate would have won an election. In other words, staff shall determine whether the number of votes cast for minority preferred candidates in an area covered by a proposed district exceed the number of votes cast for the alternative candidates.

This voter overlap analysis allows for both a determination of whether a minority preferred candidate would be reasonably likely to be elected in the proposed district and how relevant this prediction was based on how many votes in a proposed district had been cast in an election with a minority preferred candidate. Again, if a minority preferred candidate could be elected in a proposed district, it would be difficult to prove under the *Gingles* analysis that the proposed district violates the VRA and dilutes the voting power of members of a racial or language minority group.

#### Comparison of Voting Age Populations

Finally, the staff shall compare the voting age populations of the proposed districts to the voting age population in existing districts. This assists in determining whether current minority voter representation was diluted by a proposed district in a staff plan, amendment, or additional plan.

#### Application

Attached to this memo is the application of these policies to the third House and Senate Staff Plans.

#### Attachments A, B, C, D, and E: Application of Voting Rights Act Compliance Policy to the Third Staff House Plan

The table in Attachment A shows the application of the "Geographic Overlap" analysis to the third Staff House Plan. This table shows that it is unlikely there is racially polarized voting in proposed House Districts 5, 7, 23, and 32. Also, as can be seen by comparing the "Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD [X]" column to the "Hispanic Voting Age Population Percentage" column, proposed House Districts 17 and 62 exceed the minority voting age population numbers that must be met for the minority candidate of choice to be elected. This is not the case with proposed House Districts 56, 46, and 47. This can be explained for proposed House District 56 because although current House District 30 shares a large amount of geographic area with House District 56, it does not share a large number of voters. Similarly proposed House Districts 46 and 47 cover a large amount of the geographic area of current House Districts 46 and 47, but do not contain a large number of the voters in current House Districts 46 and 47.

The tables in Attachment B and Attachment C show the application of the "Voter Overlap" analysis to the third Staff House Plan based on 2018 and 2020 State House races. Looking at the "Share of Votes Vast in Elections with Minority Preferred Candidates in the Proposed House District" column, only House Districts 5, 7, 17, 28, 32, 40, 42, 47, 61, and 62 had more than fifty percent of their votes cast in elections with minority preferred candidates. Among these House Districts, looking at the "Share of Votes Received by Minority Candidates in Elections in the Proposed House District" column, minority preferred candidates could reasonably be predicted to be elected in House Districts 5, 7, 17, 28, 32, 40, 42, 61, and 62, but not in House District 47. This can be explained by the fact that proposed House District 47 no longer includes parts of Pueblo, instead proposed House Districts 61 and 62 contain a large amount of the Hispanic voting age population (both are either have a majority minority voting age population or are close to it) in the area and both are likely to elect a minority preferred candidate.

Finally, the Voting Age Population tables for the current districts in Attachment D shows that there are currently seven majority minority voting age population House Districts, including one majority Hispanic voting age population district. The Voting Age Population table for the third House Staff Plan in Attachment E shows that there are ten majority minority House Districts in the third Staff House Plan.

#### Attachments F, G, H, and I: Application of Voting Rights Act Compliance Policy to the Third Staff Senate Plan

The table in Attachment F shows first attached table shows the application of the "Geographic Overlap" analysis to the third Staff Senate Plan. This table shows that it is unlikely there is racially polarized voting in proposed Senate District 3. Also, as can be seen by comparing the "Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in SD [X]" column to the "Hispanic Voting Age Population Percentage" column, proposed Senate District 21 exceeds the minority voting age population numbers that must be met for the minority candidate of choice to be elected. This is not the case with proposed Senate Districts 23, 24, 25, and 35. This can be explained for proposed Senate District 23 because in order to have sufficiently high Hispanic voting age population this proposed district would need to gain approximately thirty-two percent Hispanic voting age population, which suggests that the first *Gingles* factor could not be satisfied in this district. Proposed Senate Districts 24 and 25 each only cover approximately half of the geographic area of current Senate District 24. A large number of the voters in proposed Senate Districts 24 and 25 are majority voters who are likely to vote for the minority candidate of choice. Thus, the minority candidate of choice is reasonably likely to be elected in proposed Senate Districts 24 and 25. Finally, although current Senate District 35 shares a relatively large amount of area with proposed Senate District 35, it does not share a large number of voters.

The table in Attachment G shows the application of the "Voter Overlap" analysis to the third Staff Senate Plan based on 2018 and 2020 House Senate races. Looking at the "Share of Votes Cast in Elections with Minority Preferred Candidates in the Proposed Senate District" column, only Senate Districts 3, 21, 23, 24, and 25 had more than fifty percent of their votes cast in elections with minority preferred candidates. Among these Senate Districts, looking at the "Share of Votes Received by Minority Candidates in Elections in the Proposed Senate District" column, minority preferred candidates could reasonably be predicted to be elected in Senate Districts 3, 21, 24, and 25, but not in the Senate District 23. Senate District 23 was discussed above.

Finally, the Voting Age Population tables for the current districts in Attachment H shows there are currently four majority minority voting age population Senate Districts. The Voting Age Population table for the third Senate Staff Plan in Attachment I shows that there are four majority minority Senate Districts in the third Staff Senate Plan.

### Attachment A

roposed House District #	Hispanic Voting Age Population Percentage	Hispanic Citizen Voting Age Papulation Percentage	S of Geographic Area of Current HD S in Proposed District	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 5 in 2018	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 5 in 2020	N of Geographic Area of Current HD 7 in Proposed District	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 7	% of Geographic Area of Current HD 17 in Proposed p District	Percent minority VAP must exceed for Hispanic orxferred candidate to win in HD 17 in 2018	Persent minority VAP must exceed for Hispanic preferred candidate to win in HD 17 in 2020	% of Geographic Area of Current HG 28 in Proposed District	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 28	% of Geographic Area of Current HD 30 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HO 30	% of Geographic Area of Current HD 12 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in HD 32	% of Geographic Area of Current HD 46 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HO 46 in 2018	Percent Hispanic /AP must exceed for Hispanic Preferred Candidate to win in HD 46 in 2020	% of Geographic Area of Current HD 47 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 47 in 2018	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 87 in 2020	Si of Geographic Area of Current HD 62 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 62 in 2018	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to with HD 62 in 2020
6.5	28.63%	29.325	84.42%	NOT POLARIZED	NOT POLARIZED		NOT POLARIZED		63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED	9	43.80%	51.60%		49.60%	5860.00%		4230.00%	5160.00
	44.19%	33.801		NOT POLARIZED	NOT POLARIZED	88.02%	NOT POLARIZED		63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	5860.00%		4230.00%	5160.00
.17	*52.97%	24.225		NOT POLARIZED	NOT POLARIZED		NOT POLARIZED	89.58%	63.20%	46.00%		NOT POLARIZED		30,70%		NOT POLARIZED		43.80%	51.60%		49.60%	5860.00%		4230.00%	5160.00
23	13.49%	12,799		NOT POLARIZED	NOT POLARIZED	- 3	NOT POLARIZED		63.20%	46.00%	52,595	NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	5860.00%		4230.00%	5160.00
9.2	48.90%	41.069		NOT POLARIZED	NOT POLARIZED		NOT POLARIZED		63.20%	46,00%		NOT POLARIZED		30.70%	89,45%	NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90
46	10.02%	11.579		NOT POLARIZED	NOT POLARIZED	- 9	NOT POLARIZED		63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED	50.98%	43,80%	51.60%		49.60%	58.60%		42,30%	41.90
43	29.61%	28.899		NOT POLARIZED	NOT POLARIZED	33	NOT POLARIZED		63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%	(-82.81)	49.60%	58.60%		42.30%	41.90
SE	12.66%	8.631		NOT POLARIZED	NOT POLARIZED	- 31	NOT POLARIZED		63.20%	46.00%		NOT POLARIZED	77.63%	30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90
62	46.56%	46.279		NOT POLARIZED	NOT POLARIZED	- 1	NOT POLARIZED		63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%	99 885	42,30%	41.90

"total VAP excluding Nonhispanic Whites

### Attachment B

	Share of Votes Received by	
	Minority Candidates in	Elections with Minority
Proposed House	Elections in the Proposed	Preferred Candidates in the
District	House District	Proposed House District
1	74.0%	9.8%
3	63.8%	1.4%
4	76.6%	4.3%
5	79.4%	85.9%
6	75.0%	1.5%
7	83.5%	100.0%
8	84.4%	29.8%
17	59.2%	85.4%
18	54.2%	4.2%
22	50.4%	4.0%
23	56.5%	34.2%
28	61.0%	57.2%
30	68.1%	0.0%
37	64.0%	0.7%
40	62.8%	87.8%
41	71.6%	10.6%
42	73.3%	83.6%
46	37.0%	23.7%
47	44.6%	55.5%
61	61.7%	100.0%
62	60.4%	100.0%

# Attachment C

Proposed House District	Share of Votes Received by Minority Candidates in Elections in the Proposed House District	Share of Votes Cast in Elections with Minority Preferred Candidates in the Proposed House District
1	72.5%	10.0%
3	61.5%	1.9%
4	78.1%	4.7%
5	79.6%	85.9%
6	76.4%	1.8%
8	82.2%	3.7%
17	57.3%	85.6%
18	50.2%	4.8%
22	51.1%	4.2%
23	56.1%	34.9%
24	63.1%	3.8%
28	59.1%	58.5%
31	54.0%	24.2%
32	56.0%	95.1%
34	48.0%	9.5%
35	67.9%	31.3%
36	72.3%	35.9%
37	61.6%	1.1%
40	58.9%	87.0%
41	62.0%	4.1%
46	41.2%	18.4%
47	71.4%	31.8%
48	32.8%	0.6%
56	42.0%	5.2%
61	71.0%	80.7%
62	60.2%	100.0%

### Attachment D

District No.	Non-H Hispanic VAP VAP	ispanic Black	Minority VAP
1	43.51%	1.59%	51.89%
2	9.42%	2.94%	17.39%
3	13.19%	2.01%	21.02%
4	46.43%	1.95%	52.21%
5	44.39%	4.85%	54.56%
6 7	9.41%	9.88%	25.33%
8	36.43% 15.69%	28.30% 20.16%	70.85% 40.28%
9	13.41%	8.92%	29.26%
10	8.26%	1.24%	16.89%
11	15.53%	0.76%	20.57%
12	15.08%	0.88%	20.91%
13	4.37%	0.64%	8.45%
14	8.19%	3.81%	18.98%
15	12.22%	6.79%	26.08%
16	11.72%	4.45%	20.93%
17	28.06%	14.65%	49.66%
18	11.69%	4.26%	20.27%
19	5.77%	1.71%	11.20%
20	8.65%	3.47%	17.90%
21	14.86%	10.21%	31.93%
22	7.98%	0.77%	12.66%
23	15.58%	1.48%	21.34%
24	13.06%	1.06%	18.33%
25	4.50%	0.48%	7.32%
26	19.30%	0.56%	21.79%
27	8.64%	0.71%	12.37%
28	20.54%	1.59%	27.92%
29	13.80%	1.15%	20.50%
30	35.50%	9.26%	50.90%
31	30.01%	1.75%	37.15%
32 33	50.88% 8.64%	1.86% 1.01%	56.77% 18.26%
34	29.00%	1.93%	36.99%
35	25.90%	1.49%	34.25%
36	18.74%	15.90%	43.96%
37	7.45%	5.31%	22.08%
38	5.86%	1.09%	10.16%
39	4.82%	0.73%	9.96%
40	13.30%	11.51%	33.69%
41	16.00%	15.55%	39.32%
42	36.82%	19.80%	63.47%
43	6.49%	1.28%	14.04%
44	7.04%	1.75%	14.79%
45	6.87%	1.18%	11.48%
46	35.78%	1.76%	39.75%
47	30.35%	1.77%	35.01%
48	17.85%	0.50%	20.65%
49	6.63%	0.42%	9.18%
50	38.22%	1.85%	43.10%
51	8.86%	0.51%	11.72%
52	10.59%	0.93%	15.88%
53	8.34%	1.48%	14.71%
54 EE	11.90%	0.64%	14.90%
55 56	11.26%	0.74%	14.73%
56 57	19.98% 20.18%	2.25% 0.53%	26.77% 22.91%
57	12.37%	0.30%	18.00%
58 59	10.35%	0.45%	16.24%
60	9.66%	3.26%	15.69%
61	10.78%	0.57%	13.47%
62	46.38%	0.78%	49.72%
63	19.15%	0.69%	23.64%
64	19.87%	2.81%	24.99%
65	19.28%	2.73%	23.67%

# Attachment E

	191	and the second	
District No.	Non-l Hispanic VAP VAP	Hispanic Black	Minority VAP
140.	Phopathic VAL VAL		wintority var
1	43.39%	2.77%	55.19%
2	7.63% 16.66%	2.08% 7.00%	17.02% 32.84%
4	35.36%	2.78%	44.45%
5	28.63%	4.85%	41.05%
6	11.26%	6.99%	26.36%
7 8	44.19% 16.67%	23.04% 16.29%	77.92% 40.25%
9	16.08%	14.03%	38.92%
10	9.03%	1.70%	21.87%
11	7.31%	0.99%	16.46%
12 13	10.96% 22.10%	1.23% 1.27%	20.96% 30.36%
14	8.04%	2.90%	20.16%
15	13.48%	6.04%	29.26%
16	16.16%	6.39%	31.34%
17	30.57%	13.13%	52.97%
18 19	14.75% 11.61%	5.14% 4.50%	27.29% 25.36%
20	10.36%	3.96%	22.57%
21	19.72%	11.27%	41.04%
22	10.69%	1.17%	19.42%
23 24	13.49% 15.10%	1.91% 1.42%	23.84% 23.20%
25	5.30%	0.74%	12.26%
26	17.71%	0.77%	22.78%
27	12.36%	1.10%	20.07%
28	26.14%	2.40%	36.75%
29 30	15.11% 10.88%	1.86% 8.13%	26.95% 33.98%
31	42.55%	2.39%	53.71%
32	48.90%	3.57%	58.89%
33	11.07%	1.65%	25.02%
34	25.71%	2.17%	37.94%
35 36	47.19% 35.16%	1.86%	57.05% 60.67%
37	8.00%	3.60%	24.38%
38	9.86%	1.55%	17.86%
39	7.21%	1.74%	19.21%
40 41	17.35% 21.28%	12.56% 17.63%	42.69% 49.50%
42	39.39%	21.06%	69.99%
43	8.01%	1.54%	19.96%
44	9.01%	2.31%	22.49%
45	9.22% 10.02%	1.74%	17.65%
46 47	29.61%	2.75% 2.13%	18.83% 36.94%
48	34.98%	1.29%	41.60%
49	8.73%	0.69%	15.01%
50	44.08%	3.16%	52.75%
51 52	10.69% 9.99%	1.00% 1.56%	17.28% 19.64%
53	12.69%	2.07%	22.67%
54	12.78%	0.75%	19.14%
55	12.93%	0.99%	20.32%
56 57	12.66%	2.65%	21.27%
57 58	24.05% 12.38%	0.71% 0.55%	29.48% 18.13%
59	11.28%	0.52%	22.63%
60	11.80%	1.02%	17.85%
61	38.38%	2.50%	46.13%
62 63	46.56% 21.41%	1.55% 2.18%	52.89% 27.29%
64	17.49%	0.90%	25.07%
65	17.69%	1.08%	23.79%

### Attachment F

Proposed Senate District #	Hispanic Voting Age Population Percentage	Hispanic Citizen Voting Age Population Percentage	% of Geographic VAP mu Area of Current SD 3 for H in Proposed District preferred	nt Hispanic ust exceed Hipsanic d candidate in in SD 3  % of Geo Area of Cu 21 in Pro Distr	rrent SD posed	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in SD 21	% of Geographic Area of Current SD 23 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in SD 23	% of Geographic Area of Current SD 24 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in SD 24	% of Geographic Area of Current SD 35 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in SD 35
1	37.98%	38.779	6 100.00% NOT POLA	ARIZED		9.00%		45.20%		37.40%		60.40%
2:	1 45.55%	38.399	6 NOT POLA	.ARIZED	94.50%	9.00%		45.20%		37.40%		60.40%
23	3 13.07%	10.919	6 NOT POLA	ARIZED		9.00%	70.10%	45.20%		37.40%		60.40%
24	4 34.40%	26.339	6 NOT POLA	ARIZED		9.00%		45.20%	52.50%	37.40%		60.40%
25	5 18.57%	15.479	NOT POLA	ARIZED		9.00%		45.20%	47.50%	37.40%		60.40%
35	5 18.70%	17.99%	6 NOT POLA	ARIZED		9.00%		45.20%		37.40%	59.40%	60.40%

### Attachment G

Proposed Senate District	Share of Votes Received by Minority Candidates in Elections in the Proposed Senate District	Share of Votes Cast in Elections with Minority Preferred Candidates in the Proposed Senate District
3	66.77%	100.00%
19	66.61%	2.00%
21	62.85%	78.48%
25	57.28%	100.00%
24	52.27%	57.09%
14	49.32%	2.80%
6	46.41%	29.87%
17	46.00%	0.78%
23	38.03%	82.16%
35	37.77%	40.52%
13	30.47%	0.09%
4	29.22%	3.52%
1	27.79%	8.65%

## Attachment H

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
D1	18.71%	1.79%	24.75%
D2	11.27%	4.01%	22.30%
D3	40.20%	2.41%	47.87%
D4	8.61%	1.86%	18.42%
D5	17.03%	0.85%	22.59%
D6	12.55%	0.52%	21.62%
D7	12.77%	0.91%	19.76%
D8	17.12%	0.76%	22.62%
D9	9.01%	3.28%	21.10%
D10	13.90%	5.39%	28.09%
D11	23.65%	9.67%	41.65%
D12	16.15%	7.99%	33.82%
D13	36.36%	2.16%	43.73%
D14	11.22%	1.89%	21.23%
D15	10.14%	0.86%	16.52%
D16	10.14%	1.21%	19.17%
D17	17.32%	1.31%	26.81%
D18	8.17%	1.41%	19.35%
D19	13.99%	1.44%	22.88%
D20	12.38%	1.36%	21.12%
D21	48.41%	2.71%	58.37%
D22	19.82%	2.00%	30.05%
D23	12.77%	1.13%	21.94%
D24	25.17%	2.07%	36.93%
D25	39.10%	5.52%	53.03%
D26	14.23%	7.38%	30.64%
D27	9.12%	4.66%	26.21%
D28	18.63%	13.98%	45.10%
D29	30.05%	16.83%	57.07%
D30	8.02%	1.81%	21.36%
D31	13.13%	9.01%	30.47%
D32	24.63%	2.77%	35.43%
D33	29.19%	19.43%	57.67%
D34	30.84%	4.25%	42.14%
D35	32.34%	1.54%	38.77%

# Attachment I

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
D1	21.24%	1.64%	27.12%
D2	9.32%	2.04%	19.45%
D3	37.98%	2.20%	45.37%
D4	8.61%	1.91%	16.31%
D5	19.00%	0.64%	24.63%
D6	19.04%	0.65%	28.10%
D7	12.51%	0.88%	19.44%
D8	15.41%	0.78%	20.73%
D9	8.96%	3.33%	21.50%
D10	14.07%	5.73%	28.91%
D11	25.63%	11.20%	46.10%
D12	14.89%	6.96%	30.46%
D13	41.18%	2.41%	49.09%
D14	11.83%	1.85%	21.76%
D15	9.95%	0.98%	16.60%
D16	9.42%	1.41%	17.72%
D17	17.29%	1.29%	26.56%
D18	8.31%	1.41%	20.12%
D19	13.78%	1.38%	22.57%
D20	10.43%	1.18%	19.10%
D21	45.55%	2.57%	54.71%
D22	20.32%	2.15%	30.24%
D23	13.07%	0.83%	20.49%
D24	34.40%	2.30%	45.81%
D25	18.57%	1.88%	31.27%
D26	15.43%	7.63%	33.03%
D27	11.74%	8.08%	34.50%
D28	37.15%	16.66%	64.62%
D29	22.82%	17.72%	51.20%
D30	7.82%	1.77%	21.27%
D31	10.68%	5.84%	24.02%
D32	26.39%	6.36%	41.45%
D33	31.30%	20.40%	60.76%
D34	34.09%	3.54%	44.50%
D35	18.70%	2.19%	26.74%

In re Colorado Independent Legislative Redistricting Commission

### Exhibit 9

Report of Dr. Lisa Handley

# Voting Patterns by Race/Ethnicity in Recent State Legislative Elections in Colorado Dr. Lisa Handley

#### I. Scope of Project

I was retained by outside legal counsel to the Colorado Independent Legislative Redistricting Commission to carry out a racial bloc voting analysis of recent state legislative elections in select areas of Colorado. I have conducted similar analyses on behalf of the Colorado Reapportionment Commission in 1991, 2001 and 2011. If I concluded voting is racially/ethnically polarized in specific areas of the State, I was to assist in a district-specific, functional analysis to ascertain whether proposed districts would provide minority voters with an opportunity to elect their candidates of choice to legislative office.

### II. Professional Experience

I have over thirty-five years of experience as a voting rights and redistricting expert. I have advised scores of jurisdictions and other clients on minority voting rights and redistricting-related issues and have served as an expert in dozens of voting rights cases. My clients have included state and local jurisdictions, independent redistricting commissions, the U.S. Department of Justice, national civil rights organizations, and such international organizations as the United Nations.

I have been actively involved in researching, writing, and teaching on subjects relating to voting rights, including minority representation, electoral system design, and redistricting. I co-authored a book, *Minority Representation and the Quest for Voting Equality* (Cambridge University Press, 1992) and co-edited a volume, *Redistricting in Comparative Perspective* 

<sup>&</sup>lt;sup>1</sup> My understanding is that the areas of the State selected for analysis were identified by legal counsel in collaboration with the Commissioners and staff as localities that contained a sufficiently large and geographically concentrated minority population to satisfy the first precondition of *Thornburg v. Gingles*. See footnote 3, below.

<sup>&</sup>lt;sup>2</sup> My conclusion that voting was racially polarized in 1991 was later confirmed by the Tenth Circuit Court of Appeals in Sanchez v. State of Colorado (97 F.3d 1303 (10<sup>th</sup> Cir. 1996) which, in addition to my analysis, also considered data from subsequent elections. The existence of racially polarized voting, along with other factors, led the Sanchez court to conclude that the failure to create a majority minority district in the San Luis Valley constituted a violation of Section 2 of the Voting Rights Act of 1965.

(Oxford University Press, 2008), on these subjects. In addition, my research on these topics has appeared in peer-reviewed journals such as *Journal of Politics*, *Legislative Studies Quarterly*, *American Politics Quarterly*, *Journal of Law and Politics*, and *Law and Policy*, as well as law reviews (e.g., *North Carolina Law Review*) and a number of edited books. I hold a Ph.D. in political science from The George Washington University.

I have been a principal of Frontier International Electoral Consulting since co-founding the company in 1998. Frontier IEC specializes in providing electoral assistance in transitional democracies and post-conflict countries. In addition, I am a Visiting Research Academic at Oxford Brookes University in Oxford, United Kingdom.

#### III. Analyzing Voting Patterns by Race/Ethnicity

An election is racially polarized if minorities and whites, considered separately, would have elected different candidates – this is referred to as the "separate electorates test" in the seminal Supreme Court decision *Thornburg v. Gingles*, 478 U.S. 30 (1986). An analysis of voting patterns by race serves as the foundation of two of the three elements of the "results test" as outlined in *Gingles*: a racial bloc voting analysis is needed to determine whether the minority group is politically cohesive; and the analysis is required to determine if whites are voting sufficiently as a bloc to usually defeat minority-preferred candidates.<sup>3</sup>

Standard Statistical Techniques The voting patterns of white and minority voters must be estimated using statistical techniques because direct information about how individuals have voted is simply not available. To estimate vote choices by race/ethnicity, I used two standard statistical techniques: ecological regression and ecological inference.<sup>4</sup>

<sup>&</sup>lt;sup>3</sup> The "results test" as interpreted by the Supreme Court in *Thornburg v. Gingles* requires plaintiffs to demonstrate three threshold factors to establish a §2 violation:

The minority group must be sufficiently large and geographically compact to constitute a majority in a single member district;

The minority group must be politically cohesive;

The minority group must be able to demonstrate that the white majority votes sufficiently as a bloc to enable it – in the absence of special circumstances, such as the minority candidate running unopposed – usually to defeat the minority's preferred candidate.

<sup>&</sup>lt;sup>4</sup> One commonly used check on the estimates derived from ecological regression and ecological inference is to compare these percentages to the actual voting percentages derived from racially/ethnically homogeneous precincts where the race/ethnicity of the voters is known. The general practice is to label a precinct as homogeneous if at least 90 percent of the voting age population or, in the case of Hispanics, 90 percent of the citizen voting age population, is composed of a single race/ethnicity. However, there are

Ecological regression was employed by the plaintiffs' expert in *Thornburg v. Gingles* and has the benefit of the Supreme Court's approval in this as well as many subsequent voting rights cases. The second technique, ecological inference, was developed after the Court decided *Gingles* and was designed, in part, to address the issue of out-of-bounds estimates (estimates that exceed 100 percent or are less than zero percent), which can arise in ecological regression analysis. Ecological inference analysis has been introduced and accepted in numerous district court proceedings.

Ecological regression (ER) is a technique for determining if there is a pattern across election precincts between the percentage minority and the percentage of votes cast for the candidates competing in a given election contest. If there is a strong linear relationship across precincts, this relationship can be used to estimate the percentage of minority and white voters supporting each of the candidates in the election contest being examined.

Ecological inference (EI) was developed by Professor Gary King. Unlike ecological regression, it does not rely on an assumption of linearity. Instead, it incorporates maximum likelihood statistics to produce estimates of voting patterns by race. In addition, it utilizes the method of bounds, which uses more of the information available from the precinct returns than simply their demographic composition and candidate vote percentages.<sup>5</sup> The method of bounds also precludes the estimates from exceeding the possible limits. However, unlike ecological regression, EI does not guarantee that the estimates add to 100 percent of each racial/ethnic group in the elections examined.<sup>6</sup>

not a sufficient number of homogeneous Hispanic precincts in Colorado to report homogeneous precinct percentages. For further explanation of homogeneous precinct analysis and ecological regression see Bernard Grofman, Lisa Handley and Richard Niemi, *Minority Representation and the Quest for Voting Equality* (Cambridge University Press, 1992). See Gary King, *A Solution to the Ecological Inference Problem* (Princeton University Press, 1997) for a more detailed explanation of ecological inference.

<sup>&</sup>lt;sup>5</sup> The following is an example of how the method of bounds works: if a given precinct has 100 voters, of which 75 are Hispanic and 25 are white, and the Hispanic candidate received 80 votes, then at least 55 of the Hispanic voters voted for the Hispanic candidate and at most all 75 did. (The method of bounds is less useful for calculating estimates for white voters, as anywhere between none of the whites and all of the whites could have voted for the candidate.) These bounds are used when calculating EI estimates but not when using ecological regression.

<sup>&</sup>lt;sup>6</sup> While EI places a constraint on each choice (e.g., the estimate of the percentage of Hispanic voters that voted for any individual candidate will always fall between zero and 100 percent), it places no such constraint on the sum of all of the choices (e.g., the estimates of the percentage of Hispanic voters for all candidates need not sum to 100 percent).

Estimates derived using both of these methodological approaches, ER and EI, are reported in the summary racial bloc voting tables found at the end of this report. The state legislative contests analyzed are all recent (2018 and 2020) and all included candidates of color. <sup>7</sup>

### IV. Results of Racial Bloc Voting Analysis

Western Adams County I analyzed five recent state legislative elections in the western portion of Adams County that included Hispanic candidates. The results of my analysis can be found in the table labeled "Western Adams County" at the end of this report. Four of these contests were clearly polarized, with the majority of Hispanic voters supporting a different candidate than the majority of non-Hispanic white voters. The polarization is less pronounced when all non-Hispanic voters are considered together because this category includes non-Hispanic Black voters who tend to support the same candidates as Hispanic voters. For example, the first contest listed in the Western Adams County table is the 2020 general election in State House District 30. An overwhelming majority of Hispanic voters – 87.2% according to the ER estimate and 90.4% according to the EI estimate – supported Dafna Michaelson Jenet, the Democratic candidate. A majority of non-Hispanic white voters supported Hispanic Republican Kerrie Gutierrez – 90.9% according the ER estimate and 81.4% according to the EI estimate. But when all non-Hispanic voters are considered together, voting is still polarized, although the percentage of voters supporting Gutierrez is lower.

Despite racially/ethnically polarized voting, the Hispanic-preferred candidate won the contest to represent House District 30 seat with 56.9% of the vote. This is because the district has a substantial (albeit not a majority) Hispanic voting age population (VAP). In fact, the Hispanic-preferred candidate won all five of the elections analyzed in western Adams County. The

<sup>&</sup>lt;sup>7</sup> In the context of determining if voting is racially polarized, election contests that include minority candidates are more probative than contests in which all of the candidates are white. This is because it is not sufficient for Hispanic or Black voters, for example, to be able to elect their candidates of choice only if these candidates are white. On the other hand, it is important to recognize that not all Hispanic or Black candidates are the preferred candidates of Hispanic or Black voters.

<sup>8</sup> The fifth election contest, House District 32 in 2020, was polarized according to the ER estimates but not the EI estimates.

<sup>&</sup>lt;sup>9</sup> In this election contest, the Hispanic candidate was not the candidate of choice of Hispanic voters.

Hispanic VAP is at least 35% in four of the districts examined: House Districts 30, 31 and 32; and Senate District 21.<sup>10</sup> Senate District 24 is approximately 25% Hispanic in voting age population, but Hispanic voters in this district also successfully elected their candidate of choice in a racially/ethnically polarized contest in 2018.

Weld County Three recent state legislative contests were analyzed: Senate District 23 in 2020 and House Districts 48 and 50 in 2018. The results can be found in the table labeled "Weld County" at the end of this report. All three contests were racially/ethnically polarized. The Hispanic-preferred candidate lost two of these contests (House District 48, 21.9% Hispanic VAP; Senate District 23, 12.8% Hispanic VAP), but won in House District 53, which has a Hispanic VAP of approximately 43%.

San Luis Valley and Pueblo County Eight recent state legislative election contests were examined in this area of the State: House Districts 46, 47 and 62 in both 2018 and 2020; Senate District 3 in 2018 and Senate District 35 in 2020. The table labeled "San Luis Valley and Pueblo County" appended at the end of this report lists the results of this analysis. Table 1, below, organizes the outcome by the Hispanic percentage VAP in the district.

Table 1: Summary of Results for San Luis Valley and Pueblo County

State Legislative District	Hispanic VAP	2018	2020
House District 62	43.9%	Polarized; Hispanic-preferred candidate won	Polarized; Hispanic- preferred candidate won
Senate District 3	40.2%	Not polarized	
House District 46	36.8%	Polarized; Hispanic-preferred candidate won	Polarized; Hispanic- preferred candidate won
House District 47	32.3%	Polarized; Hispanic-preferred candidate won	Polarized; Hispanic- preferred candidate lost
Senate District 35	32.3%		Polarized; Hispanic- preferred candidate lost

<sup>&</sup>lt;sup>10</sup> State House District 32 is the only district I examined that had a majority Hispanic VAP (54.3%). Senate District 21 is not majority Hispanic, but it is majority minority in composition.

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<sup>&</sup>lt;sup>11</sup> There were no contested election for Senate District 3 in 2020 or Senate District 35 in 2018.

Seven of the eight contests were racially/ethnically polarized but the Hispanic-preferred candidate won five of these seven contests – all in districts in which the Hispanic VAP exceeds 36%. On the other hand, the Hispanic-preferred candidate lost polarized elections in House District 47 and Senate District 35, both of which have Hispanic VAPs of approximately 32%.

Southern El Paso County The 2018 and 2020 contests in House District 17 included an African American candidate, Thomas Exum, Sr., who won in 2018 with 58.8% of the vote and in 2020 with 56.5% of the vote. These two contests were racially/ethnically polarized, with a majority of non-Hispanic whites supporting Exum's opponent in both instances. The district is 31.3% Hispanic and 12.6% Black in voting age population and the combined minority support for Exum was high.

Portion of Denver County The winning candidates in House Districts 5 and 7 in 2018 and 2020 were minority candidates: Latino Democrat Alex Valdez in House District 5 in 2018 and 2020, African American Democrat James Coleman in House District 7 in 2018, and African American Democrat Jennifer Bacon who ran unopposed in House District 7 in 2020. None of these elections was racially/ethnically polarized and the Hispanic-preferred candidates all won with at least 79% of the vote.

Lakewood I analyzed House District 28 election contests in 2018 and 2020. Neither of these contests were racially/ethnically polarized. The Hispanic-preferred candidate, Democrat Kerry Tipper, won both with over 57% of the vote.

Aurora Districts 40, 41 and 42, and Senate Districts 28 and 29 are all currently represented by Hispanic-preferred minority state legislators. All were elected in contests that were racially/ethnically polarized, <sup>12</sup> with Hispanic and Black voters supporting the winning Democratic candidates and the majority of non-Hispanic whites supporting their Republican opponents in these contests. In 2018, elections in House Districts 40, 41 and 42 were racially/ethnically polarized but the Hispanic and Black-preferred African American Democrats won all three contests with sizeable majorities. <sup>13</sup> House District 42 and Senate District 29 are majority minority in

<sup>&</sup>lt;sup>12</sup> African American Democrat Dominique Jackson ran unopposed in House District 42 in 2020 but was elected in 2018 in a racially/ethnically polarized election contest.

<sup>&</sup>lt;sup>13</sup> There were no elections in Senate Districts 28 and 29 in 2018.

composition;<sup>14</sup> minorities make up over 37% of the voting age population in House Districts 40 and 41 and Senate District 28.

Conclusion Voting in most of the areas of the State I have examined is racially/ethnically polarized. The exceptions to this pattern are the election contests in House Districts 5 and 7 in the Denver area and House District 28 in Lakewood. Even where voting is polarized, however, Hispanic or Hispanic and Black voters combined have been able to elect their candidates of choice if the Hispanic VAP is significant, though not necessarily at least 50%. For example, in western Adams County, Hispanic-preferred candidates were elected in House Districts 30 (39.1 % Hispanic VAP) and 31 (35.3% Hispanic VAP). In the San Luis Valley and Pueblo County area, House Districts 46 and 62 (36.8 and 43.9% Hispanic, respectively), and Senate District 3 (40.2% Hispanic) all elected Hispanic-preferred Hispanic candidates to the state legislature. However, districts with slightly fewer Hispanics of voting age are unsuccessful at consistently electing their preferred candidates.

### V. Calculating the Hispanic VAP Needed to Elect Hispanic-Preferred Candidates

As the discussion above illustrates, it is possible for districts with less than a majority Hispanic VAP to elect Hispanic voters' candidates of choice to the Colorado state legislature. But the percentage needed varies – there is no single universal or statewide demographic target that can be applied for Hispanic voters to elect their candidates of choice. A district-specific, functional analysis is required to determine whether a district is likely to provide minority voters with an opportunity to elect their candidates of choice. This analysis will produce different minority population percentages depending upon the location of the district and the participation rates and voting patterns of Hispanic and non-Hispanics in that specific area.

Using the estimates produced from the racial bloc voting analysis, I calculated the Hispanic VAP percentage needed to elect Hispanic-preferred candidates in each of the elections I examined. This calculation takes into account the relative participation rates of Hispanics and non-Hispanics, as well as the level of Hispanic support for the Hispanic-preferred candidates (the "cohesiveness" of Hispanic voters), and the level of non-Hispanics "crossing over" to vote for the Hispanic-preferred candidates.

<sup>&</sup>lt;sup>14</sup> House District 42 is 39.0% Hispanic, 20.4% Black, and 5.2% Asian in VAP. Senate District 29 is 30.0% Hispanic, 16.3% Black, and 5.7% Asian in VAP.

Equalizing minority and white turnout Because Hispanics who are eligible to vote often turn out to vote at lower rates than non-Hispanic voters in Colorado, the Hispanic VAP needed to ensure that Hispanic voters comprise at least half of the voters in an election is often higher than 50%. Once the respective turnout rates of Hispanic and non-Hispanic voters have been estimated using the two statistical techniques described above, the percentage needed to equalize Hispanic and non-Hispanic voters can be calculated mathematically. But equalizing turnout is only the first step in the process – it does not take into account the voting patterns of Hispanic and non-Hispanic voters. If voting is racially polarized but a significant number of non-Hispanic voters typically "crossover" to vote for Hispanic voters' preferred candidate, it may be the case that crossover voting can more than compensate for depressed Hispanic turnout.

Incorporating Minority Cohesion and White Crossover Voting Even if Hispanic voters are turning out at lower rates than non-Hispanics, and voting is racially polarized, if a relatively consistent percentage of non-Hispanic voters support Hispanic-preferred candidates, the candidates preferred by Hispanic voters can be elected even in districts that are less than majority Hispanic. As a consequence, a district-specific, functional analysis should take into account not

Let

M = the proportion of the district's voting age population that is Black

W = 1-M = the proportion of the district's voting age population that is white

A = the proportion of the Black voting age population that turned out to vote

B = the proportion of the white voting age population that turned out to vote

Therefore,

M(A) = the proportion of the population that is Black and turned out to vote (1) (1-M)B = the proportion of total population that is white and turned out to vote (2)

To find the value of M that is needed for (1) and (2) to be equal, (1) and (2) are set as equal and we solve for M algebraically:

$$M(A)$$
 =  $(1 - M) B$   
 $M(A)$  =  $B - M(B)$   
 $M(A) + M(B)$  =  $B$   
 $M(A + B)$  =  $B$   
 $M = B/(A+B)$ 

Thus, for example, if 39.3% of the Black population turned out and 48.3% of the white population turned out, B= .483 and A = .393, and M = .483/(.393+.483) = .483/.876 = .5513, therefore a Black VAP of 55.1% would produce an equal number of Black and white voters. (For a more in-depth discussion of equalizing turnout see Kimball Brace, Bernard Grofman, Lisa Handley and Richard Niemi, "Minority Voting Equality: The 65 Percent Rule in Theory and Practice," *Law and Policy*, 10 (1), January 1988.)

<sup>&</sup>lt;sup>15</sup> The equalizing percentage is calculated mathematically by solving the following equation:

only differences in turnout rates, but also the voting patterns of Hispanic and non-Hispanic voters. 16

To illustrate this mathematically, consider a district that has 1000 persons of voting age, 50% of who are Hispanic and 50% of who are non-Hispanic. Let us begin by assuming that Hispanic turnout is lower than non-Hispanic turnout in a two-candidate general election. In our hypothetical election example, 50% of the Hispanic VAP turn out to vote and 60% of the non-Hispanic VAP vote. This means that, for our illustrative election, there are 250 Hispanic voters and 300 non-Hispanic voters. Further suppose that 96% of the Hispanic voters supported their candidate of choice and 30% of the non-Hispanic voters cast their votes for this candidate (with the other 70% supporting her opponent in the election contest). Thus, in our example, Hispanic voters cast 240 of their 250 votes for the Hispanic-preferred candidate and their other 10 votes for her opponent; non-Hispanic voters cast 90 of their 300 votes for the Hispanic-preferred candidate and 210 votes for their preferred candidate. The two candidates in our example will receive the following number of votes under these conditions:

		Votes for Hispanic	Votes for non-Hispanic
	Voters	Preferred Candidate	Preferred Candidate
Hispanic	$500 \times .50 = 250$	250  x .96 = 240	$250 \times .04 = 10$
Non-Hispanic	$500 \text{ x } .60 = \underline{300}$	$300 \text{ x} . 30 = \underline{90}$	$300 \text{ x} . 70 = \underline{210}$
Votes	550	330	220

The candidate of choice of Hispanic voters received a total of 330 votes (240 from Hispanic voters and 90 from non-Hispanic voters), while the candidate preferred by non-Hispanic voters received only 220 votes (10 from Hispanic voters and 210 from non-Hispanic voters). The Hispanic-preferred candidate won the election with 60% (330/550) of the vote in this hypothetical 50% Hispanic VAP district. And the Hispanic-preferred candidate won the election

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<sup>&</sup>lt;sup>16</sup> For an in-depth discussion of this approach to creating effective minority districts, see Bernard Grofman, Lisa Handley and David Lublin, "Drawing Effective Minority Districts: A Conceptual Framework and Some Empirical Evidence," North Carolina Law Review, volume 79 (5), June 2001.

despite the fact that the election was racially/ethnically polarized and Hispanics turned out to vote at a lower rate than non-Hispanics. 17

In a district that is 45% Hispanic VAP rather than 50% Hispanic VAP, the Hispanicpreferred candidate still wins with 56.8% (315/555) of the vote, as shown below.

		Votes for Hispanic-	Votes for non-Hispanic
	Voters	Preferred Candidate	Preferred Candidate
Hispanic	450  x .50 = 225	$225 \times .96 = 216$	$225 \times .04 = 9$
Non-Hispanic	$550 \text{ x } .60 = \underline{330}$	$330 \times .30 = 99$	$303 \text{ x} .70 = \underline{231}$
Votes	555	315	240

Table 2, below, incorporates the estimates of turnout and votes by race/ethnicity (based on the EI analysis) listed in the tables at the end of this report and calculates the percentage Hispanic VAP needed for the Hispanic-preferred candidate to win each specific election contest. However, if voting is not polarized, no Hispanic percentage is calculated because the non-Hispanic voters would have elected the Hispanic-preferred candidate regardless of the Hispanic VAP. In addition, there were a number of election contests for which the turnout disparity between Hispanic and non-Hispanic voters was so high that the estimated percentage of Hispanics of voting age turning out to vote was too low and was not used to calculate the percent Hispanic needed to win.

<sup>&</sup>lt;sup>17</sup> In the illustrative example, VAP and voting patterns are known and the equation solves for percentage of votes received by the Hispanic-preferred candidate. In determining the percentage of Hispanic VAP needed to provide Hispanic voters with an opportunity to elect their candidates of choice, voting patterns and the percentage of votes are known and we are solving for the VAP needed to produce at least 50 percent of the votes for the Hispanic-preferred candidate.

Table 2: Percent Hispanic VAP Needed to Win

								percent of						
		turnou	it rate for	office and	d percent	vote for I	Hispanic-	vote B-P						
Colorado					pre	eferred ca	ndidates	cand would	cand would			cand would	percent	
Percent Hispanic VAP	candidate						have	have	have	have	have	Hispanic		
needed to win	ngi		Hionon	ic voters	N/	on-Hispan	io votom	received if	VAP must					
Contests with Hispanic			Піэраі	iic voters	INC	л-піърап	ic voters	district was	exceed for					
Candidates	Ŧ	votes			votes			55%	50%	45%	40%	35%	H-P	
	ace of	cast for		all	cast for		all	Hispanic	Hispanic	Hispanic	Hispanic		candidate to	
	ĭä	office	H-P	others	office	H-P	others	VAP	VAP	VAP	VAP	VAP	win	comments
Western Adams														
County														
2020 House District 30	W	19.2	90.4	9.6	73.2	45.3	54.7	56.2	54.7	53.3	52.0	50.9	30.7	polarized
2020 House District 32	Н	14.8	77.1	22.9	81.9	52.1	47.9	56.6	55.9	55.3	54.8	54.3		not polarized
2020 Senate District 21	Н	15.0	87.6	12.4	79.4	49.3	50.7	56.5	55.4	54.4	53.6	52.8	9.0	polarized but high crossover
2018 House District 31	Н													polarized, Hisp turnout est too low
2018 Senate District 24	W	10.8	72.0	28.0	67.5	47.9	52.1	51.8	51.2	50.7	50.2	49.8	37.4	polarized
Weld County			77.0		25.0	44.0	50.4	50.0	54.0	40.0	40.7	47.0	45.0	
2020 Senate District 23	Н	32.3	77.0	23.0	85.8	41.6	58.4	52.8	51.3	49.9	48.7	47.6	45.2	polarized
2018 House District 48	В													polarized, Hisp turnout est too low
2018 House District 50	Н													polarized, Hisp turnout est too low
San Luis Valley and Pueblo County														
2020 House District 46	Н	38.9	89.4	10.6	91.3	32.1	67.9	51.7	49.2	46.9	44.8	42.8	51.6	polarized
2020 House District 47	H	36.6	90.2	9.8	84.5	25.4	74.6	47.8	45.0	42.4	39.9	37.7		polarized
2020 House District 62	Н	44.5	91.8	8.2	83.8	34.0	66.0	56.7	54.0	51.5	49.1	46.9		polarized
2020 House District 62	Н	48.1	81.9	18.1	80.4	20.9	79.1	46.7	43.7	40.9	38.3	35.8		polarized
2018 House District 46	Н	27.4	98.6	1.4	73.6	35.9	64.1	55.5	52.9	50.5	48.4	46.4		polarized
2018 House District 47	<u>п</u>	28.8	90.9	9.1	63.6	31.8	68.2	52.9	50.2	47.8	45.5	43.4		polarized
2018 House District 47	 Н	34.8	89.9	10.1	66.0	34.6	65.4	56.3	53.7	51.3	49.0	45.4		polarized
2018 Senate District 3	<u>п</u>	25.1	99.9	0.1	65.2	56.5	43.5	70.4	68.6	66.9	49.0 65.4	64.0	42.3	not polarized
Southern El Paso	п	20.1	33.3	0.1	00.2	30.3	43.3	70.4	00.0	00.9	00.4	04.0		not polarized
County														
2020 House District 17	В	40.5	80.2	19.8	52.1	30.0	70.0	54.5	52.0	49.5	47.1	44.8	46.0	all minority voters combined
2018 House District 17	В	16.1	82.8	17.2	48.7	31.4	68.6	46.2	44.2	42.3	40.7	39.2		all minority voters combined
2310110000 Biotilot 11		10.1	52.0	11.2	10.7	21.7	30.0	10.2	7712	72.0	70.7	00.2	3,00	

### Table 2 (continued)

Percent Hispanic VAP needed to win Contests with Hispanic Candidates  Candidates  Portion of Denver County  2020 House District 5  H 44.0 87.5 12.5 62.3 75.8 24.2 81.2 80.6 80.1 79.5 79.0 not polarized  2018 House District 5  Hispanic VAP needed to win Contests with Hispanic VAP needed to win Contests with Hispanic VAP needed to win Contests with Hispanic Candidates  Candidates  Cand would have neceived if district was district was district was district was 45% 40% 35% H-P district was 55% 45% Hispanic VAP	
Candidates votes all cast for office H-P others office H-P others votes all cast for County 2020 House District 5 H 44.0 87.5 12.5 62.3 75.8 24.2 81.2 80.6 80.1 79.5 79.0 not polarized 2018 House District 5 H 41.4 89.0 11.0 44.1 75.0 25.0 82.5 81.8 81.1 80.4 79.7 not polarized	
Portion of Denver County         County         87.5         12.5         62.3         75.8         24.2         81.2         80.6         80.1         79.5         79.0         not polarized           2018 House District 5         H         41.4         89.0         11.0         44.1         75.0         25.0         82.5         81.8         81.1         80.4         79.7         not polarized	
County         2020 House District 5         H         44.0         87.5         12.5         62.3         75.8         24.2         81.2         80.6         80.1         79.5         79.0         not polarized           2018 House District 5         H         41.4         89.0         11.0         44.1         75.0         25.0         82.5         81.8         81.1         80.4         79.7         not polarized	=
2020 House District 5     H     44.0     87.5     12.5     62.3     75.8     24.2     81.2     80.6     80.1     79.5     79.0     not polarized       2018 House District 5     H     41.4     89.0     11.0     44.1     75.0     25.0     82.5     81.8     81.1     80.4     79.7     not polarized	
2018 House District 5 H 41.4 89.0 11.0 44.1 75.0 25.0 82.5 81.8 81.1 80.4 79.7 not polarized	
laster metrical al cal acal cal acal casi casi seal saul saul saul saul saul seal seal le ce	
2018 House District 7 B 1.0 90.8 9.2 74.5 80.8 19.2 81.0 80.9 80.9 80.9 80.9 not polarized	
Lakewood	
2020 House District 28 32.6 70.6 29.4 77.7 54.4 45.6 59.9 59.2 58.5 57.9 57.4 not polarized	
2018 House District 28 0.5 83.2 16.8 72.4 52.7 47.3 53.0 52.9 52.9 52.8 52.8 not polarized  Aurora: Hispanic -	
nonHispanic	
2020 House District 40 36.4 63.2 36.8 61.8 58.2 41.8 60.3 60.1 59.8 59.6 59.4 Hisp & nonHisp not pola	ized
2020 House District 41 0.7 92.9 7.1 69.5 62.3 37.7 62.7 62.6 62.6 62.5 62.5 Hisp & nonHisp not pola	ized
2020 Senate District 28 15.2 87.8 12.2 76.2 87.8 12.2 87.8 87.8 87.8 87.8 87.8 87.8 Hisp & nonHisp not pola	ized
2020 Senate District 28 5.8 99.2 0.8 67.8 62.5 37.5 66.0 65.4 64.9 64.5 64.1 Hisp & nonHisp not pola	ized
2018 House District 40 20.2 77.7 22.3 57.5 60.7 39.3 65.8 65.1 64.5 63.9 63.4 Hisp & nonHisp not pola	ized
2018 House District 41 1.2 97.3 2.7 54.8 60.3 39.7 61.3 61.1 61.0 60.8 60.7 Hisp & nonHisp not pola	ized
2018 House District 42 11.2 77.3 22.7 58.2 71.9 28.1 72.9 72.8 72.6 72.5 72.4 Hisp & nonHisp not pola	ized
Aurora: Hispanic - NHWhite	
2020 House District 40 36.4 63.2 36.8 92.5 43.0 57.0 49.6 48.7 47.9 47.2 46.5 57.4 Hisp & NHWhite polarize	
2020 House District 41 0.7 92.9 7.1 91.3 46.1 53.9 46.5 46.4 46.3 46.3 Hisp & NHW polarized, I	
2020 House District 41 0.7 92.9 7.1 91.3 46.1 53.9 46.5 46.5 46.5 46.4 46.3 46.1 55.3 Hisp & NHW polarized, if 2020 Senate District 28 15.2 87.8 12.2 94.6 42.5 57.5 49.9 48.8 47.8 46.9 46.1 55.3 Hisp & NHWhite polarized	
2020 Senate District 28 5.8 99.2 0.8 90.7 38.1 61.9 42.5 41.8 41.1 40.6 40.1 Hisp & NHW polarized, I	
2018 House District 40 20.2 77.7 22.3 84.3 45.6 54.4 52.9 51.8 50.9 50.0 49.3 39.9 Hisp & NHWhite polarized	
2018 House District 41 1.2 97.3 2.7 84.1 42.2 57.8 43.1 43.0 42.8 42.7 42.6 Hisp & NHW polarized, I	
2018 House District 42 11.2 77.3 22.7 89.3 42.7 57.3 47.3 46.6 45.9 45.4 44.9 68.1 Hisp & NHWhite polarized	THE PERSON NAMED IN

I analyzed five recent state legislative elections in *western Adams County*. One of the contests was not polarized based on the EI estimates (2020 House District 32). In another contest, the estimates Hispanic turnout percentage was unrealistically low (.7% in the 2018 contest in House District 31). The Hispanic VAP needed for the Hispanic-preferred candidate to win election with at least 50% of the vote had to exceed 30.7% in the 2020 House District 30 contest and 37.4% in the 2018 Senate District 24 contest. The very high percentage of non-Hispanic vote for the Hispanic candidate of choice in the 2020 state senate election in District 21 meant that very few Hispanics were needed for this candidate to win that election.

Two of the contests in *Weld County* yielded Hispanic turnout estimates that were unrealistically low, hence the Hispanic percent needed to win could be calculated for only one contest: the 2020 election in Senate District 23. This contest produced a percentage needed to win of 45.2% Hispanic VAP. However, the Hispanic-preferred candidate won House District 50, which is 43.3% Hispanic VAP, in 2018.

Only one election contest in the *San Luis Valley and Pueblo County* area was not racially/ethnically polarized. The other seven contests produced a wide range of Hispanic VAP percentages needed to win, from 41.9% (2020 House District 62) to 60.4% (2020 Senate District 35). The Hispanic-preferred candidate easily won House District 62 (43.9% Hispanic VAP) in both 2018 and 2020. But Hispanic-preferred candidates also won House District 46, which has only a 36.8% Hispanic VAP. For this reason, it is important to consider both the estimated percentages and the actual Hispanic VAP percentages of districts in which Hispanic-preferred candidates are successful.

Because the estimates of Hispanic turnout for the two elections in House District 17, in southern El Paso County, are unrealistically low, and the Black percentage of the district is not insubstantial (and Hispanic and Black voters supported the same candidate in both elections), I combined all minority voters together and calculated the percentage minority VAP needed to win based on comparing the voting patterns of non-Hispanic whites and all minorities combined. But this produced percentage estimates that were higher than the combined minority percentage of District 17 (43.9% Hispanic and Black together), and the minority-preferred candidate actually won the district in both 2018 and 2020.

Because the state legislative elections in the *Denver* area and *Lakewood* (House Districts 5 and 7; House District 28) were not polarized, no Hispanic VAP needed to win was calculated – non-Hispanics voting alone would have elected the Hispanic-preferred candidates without any support needed from Hispanic voters.

The seven contests analyzed in Aurora are complicated by the relatively high number of Black voters that are combined with non-Hispanic white voters when Hispanic voters are compared to non-Hispanic voters. Because Black voters support the same candidates as Hispanic voters in these elections, the contests appear to not be polarized when all non-Hispanics are considered together. However, when Hispanic voters and non-Hispanic white voters are compared, all of the contests are polarized and the Hispanic percentage needed to win can be calculated. The calculated percentage therefore reflects the percent Hispanic VAP compared to non-Hispanic white VAP and not all non-Hispanic VAP that might be combined to make a district. In other words, while the first set of calculations - comparing Hispanics and non-Hispanics – suggests no Hispanics are needed because voting is not polarized, the second set of calculations - Hispanic and non-Hispanic whites - is only useful if the only groups to be included in the proposed districts are Hispanics and non-Hispanic whites. The second set of estimates are overestimates if Black voters are also included in the proposed districts. As noted above House District 42 is 39% Hispanic VAP and Senate District 29 is 30% Hispanic VAP and both elect Hispanic-preferred candidates, but both are actually majority minority districts when all minority groups are considered. While Hispanics make up less than 20% of the VAP in House Districts 40 and 41 and Senate District 28, all minorities combined comprise over 37% of the voting age population in each instance and the Hispanic-preferred candidate wins the elections analyzed.

#### VI. Conclusion

Voting in recent state legislative elections in several areas of the State of Colorado that I examined is racially/ethnically polarized. The exceptions to this are recent legislative elections in House Districts 5 and 7 in the Denver area and House District 28 in Lakewood. Despite this pattern of polarized voting in several areas of Colorado, Hispanic voters or, in Aurora, Hispanic and Black voters combined, have been able to elect their candidates of choice in many of these districts. This is because a sufficient number of eligible Hispanics of voting age have been combined with

enough crossover non-Hispanic voters to provide Hispanic voters with an opportunity to elect their preferred candidates to the state legislature in these districts, even though most of these districts are not majority Hispanic in voting age population. As noted above, in western Adams County, Hispanic-preferred candidates are elected in House Districts 30 (39.1 % Hispanic VAP) and 31 (35.3% Hispanic VAP). In the San Luis Valley and Pueblo County area, House Districts 46 and 62 (36.8 and 43.9% Hispanic, respectively), and Senate District 3 (40.2% Hispanic) all elect Hispanic-preferred Hispanic candidates to the state legislature.

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<sup>&</sup>lt;sup>18</sup> There are no majority Hispanic VAP senate districts in the State – the highest concentration of Hispanics can be found in Senate District 21, which has a 48.4% Hispanic VAP. There in only one majority Hispanic VAP state house district, District 32. This district easily elected Hispanic-preferred Hispanic candidate, Adrienne Benavidez, with 63.7% of the vote in a three-candidate race in 2020.

Western Adams County					Estimates for NonHispanic Voters		Estima Hispanio		Estimates for NonHispanic White Voters	
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI
2020 General Election										
House District 30	39.1									
Michealson Jenet		D		56.9	22.3	45.3	87.2	90.4	9.1	18.6
Gutierrez		R	Н	43.2	77.7	54.5	12.8	10.4	90.9	81.4
Turnout of VAP					87.9	73.2	16.3	19.2	100.0	97.7
House District 32	54.3									
Benavidez		D	Н	63.7	44.0	52.1	71.9	77.1	41.2	51.4
Caputo		R		30.4	49.8	39.8	23.8	18.7	52.7	39.6
Chapman		L		5.9	6.2	6.3	4.3	5.4	6.0	5.6
Turnout of VAP					84.9	81.9	3.7	14.8	100.0	<i>95.3</i>
Senate District 21	48.4									
Moreno		D	Н	63.6	39.8	49.3	77.0	87.6	31.1	40.4
Mendez		R	Н	36.5	60.2	50.6	23.0	14.0	68.9	59.7
Turnout of VAP					86.6	79.4	17.1	15.0	100.0	94.9
2018 General Election										
House District 31	35.3									
Caraveo		D	Н	55.0	39.5	43.9	88.5	88.2	34.1	35.9
Figueroa		R	Н	38.6	53.8	50.2	4.3	4.0	58.0	58.1
Owens		L		6.4	6.7	6.1	7.2	7.2	7.9	6.6
Turnout of VAP					62.7	65.7	0.0	0.7	83.4	85.1
Senate District 24	25.2									
Winter		D		52.3	43.4	47.9	69.1	72.0	38.6	42.4
Martinez Humenik		R	Н	39.8	49.4	45.6	17.1	14.4	56.6	52.5
Others				7.9	7.2	6.9	13.7	12.5	4.8	4.6
Turnout of VAP					58.4	67.5	0.0	10.8	86.7	82.9

Weld County					Estima NonHispar		Estima Hispanio	tes for Voters	Estimates for NonHispanic White Voters		
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	
2020 General Election											
Senate District 23	12.8										
Boccella		D	Н	44.9	35.9	41.6	75.2	77.0	26.9	34.0	
Kirkmeyer		R		55.1	64.1	58.3	24.8	23.3	73.1	65.8	
Turnout of VAP					88.2	85.8	3.6	32.3	100.0	89.3	
2018 General Election											
House District 48	21.9										
Ajiboye		D		32.2	29.4	27.4	63.0	56.2	25.0	20.8	
Humphrey		R		67.8	70.6	72.6	37.0	43.8	75.0	79.2	
Turnout of VAP					74.2	70.4	2.9	0.1	82.4	77.9	
House District 50	43.3										
Galindo		D	Н	53.4	na	40.5	79.2	79.7	na	35.5	
Thuener		R		46.6	na	59.4	20.8	20.0	na	64.5	
Turnout of VAP					51.9	55.6	0.0	0.8	62.9	66.7	

San Luis Valley and Pu	eblo Coun	ity			Estimat NonHispar		Estima Hispanio		Estimates for NonHispanic White Voters		
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	
2020 General Election											
House District 46	36.8										
Esgar		D	Н	53.2	37.2	32.1	100.0	89.4	32.5	26.4	
Ambler		R		43.1	58.3	67.3	0.0	5.4	63.5	71.1	
Pickerill		L		3.7	4.5	3.9	3.7	3.5	4.0	3.1	
turnout of VAP					73.1	91.3	32.8	38.9	80.8	94.4	
House District 47	32.3										
Buentello		D	Н	45.9	23.1	25.4	100.0	90.2	6.2	15.9	
Luck		R		54.1	76.9	74.6	0.0	10.1	93.8	84.2	
turnout of VAP					69.0	84.5	21.1	36.6	83.0	90.5	
House District 62	43.9										
Valdez		D	Н	57.8	35.1	34.0	87.4	91.8	32.1	30.1	
Taggart		R		42.2	64.9	65.6	12.6	8.0	67.9	69.9	
turnout of VAP					80.6	83.8	55.6	44.5	84.7	87.9	
Senate District 35	32.3										
Lopez		D	Н	39.9	15.1	20.9	80.2	81.9	9.6	17.8	
Simpson		R		60.1	84.9	78.8	19.8	18.0	90.4	82.3	
turnout of VAP					71.3	80.4	52.3	48.1	77.8	85.9	
2018 General Election											
House District 46	36.8										
Esgar		D	Н	58.7	38.9	35.9	100.0	98.6	32.3	32.5	
Ambler		R		41.3	61.1	64.0	0.0	0.9	67.7	67.6	
turnout of VAP					53.0	73.6	20.4	27.4	61.5	80.1	
House District 47	32.3										
Buentello		D	Н	50.5	31.4	31.8	100.0	90.9	13.3	24.1	
Bendell		R		49.5	68.6	68.2	0.0	9.2	86.7	75.9	
turnout of VAP					52.1	63.6	10.7	28.8	63.9	76.6	
House District 62	43.9										
Valdez		D	н	56.8	33.2	34.6	92.7	89.9	29.7	27.3	
Honeycutt		R	<u> </u>	43.2	66.8	65.5	7.3	10.2	70.3	72.7	
turnout of VAP				.512	65.1	66.0	40.2	34.8	69.5	75.1	
Senate District 3	40.2				05.1	00.0	70.2	54.0	05.5	, 5.1	
Garcia	10.2	D	н	73.6	60.6	56.5	100.0	99.9	51.0	52.1	
Pickerill		L	<u> </u>	26.4	39.4	43.5	0.0	0.1	49.0	47.9	
turnout of VAP		-		2017	42.2	65.2	22.6	25.1		73.0	

Southern El Paso Cour	nty				Estima NonHispar		Estima Hispanio		Estima NonHispa Vot	nic White	Estimates for All Minority Voters Combined	
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	ER	EI
2020 General Election												
House District 17	31.3% HV	AP; 12.6	% BVAP									
Exum, Sr.		D	В	56.8	46.2	54.8	56.9	64.6	27.0	30.0	74.4	80.2
Blancken		R		37.4	49.5	40.1	28.8	29.3	66.5	64.6	18.9	13.7
Quilleash		L		5.8	4.3	3.8	14.3	12.1	6.5	5.9	6.7	5.8
Turnout of VAP					54.8	58.4	0.0	1.1	54.3	52.1	15.0	40.5
2018 General Election												
House District 17	31.3% HV	/AP; 12.6	% BVAP									
Exum		D	В	58.8	46.2	56.3	72.7	66.4	29.0	31.4	79.2	82.8
Roupe		R		41.2	53.8	43.8	27.3	33.4	71.0	68.5	20.8	16.5
Turnout of VAP					37.7	41.7	0.0	0.1	38.9	48.7	3.9	16.1

Portion of Denver Cou	nty				Estima nonHispai		Estima Hispanio	tes for Voters	Estimates for NonHispanic White Voters		
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	
2020 General Election											
House District 5											
Valdez	30.5	D	Н	79.1	78.0	75.8	88.0	87.5	79.6	75.1	
Woodley		R		19.5	19.5	22.9	9.4	11.5	18.4	23.8	
Richardson		U		1.4	2.5	1.1	2.6	2.0	2.0	0.8	
Turnout of VAP					61.3	62.3	43.2	44.0	71.1	69.4	
2018 General Election											
House District 5	30.5										
Valdez		D	Н	79.0	79.7	75.0	92.9	89.0	80.7	74.2	
Whitney		R		17.9	17.4	21.6	4.8	8.9	16.4	21.8	
Lamberton		L		3.1	2.9	3.4	2.3	5.1	2.9	3.4	
Turnout of VAP					43.7	44.1	35.6	41.4	53.9	51.2	
					Estima Hispanio		Estimates Vot		Estimat NonHispar Vote	nic White	
	Percent Hispanic VAP	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	
2018 General Election											
House District 7	37.4 H/	20.6 B									
Coleman		D	В	83.6	91.9	90.8	95.2	92.9	88.6	80.8	
Kucera		R		16.4	8.1	8.9	4.8	9.8	11.4	19.3	
Turnout of VAP					0.0	1.0	0.0	41.9	92.4	74.5	

Lakewood				Estima NonHispa		Estimates for Vot		Estimates for NonHispanic White Voters		
	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	
2020 House District 28										
Hildebrand	L		5.5	5.2	5.1	7.1	7.1	5.3	5.1	
Tipper	D		57.6	59.4	54.4	71.7	70.6	56.0	51.6	
Roybal	R		36.9	35.4	39.7	21.3	24.0	38.7	41.9	
turnout of VAP				50.6	77.7	18.7	32.6	63.0	84.5	
2018 House District 28										
Tipper	D		58.7	53.9	52.7	83.6	83.2	50.3	51.2	
Joy Alley	R		38.0	43.8	45.1	8.1	8.5	47.9	46.2	
Kloof	L		3.3	2.4	0.7	8.4	9.1	1.8	2.2	
turnout of VAP				49.4	72.4	0.0	0.5	64.2	77.2	

Aurora	Aurora					Estimat nonHis Vote	panic	Estima: Hispanio		Estimates for Black Voters		
	Party	Race/ Ethnicity	Percent of Vote	ER	EI	ER	EI	ER	EI	ER	EI	
2020 General Election												
2020 House District 40												
Ricks	D	В	59.2	37.8	43.0	49.3	58.2	60.8	63.2	100.0	99.4	
Bassett	R		36.7	60.6	51.5	48.2	38.2	31.8	28.1	0.0	0.2	
Harrison	L		4.2	1.6	1.0	2.5	3.7	7.5	6.7	0.0	8.5	
turnout of VAP				90.8	92.5	72.2	61.8	39.3	36.4	0.0	1.0	
2020 House Distrtict 41												
Jodeh	D	M.E.	66.0	40.7	46.1	47.2	62.3	92.4	92.9	100.0	99.6	
Andrews	R		34.0	59.3	53.5	52.8	37.6	7.6	4.0	0.0	0.4	
turnout of VAP				95.1	91.3	86.9	69.5	0.0	0.7	0.0	0.3	
2020 Senate District 28												
Buckner	D	В	61.9	46.3	42.5	59.4	87.8	88.0	87.8	100.0	99.6	
Stecher	R		38.1	53.7	57.7	40.6	11.5	12.0	11.5	0.0	0.2	
turnout of VAP				92.3	94.6	73.1	76.2	9.0	15.2	0.0	0.3	
2020 Senate District 29												
Poague	R		31.3	65.4	62.0	32.7	37.6	0.0	0.6	0.0	0.9	
Fields	D	В	68.7	34.6	38.1	67.3	62.5	100.0	99.2	100.0	98.8	
turnout of VAP				85.7	90.7	53.8	67.8	0.0	5.8	0.0	0.3	
2018 General Election												
2018 House District 40												
Buckner	D	В	63.1	45.4	45.6	56.9	60.7	74.0	77.7	100.0	98.6	
Bassett	R		36.9	54.6	54.5	43.1	39.3	26.0	22.9	0.0	0.1	
turnout of VAP				72.1	84.3	52.0	57.5	7.1	20.2	0.0	4.2	
2018 House District 41												
Melton	D	В	64.4	39.6	42.2	49.3	60.3	100.0	97.3	100.0	98.1	
Myers	R		35.6	60.4	57.9	50.7	39.7	0.0	2.6		0.2	
turnout of VAP				82.7	84.1	69.5	54.8	0.0	1.2	0.0	0.8	
2018 House District 42												
Jackson	D	В	73.3	44.1	42.7	73.0	71.9	80.8	77.3	100.0	100.0	
Donald	R		26.7	55.9	57.7	27.0	27.9	19.2	21.7	_	0.4	
turnout of VAP				98.9	89.3	31.7	58.2	0.0	11.2	2.2	15.6	

In re Colorado Independent Legislative Redistricting Commission

#### Exhibit 10

Staff Analysis Regarding Voting Rights Act

#### Attachments A, B, C, and D: Application of Voting Rights Act Compliance Policy to Final Senate Plan

The table in Attachment A shows the application of the "Geographic Overlap" analysis to the final Senate plan adopted by the commission. This table shows that it is unlikely there is racially polarized voting in proposed Senate District 3. Also, as can be seen by comparing the "Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in SD [X]" column to the "Hispanic Voting Age Population Percentage" column, proposed Senate District 21 exceeds the minority voting age population numbers that must be met for the minority candidate of choice to be elected. This is not the case with proposed Senate Districts 23, 24, 25, and 35. This can be explained for proposed Senate District 23 because in order to have sufficiently high Hispanic voting age population this proposed district would need to gain approximately thirty-two percent Hispanic voting age population, which suggests that the first Gingles v. Thornburg, 478 U.S. 30 (1986), factor could not be satisfied in this district. If the boundaries of the surrounding proposed districts were able to be redrawn to place a sufficient amount of Hispanic voting age population in proposed Senate District 23 to allow the Hispanic voters to elect their candidate of choice, the additional Hispanic voting age population would most likely need to be drawn from proposed Senate District 13. This would likely result in the Hispanic voting age population in proposed Senate District 13 no longer residing in a competitive district where there was a reasonable chance that their preferred candidate would be elected. Proposed Senate Districts 24 and 25 only cover approximately sixty percent of the geographic area of current Senate District 24. A large number of the voters in proposed Senates District 24 and 25 are majority voters who are likely to vote for the minority candidate of choice. Thus, as described below, the minority candidate of choice is reasonably likely to be elected in proposed Senate Districts 24 and 25. Finally, although current Senate District 35 shares a relatively large amount of area with proposed Senate District 35, it does not share a large number of voters. More specifically, proposed current Senate District 35 does not cover the San Luis Valley, but instead covers a large portion of the Eastern Plains.

The table in Attachment B shows the application of the "Voter Overlap" analysis to the Final Senate Plan based on 2018 and 2020 State Senate races. Looking at the "Share of Votes Cast in Election with Minority Preferred Candidates in the Proposed Senate District" column, only Senate Districts 3, 21, 23, 24, 25, and 29 had more than fifty percent of their votes cast in elections with minority preferred candidates. Among these Senate Districts, looking at the "Share of Votes Received by Minority Preferred Candidates in the Proposed Senate District" column, minority preferred candidates could reasonably be predicted to be elected in Senate Districts 3, 21, 24, 25 and 29, but not in the Senate District 23. Senate District 23 was discussed above.

Finally, the Voting Age Population tables for the current districts in Attachment C shows there are currently four majority minority voting age population Senate Districts. The Voting Age Population table for the Final Senate Plan in Attachment D shows that there are four proposed majority minority Senate Districts in the Final Senate Plan.

Accordingly, staff believes that the Final Senate Plan complies with the federal Voting Rights Act because there are no districts that meet all of the three preconditions described in *Gingles*.

## Attachment A

Proposed Senate District #	Hispanic Voting Age Population Percentage	Hispanic Citizen Voting Age Population Percentage	% of Geographic V. Area of Current SD 3 in Proposed District c	Hispanic preferred	% of Geographic Area of Current SD 21 in Proposed District	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in SD 21	% of Geographic Area of Current SD 23 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in SD 23	% of Geographic Area of Current SD 24 in Proposed District			Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to Win in SD 35
3	37.98%	38.77%	99.99% N	IOT POLARIZED		9.00%		45.20%		37.40%		60.40%
21	44.94%	37.99%	N	IOT POLARIZED	95.08%	9.00%		45.20%		37.40%		60.40%
23	13.77%	11.14%	N	IOT POLARIZED		9.00%	72.04%	45.20%		37.40%		60.40%
24	34.29%	26.10%	N	IOT POLARIZED		9.00%		45.20%	54.63%	37.40%		60.40%
25	19.22%	15.91%	N	IOT POLARIZED		9.00%		45.20%	45.37%	6 37.40%		60.40%
35	18.70%	17.97%	N	IOT POLARIZED		9.00%		45.20%		37.40%	59.38%	60.40%

## Attachment B

	Share of Votes Received by	Share of Votes Cast in
	Minority Preferred Candidates	Elections with Minority
Proposed Senate	in Elections in the Proposed	Preferred Candidates in the
District	Senate District	Proposed Senate District
	1 27.79	% 7.6%
;	66.89	% 100.0%
4	1 29.29	% 3.4%
(	46.49	% 29.9%
1	5 27.39	% 0.1%
17	7 50.99	% 13.1%
19	9 66.69	% 2.0%
2	1 63.39	% 83.9%
23	36.19	% 76.5%
24	51.69	% 53.5%
2	56.99	% 100.0%
2	7 58.09	% 24.9%
28	60.79	% 26.3%
29	64.39	% 60.5%
3	37.89	% 40.5%

## Attachment C

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
D1	18.71%	1.79%	24.75%
D2	11.27%	4.01%	22.30%
D3	40.20%	2.41%	47.87%
D4	8.61%	1.86%	18.42%
D5	17.03%	0.85%	22.59%
D6	12.55%	0.52%	21.62%
D7	12.77%	0.91%	19.76%
D8	17.12%	0.76%	22.62%
D9	9.01%	3.28%	21.10%
D10	13.90%	5.39%	28.09%
D11	23.65%	9.67%	41.65%
D12	16.15%	7.99%	33.82%
D13	36.36%	2.16%	43.73%
D14	11.22%	1.89%	21.23%
D15	10.14%	0.86%	16.52%
D16	10.14%	1.21%	19.17%
D17	17.32%	1.31%	26.81%
D18	8.17%	1.41%	19.35%
D19	13.99%	1.44%	22.88%
D20	12.38%	1.36%	21.12%
D21	48.41%	2.71%	58.37%
D22	19.82%	2.00%	30.05%
D23	12.77%	1.13%	21.94%
D24	25.17%	2.07%	36.93%
D25	39.10%	5.52%	53.03%
D26	14.23%	7.38%	30.64%
D27	9.12%	4.66%	26.21%
D28	18.63%	13.98%	45.10%
D29	30.05%	16.83%	57.07%
D30	8.02%	1.81%	21.36%
D31	13.13%	9.01%	30.47%
D32	24.63%	2.77%	35.43%
D33	29.19%	19.43%	57.67%
D34	30.84%	4.25%	42.14%
D35	32.34%	1.54%	38.77%

## Attachment D

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
D1	21.39%	1.66%	27.30%
D2	9.32%	2.04%	19.45%
D3	37.98%	2.20%	45.37%
D4	8.45%	1.86%	16.07%
D5	19.00%	0.64%	24.63%
D6	19.04%	0.65%	28.10%
D7	12.51%	0.88%	19.44%
D8	15.41%	0.78%	20.73%
D9	8.96%	3.33%	21.50%
D10	14.07%	5.73%	28.91%
D11	25.63%	11.20%	46.10%
D12	14.89%	6.96%	30.45%
D13	41.24%	2.41%	49.16%
D14	11.40%	1.86%	20.91%
D15	9.12%	0.85%	15.51%
D16	9.42%	1.41%	17.72%
D17	17.79%	1.30%	27.25%
D18	8.52%	1.50%	20.82%
D19	13.78%	1.38%	22.57%
D20	10.59%	1.19%	19.43%
D21	44.94%	2.67%	54.48%
D22	20.32%	2.15%	30.24%
D23	13.77%	0.85%	21.11%
D24	34.29%	2.11%	45.91%
D25	19.22%	1.97%	31.41%
D26	15.43%	7.63%	33.03%
D27	11.74%	8.08%	34.50%
D28	37.15%	16.66%	64.62%
D29	22.82%	17.72%	51.20%
D30	7.82%	1.77%	21.27%
D31	10.69%	5.86%	24.06%
D32	26.39%	6.36%	41.45%
D33	31.31%	20.40%	60.76%
D34	34.09%	3.54%	44.50%
D35	18.70%	2.19%	26.74%

## Attachments A, B, C, D, and E: Application of Voting Rights Act Compliance Policy to the Final House Plan

The table in Attachment A shows the application of the "Geographic Overlap" analysis to the Final House Plan. This table shows that it is unlikely there is racially polarized voting in proposed House Districts 5, 7, 28, and 32. Also, as can be seen by comparing the "Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD [X]" column to the "Hispanic Voting Age Population Percentage" column, proposed House Districts 17 and 62 exceed the minority voting age population numbers that must be met for the minority candidate of choice to be elected. This is not the case with proposed House Districts 46, 47, and 56. This can be explained for proposed House District 56 because only approximately half of the geographic area of current House District 30 is contained within proposed House District 56 and current House District 30 does not share a large number of voters with proposed House District 56. Similarly, although proposed House District 47 covers a large amount of the geographic area of current House District 47, it does not contain a large number of the voters in current House Districts 47. Most notably, the population center of Pueblo is in current House District 47, but not proposed House District 47. Proposed House District 46, although not a majority minority district, is relatively close to being one and, according to the analysis described below, is reasonably likely to elect a minority preferred candidate.

The tables in Attachment B and Attachment C show the application of the "Voter Overlap" analysis to the Final House Plan based on 2018 and 2020 State House races. Looking at the "Share of Votes Cast in Election with Minority Preferred Candidates in the Proposed House District" column, only House Districts 5, 7, 17, 30, 32, 40, 42, 46, 47, and 62 had more than fifty percent of their votes cast in elections with minority preferred candidates. Among these House Districts, looking at the "Share of Votes Received by Minority Preferred Candidates in Elections in the Proposed House District" column, minority preferred candidates could reasonably be predicted to be elected in the following House Districts 5, 7, 17, 30, 32, 40, 42, 46, and 62, but not in House District 47. As discussed above, this can be explained by the fact that proposed House District 47 no longer includes parts of Pueblo, instead proposed House Districts 46 and 62 contain a large amount of the Hispanic voting age population in the Pueblo area and, as shown in Attachments B and C, are both likely to elect a minority preferred candidate.

The Voting Age Population tables for the current districts in Attachment D shows that there are currently seven majority minority voting age population House Districts, including one majority Hispanic voting age population district. The Voting Age Population table for the Final House Plan in Attachment E shows that there are ten majority minority proposed House Districts in the Final House Plan.

Accordingly, staff believes that the Final House Plan complies with the federal Voting Rights Act because there are no districts that meet all of the three preconditions described in *Gingles v. Thornburg*, 478 U.S. 30 (1986), except House District 62 that has been drawn to create a district in which the Hispanic preferred candidate has a reasonable chance of being elected.

#### Attachment A

Proposed House District #	Hispanic Voting Age Population Percentage	Hispanic Citizen Voting Age Population Percentage	% of Geographic Area of Current HD 5 in Proposed District	VAP must exceed for Hispanic preferred candidate to win in HD 5 in 2018	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 5 in 2020	% of Geographic Area of Current His 7 in Proposed District VAP must e for Hispa preferred ca to win in I	Area of Current 17 in Propose D 7 District	ic VAP must exceed HD for Hispanic d preferred candidate to win in HD 17 in 2018	VAP must exceed for Hispanic preferred candidate to win in HD 17 in 2020	% of Geographic Area of Current HD 28 in Proposed District	Percent Hispanic VAP must exceed for Hispanic preferred candidate to win in HD 28	% of Geographic Area of Current HD 30 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 30	% of Geographic Area of Current HD 32 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 32	% of Geographic Area of Current HD 46 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 46 in 2018	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 46 in 2020	% of Geographic Area of Current HD 47 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 47 in 2018	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 47 in 2020	% of Geographic Area of Current HD 62 in Proposed District	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 62 in 2018	Percent Hispanic VAP must exceed for Hispanic Preferred Candidate to win in HD 62 in 2020
	5 28.63%	29.34%			NOT POLARIZED	NOT POLARIZ		63.20%			NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%			42.30%	
	7 44.19%	33.77%		NOT POLARIZED	NOT POLARIZED	88.06% NOT POLARIZ	:D	63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90%
1	7 *53.02%	24.23%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	D 87.				NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%			42.30%	
2	8 12.34%	12.05%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	:D	63.20%	46.00%	58.17%	NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90%
3	2 48.90%	41.12%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	:D	63.20%			NOT POLARIZED		30.70%	89.459	% NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90%
4	6 36.10%	37.21%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	D	63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED	94.66%	43.80%	51.60%		49.60%	58.60%		42.30%	41.90%
4	7 29.82%	29.65%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	D	63.20%			NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%	81.349	49.60%	58.60%		42.30%	41.90%
5	6 11.12%	8.15%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	:D	63.20%	46.00%		NOT POLARIZED	47.06%	30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%		42.30%	41.90%
6	2 48.00%	47.99%		NOT POLARIZED	NOT POLARIZED	NOT POLARIZ	D	63.20%	46.00%		NOT POLARIZED		30.70%		NOT POLARIZED		43.80%	51.60%		49.60%	58.60%	89.79%	42.30%	41.90%

\*total VAP excluding

## Attachment B

Proposed House District	Share of Votes Received by Minority Preferred Candidates in Elections in the Proposed House District	Share of Votes Cast in Elections with Minority Preferred Candidates in the Proposed House District
1	74.00%	9.77%
3	63.84%	1.43%
4	76.55%	4.29%
5	79.44%	85.89%
6	74.95%	1.52%
7	83.47%	100.00%
8	84.43%	29.83%
16	54.53%	5.56%
17	59.25%	85.17%
23	53.29%	3.52%
28	56.07%	34.12%
30	60.99%	57.18%
36	66.32%	5.41%
37	64.00%	0.69%
40	62.70%	84.04%
41	71.64%	10.59%
42	73.31%	83.64%
46	59.21%	100.00%
47	46.21%	56.02%
60	36.53%	21.26%
61	68.07%	0.02%
62	61.75%	100.00%

## Attachment C

Proposed House District	Share of Votes Received by Minority Preferred Candidates in Elections in the Proposed House District	Share of Votes Cast in Elections with Minority Preferred Candidates in the Proposed House District
1	72.52%	10.04%
3	63.59%	1.81%
4	78.06%	4.72%
5	79.65%	85.86%
6	76.44%	1.89%
8	82.22%	3.67%
16	50.94%	6.37%
17	57.41%	85.38%
23	52.86%	3.93%
24	63.11%	3.85%
28	55.76%	33.12%
30	59.11%	58.49%
31	53.97%	24.22%
32	56.00%	95.13%
34	47.95%	9.77%
35	67.93%	31.44%
36	70.92%	47.08%
37	63.44%	1.04%
40	61.39%	78.81%
41	65.22%	3.89%
46	54.87%	100.00%
47	41.64%	57.48%
48	31.70%	0.88%
56	25.69%	2.74%
60	31.23%	21.64%
61	67.02%	0.03%
62	61.33%	100.00%

# Attachment D

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
1	43.51%	1.59%	51.89%
2	9.42%	2.94%	17.39%
3	13.19%	2.01%	21.02%
4	46.43%	1.95%	52.21%
5	44.39%	4.85%	54.56%
6	9.41%	9.88%	25.33%
7	36.43%	28.30%	70.85%
8 9	15.69% 13.41%	20.16% 8.92%	<b>40.28%</b> 29.26%
10	8.26%	1.24%	16.89%
11	15.53%	0.76%	20.57%
12	15.08%	0.88%	20.91%
13	4.37%	0.64%	8.45%
14	8.19%	3.81%	18.98%
15	12.22%	6.79%	26.08%
16	11.72%	4.45%	20.93%
17	28.06%	14.65%	49.66%
18	11.69%	4.26%	20.27%
19 20	5.77% 8.65%	1.71% 3.47%	11.20% 17.90%
21	14.86%	10.21%	31.93%
22	7.98%	0.77%	12.66%
23	15.58%	1.48%	21.34%
24	13.06%	1.06%	18.33%
25	4.50%	0.48%	7.32%
26	19.30%	0.56%	21.79%
27	8.64%	0.71%	12.37%
28	20.54%	1.59%	27.92%
29	13.80%	1.15%	20.50%
30 31	35.50% 30.01%	9.26% <mark>-</mark> 1.75%	50.90% 37.15%
32	50.88%	1.86%	56.77%
33	8.64%	1.01%	18.26%
34	29.00%	1.93%	36.99%
35	25.90%	1.49%	34.25%
36	18.74%	15.90%	43.96%
37	7.45%	5.31%	22.08%
38	5.86%	1.09%	10.16%
39	4.82%	0.73%	9.96%
40 41	13.30% 16.00%	11.51% 15.55%	33.69% 39.32%
42	36.82%	19.80%	63.47%
43	6.49%	1.28%	14.04%
44	7.04%	1.75%	14.79%
45	6.87%	1.18%	11.48%
46	35.78%	1.76%	39.75%
47	30.35%	1.77%	35.01%
48	17.85%	0.50%	20.65%
49	6.63%	0.42%	9.18%
50	38.22%	1.85%	43.10%
51 52	8.86% 10.59%	0.51% 0.93%	11.72% 15.88%
53	8.34%	1.48%	14.71%
54	11.90%	0.64%	14.90%
55	11.26%	0.74%	14.73%
56	19.98%	2.25%	26.77%
57	20.18%	0.53%	22.91%
58	12.37%	0.30%	18.00%
59	10.35%	0.45%	16.24%
60	9.66%	3.26%	15.69%
61	10.78%	0.57%	13.47%
62 63	<b>46.38%</b> 19.15%	0.78% 0.69%	49. <b>72%</b> 23.64%
64	19.87%	2.81%	24.99%
65	19.28%	2.73%	23.67%
		370	

## Attachment E

District No.	Hispanic VAP	Non-Hispanic Black VAP	Minority VAP
1	43.39%	2.77%	55.19%
2	7.37%	2.03%	16.71%
3	16.66%	7.00%	32.84%
4	35.36%	2.78%	44.45%
5	28.63%	4.85%	41.05%
6	12.52%	9.14%	29.62%
7	44.19%	23.04%	77.92%
8	16.67%	16.29%	40.25%
9	14.94%	11.72%	35.60%
10	10.17%	1.77%	23.30%
11	22.10%	1.31%	31.11%
12 13	10.03%	1.29%	21.05%
14	11.82% 9.11%	1.02% 3.50%	17.90% 22.67%
14 15	16.75%	7.96%	35.59%
16	16.48%	5.60%	29.50%
17	30.46%	13.20%	53.02%
18	11.29%	3.97%	23.18%
19	14.91%	1.01%	23.92%
20	8.49%	3.00%	19.14%
21	19.70%	11.24%	40.98%
22	12.99%	5.16%	26.80%
23	15.38%	1.77%	24.47%
24	13.51%	1.22%	21.36%
25	6.37%	0.72%	13.14%
26	17.49%	0.78%	22.57%
27	9.88%	1.15%	18.14%
28	12.34%	1.48%	22.19%
29	15.12%	1.86%	26.97%
30	26.14%	2.40%	36.75%
31	42.55%	2.39%	53.72%
32	48.90%	3.57%	58.89%
33	12.25%	1.65%	25.11%
34	25.76%	2.19%	37.94%
35	46.86%	1.87%	56.80%
36	37.21%	15.42%	63.54%
37	8.00%	3.60%	24.36%
38	9.87%	1.55%	17.86%
39	7.20%	1.74%	19.32%
40 41	17.18% 21.28%	12.41% 17.63%	42.63% 49.50%
41	39.39%	21.06%	69.99%
42	8.01%	1.54%	19.96%
44	8.87%	2.30%	22.13%
45	9.36%	1.74%	17.79%
46	36.10%	2.35%	43.66%
47	29.82%	2.11%	37.15%
48	35.18%	1.30%	41.81%
49	5.37%	0.66%	12.16%
50	44.10%	3.16%	52.75%
51	10.66%	1.00%	17.23%
52	9.97%	1.56%	19.65%
53	12.78%	2.09%	22.76%
54	12.90%	0.76%	19.25%
55	12.93%	0.99%	20.32%
56	11.12%	1.76%	19.21%
57	24.26%	0.71%	29.68%
58	12.18%	0.53%	17.93%
59	11.34%	0.53%	22.74%
60	10.30%	2.76%	19.20%
61	10.84%	7.97%	33.44%
62	48.00%	1.68%	54.39%
63 64	21.42%	2.17%	27.30% 25.33%
65	19.13% 10.88%	0.97% 0.85%	17.21%
UJ	10.00%	0.63%	17.2170

In re Colorado Independent Legislative Redistricting Commission

#### Exhibit 11

Reports Regarding Splits Analysis



Assigned District Splits City Plan: 2021 Final Approved Senate Plan

\* indicates split

FIPS	Total Population	Hispanic	Non-Hispanic
District 1			
Logan County			
*Unincorporated	6,291	510	5,781
Atwood	138	10	128
Crook	133	14	119
Fleming	429	29	400
lliff	246	34	212
Merino	282	21	261
Padroni	75	13	62
Peetz	213	15	198
Sterling	11,860	2,262	9,598
Logan County	19,667	2,908	16,759
Morgan County			
*Unincorporated	8,516	1,809	6,707
Blue Sky	65	18	47
Brush	5,361	2,109	3,252
Fort Morgan	11,636	5,609	6,027
Hillrose	313	54	259
Jackson Lake	131	6	125
Log Lane Village	921	530	391
Morgan Heights	299	43	256
Orchard	76	13	63
Saddle Ridge	66	3	63
Snyder	136	33	103
Trail Side	157	44	113
Weldona	113	16	97
Wiggins	1,403	323	1,080
Morgan County	29,193	10,610	18,583
Phillips County			
*Unincorporated	1,106	110	996
Amherst	47	8	39
Haxtun	982	68	914
Holyoke	2,352	967	1,385
Paoli	51	6	45
Phillips County	4,538	1,159	3,379
Sedgwick County			
*Unincorporated	654	56	598
Julesburg	1,311	215	1,096
Ovid	271	59	212
Sedgwick	172	33	139
Sedgwick County	2,408	363	2,045

Washington County			
*Unincorporated	2,497	195	2,302
Akron	1,762	270	1,492
Cope	53	7	46
Otis	512	46	466
Washington County	4,824	518	4,306
* Weld County			
*Unincorporated	22,885	4,225	18,660
Ault	1,893	510	1,383
Briggsdale	134	1	133
Eaton	5,809	967	4,842
* Greeley	37,801	9,299	28,502
Grover	157	19	138
Hudson	1,655	551	1,104
Keenesburg	1,253	165	1,088
Kersey	1,496	458	1,038
* Lochbuie	8,102	3,686	4,416
Nunn	506	67	439
Pierce	1,100	281	819
Raymer (New Raymer)	110	4	106
Severance	7,684	1,085	6,599
* Weld County	90,585	21,318	69,267
Yuma County			
*Unincorporated	3,622	461	3,161
Eckley	234	80	154
Idalia	97	26	71
Joes	82	11	71
Kirk	61	6	55
Laird	46	3	43
Vernon	38	4	34
Wray	2,363	652	1,711
Yuma	3,462	1,536	1,926
Yuma County	10,005	2,779	7,226
	161,220	39,655	121,565
DISTRICT FOTAL	101,220	24.60%	75.40%
District 2			
* Douglas County			
*Unincorporated	14,382	1,276	13,106
Castle Rock	73,198	8,543	64,655
Grand View Estates	691	64	627
Parker	58,542	6,346	52,196
Stonegate	9,072	805	8,267
The Pinery	11,315	825	10,490
* Douglas County	167,200	17,859	149,341
District 2 Total	167,200	17,859	149,341
	•	10.68%	89.32%

Pueblo County	47.040	4.050	10.100
*Unincorporated	17,812	4,650	13,162
Avondale	597	379	218
Beulah Valley	521 792	46	475 409
Blende	307	383	
Boone Colorado City		123 299	184
Colorado City	2,240		1,941
Pueblo Pueblo West	111,727	55,301	56,426
	33,134 207	8,436 33	24,698
Rye			174
Salt Creek	515	417 76	98 194
Vineland	270	76	194
Pueblo County	168,122	70,143	97,979
District 3 Total	168,122	70,143	97,979
		41.72%	58.28%
District 4			
Chaffee County			
*Unincorporated	8,164	549	7,615
Buena Vista	2,855	206	2,649
Garfield	27	1	26
Johnson Village	299	23	276
Maysville	173	7	166
Nathrop	288	18	270
Poncha Springs	926	95	831
Salida	5,685	584	5,101
Smeltertown	89	14	75
Chaffee County	18,506	1,497	17,009
Custer County			
*Unincorporated	3,661	124	3,537
Silver Cliff	609	24	585
Westcliffe	435	30	405
Custer County	4,705	178	4,527
* Douglas County			
*Unincorporated	16,748	1,010	15,738
Franktown	409	27	382
Larkspur	207	25	182
Louviers	295	26	269
Perry Park	1,933	106	1,827
Sedalia	177	21	156
Westcreek	120	8	112
* Douglas County	19,889	1,223	18,666
Fremont County			
*Unincorporated	11,127	1,331	9,796
Brookside	236	18	218
Cañon City	16,449	1,714	14,735
Coal Creek	364	20	344
Coaldale	343	19	324
Cotopaxi	44	1	43
Florence	3,833	531	3,302
Howard	852	57	795
Tiowaiu	002	31	195

3,635	311	3,946	Lincoln Park
2,635	325	2,960	Park Center
3,343	350	3,693	Penrose
457	55	512	Rockvale
665	72	737	Williamsburg
40,292	4,804	45,096	Fremont County
40,292	4,004	40,000	
07.405	4.000	22.22	* Jefferson County
27,495	1,332	28,827	*Unincorporated
748	63	811	Aspen Park
329	5	334	* Brook Forest
28,572	1,400	29,972	* Jefferson County
			Lake County
1,310	1,404	2,714	*Unincorporated
1,986	658	2,644	Leadville
1,306	590	1,896	Leadville North
187	17	204	Twin Lakes
4,789	2,669	7,458	Lake County
			Park County
15,083	1,147	16,230	*Unincorporated
270	27	297	Alma
		726	
671	55		Fairplay
106 35	5 3	111 38	Guffey Hartsel
			Haltoci
16,165	1,237	17,402	Park County
			* Teller County
13,784	955	14,739	*Unincorporated
1,079	87	1,166	Cripple Creek
137	6	143	Divide
120	8	128	Florissant
56	7	63	Goldfield
166	16	182	Midland
372	9	381	Victor
7,300	627	7,927	Woodland Park
23,014	1,715	24,729	* Teller County
153,034	14,723	167,757	District 4 Total
91.22%	8.78%	101,101	Bistrict 4 Total
			District 5
			* Delta County
9,402	1,066	10,468	*Unincorporated
375	28	403	Crawford
6,874	2,188	9,062	Delta
765	111	876	Hotchkiss
140	28	168	Lazear
2,833	310	3,143	Orchard City
1,346	102	1,448	Paonia
21,735	3,833	25,568	* Delta County

* Eagle County			
*Unincorporated	1,502	529	973
Basalt	2,918	486	2,432
El Jebel	4,133	1,736	2,397
* Eagle County	8,553	2,751	5,802
* Garfield County			
*Unincorporated	11,904	2,722	9,182
Battlement Mesa	5,445	1,405	4,040
Carbondale	6,438	1,968	4,470
Catherine	235	20	215
Cattle Creek	662	401	261
Glenwood Springs	9,974	3,539	6,435
Mulford	259	24	235
New Castle	4,931	1,459	3,472
No Name	118	18	100
Parachute	1,397	330	1,067
Rifle	10,452	4,251	6,201
Silt	3,538	1,375	2,163
* Garfield County	55,353	17,512	37,841
Gunnison County			
*Unincorporated	7,524	475	7,049
Crested Butte	1,639	79	1,560
Gunnison	6,565	988	5,577
Marble	133	15	118
Mount Crested Butte	941	49	892
Pitkin	72	0	72
Somerset	55	1	54
Gunnison County	16,929	1,607	15,322
Hinsdale County			
*Unincorporated	310	10	300
Cathedral	15	0	15
Lake City	433	17	416
Piedra	31	3	28
Hinsdale County	789	30	759
* Montrose County			
*Unincorporated	16,212	3,155	13,057
Montrose	20,334	4,506	15,828
Olathe	2,023	1,145	878
* Montrose County	38,569	8,806	29,763
·	55,555	0,000	25,105
Pitkin County			
*Unincorporated	5,769	651	5,118
Aspen	7,007	767	6,240
Basalt	1,067	177	890
Norrie	7	0	7
Redstone	127	9	118
Snowmass Village	3,096	261	2,835
Woody Creek	292	28	264

District 5 Total	163,126	36,432 22.33%	126,694 77.67%
District 6			
Alamosa County			
*Unincorporated	5,050	1,706	3,344
Alamosa	9,877	5,260	4,617
Alamosa East	1,463	769	694
Hooper	81	22	59
Alamosa County	16,471	7,757	8,714
Archuleta County			
*Unincorporated	11,492	1,560	9,932
Arboles	311	77	234
Pagosa Springs	1,577	526	1,051
Archuleta County	13,380	2,163	11,217
	10,000	2,100	11,217
Conejos County			
*Unincorporated	3,786	1,654	2,132
Antonito	649	564	85
Capulin	136	116	20
Conejos	46	32	14
La Jara	737	457	280
Manassa	951	459	492
Romeo	305	220	85
Sanford	880	297	583
Conejos County	7,490	3,799	3,691
Costilla County			
*Unincorporated	2,066	902	1,164
Blanca	323	228	95
Fort Garland	465	331	134
San Acacio	56 500	36	20
San Luis	598	495	103
Costilla County	3,508	1,992	1,516
Dolores County			
*Unincorporated	1,404	94	1,310
Dove Creek	637	50	587
Rico	288	33	255
Dolores County	2,329	177	2,152
La Plata County			
*Unincorporated	32,694	3,818	28,876
Bayfield	2,841	464	2,377
Durango	19,112	2,316	16,796
Ignacio	856	378	478
Marvel	68	23	45
Southern Ute	158	27	131
La Plata County	55,729	7,026	48,703
Mineral County			
*Unincorporated	608	28	580
City of Creede	257	19	238
•			

365 47	865	Mineral County
	000	
		Montezuma County
	13,644	*Unincorporated
	8,797	Cortez
	888	Dolores
	257	Lewis
	1,199	Mancos
126 31	1,126	Towaoc
911 3,120	25,911	Montezuma County
		* Montrose County
	2,936	*Unincorporated
	487	Naturita
585 40	585	Nucla
173 4	173	Redvale
181 247	4,181	* Montrose County
		Ouray County
004 107	2,004	*Unincorporated
36 4		Colona
	617	Loghill Village
	899	Ouray
	136	Portland
	1,185	Ridgway
70	1,103	
377 292	4,877	Ouray County
		Rio Grande County
1,169	4,857	*Unincorporated
169 20	169	Alpine
44 40	44	Center
465 711	1,465	Del Norte
264 22	264	Gerrard
2,585	4,273	Monte Vista
511 90	511	South Fork
583 4,637	11,583	Rio Grande County
		Saguache County
504	3,681	*Unincorporated
17 5		Bonanza
	1,891	Center
	141	Crestone
	109	Moffat
	540	Saguache
379 2,401	6,379	Saguache County
		San Juan County
83 9	83	*Unincorporated
	622	Silverton
705 90	705	San Juan County
		San Miguel County
070 181	3,070	*Unincorporated
	1,264	Mountain Village
	538	Norwood
JJU 100	556	NOIWOOU

Ophir	197	13	184
Placerville	362	17	345
Sawpit	38	0	38
Telluride	2,608	341	2,267
San Miguel County	8,077	883	7,194
District 6 Total	161,485	34,631	126,854
		21.45%	78.55%
District 7			
* Delta County			
*Unincorporated	2,993	170	2,823
Cedaredge	2,282	181	2,101
* Delta County	5,275	351	4,924
Mesa County			
*Unincorporated	27,680	3,288	24,392
Clifton	20,533	4,958	15,575
Collbran	369	27	342
De Beque	494	47	447
Fruita	13,427	1,590	11,837
Fruitvale	8,291	1,187	7,104
Grand Junction	65,882	10,383	55,499
Loma	1,315	66	1,249
Orchard Mesa		911	
Palisade	6,717		5,806
	2,570	304	2,266
Redlands	9,080	643	8,437
Mesa County	156,358	23,404	132,954
District 7 Total	161,633	23,755	137,878
District 7 Total	101,000	14.70%	85.30%
District 8			
Clear Creek County			
*Unincorporated	1,537	89	1,448
Blue Valley	175	6	169
* Brook Forest	288	12	276
Central City	0	0	0
Downieville-Lawson-Dumont	529	61	468
Echo Hills	313	13	300
Empire	347	34	313
Floyd Hill	1,048	65	983
Georgetown	1,123	121	1,002
Idaho Springs	1,788	125	1,663
Pine Valley	364	8	356
Silver Plume	207	15	192
St. Mary's	333	23	310
Upper Bear Creek	985	50	935
Upper Witter Gulch	381	26	355
Clear Creek County	9,418	648	8,770
45 10 1			
* Eagle County *Unincorporated	6,972	966	6,006
r	-,-		-,

Avon	6,073	2,366	3,707
Dotsero	1,177	835	342
Eagle	7,518	1,441	6,077
Edwards	11,252	3,775	
			7,477
Fulford	0	0	0
Gypsum	8,043	3,951	4,092
McCoy	30	4	26
Minturn	1,034	224	810
Red Cliff	258	66	192
Vail	4,838	501	4,337
Wolcott	20	2	18
Wolcon	20	۷	10
* Eagle County	47,215	14,131	33,084
* Garfield County			
*Unincorporated	5,909	1,968	3,941
Carbonate	0	0	0
Chacra	332	56	276
Cilacia	332	50	270
* Garfield County	6,241	2,024	4,217
07.1.0			
Gilpin County			
*Unincorporated	4,418	257	4,161
Black Hawk	128	21	107
Central City	779	74	705
* Coal Creek	292	14	278
Rollinsville	194	15	179
Ollain County	5.044	204	5 400
Gilpin County	5,811	381	5,430
Grand County			
*Unincorporated	8,158	588	7,570
Fraser	1,400	135	1,265
		374	1,705
Granby	2,079		
Grand Lake	410	33	377
Hot Sulphur Springs	688	54	634
Kremmling	1,514	281	1,233
Parshall	42	8	34
Tabernash	401	15	386
Winter Park	1,034	47	987
Grand County	15,726	1,535	14,191
Jackson County			
*Unincorporated	773	33	740
Walden	608	105	503
leakeen County	4 204	420	1 242
Jackson County	1,381	138	1,243
Moffat County			
*Unincorporated	3,922	370	3,552
Craig	9,107	1,730	7,377
Dinosaur	243	27	216
Maybell	76	2	74
Maffat Caush	40.040	0.400	44.040
Moffat County	13,348	2,129	11,219
Rio Blanco County			
*Unincorporated	1,857	100	1,757
Meeker	2,375	259	2,116
Rangely	2,304	264	2,040
, tally of	_,55 :		_,0.0

	Rio Blanco County	6,536	623	5,913
	Routt County			
	*Unincorporated	8,146	411	7,735
	Hayden	1,942	211	1,731
	Oak Creek	891	79	812
	Phippsburg	234	18	216
	Steamboat Springs	13,231	1,466	11,765
	Yampa	399	17	382
	•			
	Routt County	24,843	2,202	22,641
	Summit County			
	*Unincorporated	14,567	2,849	11,718
	Blue River	878	36	842
	Breckenridge	5,080	556	4,524
	Copper Mountain	651	72	579
	Dillon	1,067	184	883
	Frisco	2,915	190	2,725
	Heeney	74	5	-,
	Keystone	1,369	179	1,190
	Montezuma	74	4	7(
	Silverthorne	4,412		3,145
	Silverthorne	4,412	1,267	3,140
	Summit County	31,087	5,342	25,745
	District 8 Total	161,606	29,153	132,453
			18.04%	81.96%
District 9				
	* El Paso County			
	*Unincorporated	12,248	911	11,33
	Air Force Academy	6,608	935	5,673
	* Colorado Springs	116,674	12,795	103,879
	Gleneagle	6,653	539	6,114
	Monument	10,407	941	9,466
	Palmer Lake	2,639	241	2,398
	Woodmoor	9,541	604	8,937
	* El Paca County		16.066	147,804
	* El Paso County	164,770	16,966	147,804
	District 9 Total	164,770	16,966	147,804
			10.30%	89.70%
District 10				
	* El Paso County			
	*Unincorporated	1,511	203	1,308
	* Cimarron Hills	5,771	1,077	4,694
	* Colorado Springs	161,442	26,400	135,042
	* El Paso County	168,724	27,680	141,044
	District 10 Total	168,724	27,680 16.41%	141,044 83.59%

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District 11			
* El Paso County			
*Unincorporated	14,457	3,110	11,347
* Cimarron Hills	13,619	3,455	10,164
* Colorado Springs	132,480	40,548	91,932
Stratmoor	6,588	2,105	4,483
Glatinoon	0,000	2,100	4,400
* El Paso County	167,144	49,218	117,926
District 11 Total	167,144	49,218 29.45%	117,926 70.55%
		20.4070	70.0070
District 12  * El Paso County			
	E 220	054	4.070
*Unincorporated	5,330	951	4,379
Cascade-Chipita Park	1,630	94	1,536
* Colorado Springs	70,194	8,567	61,627
Fort Carson	17,701	3,844	13,857
Fountain	29,880	7,076	22,804
Green Mountain Falls	622	31	591
Manitou Springs	4,876	339	4,537
Rock Creek Park	68	6	62
Security-Widefield	38,778	8,168	30,610
* El Paso County	169,079	29,076	140,003
* Teller County			
Green Mountain Falls	24	1	23
* Teller County	24	1	23
District 12 Total	169,103	29,077	140,026
District 12 Total	103,103	17.19%	82.81%
District 13			
* Adams County			
*Unincorporated	2,113	590	1,523
Brighton	39,844	17,018	22,826
* Lochbuie	1	1	C
* Todd Creek	2,225	301	1,924
* Adams County	44,183	17,910	26,273
* Weld County			
*Unincorporated	7,634	3,262	4,372
Aristocrat Ranchettes	1,718	1,014	704
Brighton	365	96	269
Evans	22,237	10,349	11,888
Fort Lupton	7,991	4,417	3,574
Garden City	260	184	76
Galderi City Gilcrest	1,034	542	492
* Greeley	71,439	34,733	36,706
La Salle	2,368	868	1,500
Platteville	2,962	1,283	1,679
* Weld County	118,008	56,748	61,260

162,191 11,573 149,410	74,658 46.03% 2,475	87,533 53.97%
149,410		9,098
	18,311	131,099
160,983	20,786	140,197
160,983	20,786 12.91%	140,197 87.09%
11,470	595	10,875
569	18	551
513	19	494
202	5	197
127	8	119
667	40	627
179	9	170
140	6	134
559	47	512
64	3	61
220	7	213
24	2	22
256	5	251
958	32	926
2,211	117	2,094
238	13	225
1,475	59	1,416
975	44	931
129	2	127
325	10	315
274	9	265
198	2	196
185	6	179
128	0	128
22,086	1,058	21,028
42,462	4,112	38,350
	906	5,003
2,416	246	2,170
76,526	9,949	66,577
427	17	410
11,051	1,671	9,380
138,791	16,901	121,890
160,877	17,959	142,918 88.84%
	11,470 569 513 202 127 667 179 140 559 64 220 24 256 958 2,211 238 1,475 975 129 325 274 198 185 128 22,086 42,462 5,909 2,416 76,526 427 11,051 138,791	11,470       595         569       18         513       19         202       5         127       8         667       40         179       9         140       6         559       47         64       3         220       7         24       2         256       5         958       32         2,211       117         238       13         1,475       59         975       44         129       2         325       10         274       9         198       2         185       6         128       0         22,086       1,058         42,462       4,112         5,909       906         2,416       246         76,526       9,949         427       17         11,051       1,671         138,791       16,901

District 16			
* Arapahoe County			
*Unincorporated	43	8	35
Bow Mar	587	24	563
* Centennial	57,709	4,855	52,854
Columbine	1,983	174	1,809
Columbine Valley	1,503	63	1,440
* Littleton	42,792	5,960	36,832
* Arapahoe County	104,617	11,084	93,533
* Jefferson County			
*Unincorporated	1,988	198	1,790
Bow Mar	267	25	242
Columbine	23,268	2,584	20,684
Ken Caryl	33,842	4,012	29,830
* Littleton	2,310	160	2,150
* Jefferson County	61,675	6,979	54,696
District 16 Total	166,292	18,063	148,229
		10.86%	89.14%
District 17			
* Boulder County			
*Unincorporated	3,802	284	3,518
* Erie	12,656	1,174	11,482
Lafayette	30,452	5,630	24,822
Leyner	40	4	36
Longmont	97,787	24,226	73,561
* Boulder County	144,737	31,318	113,419
* Broomfield County			
* Broomfield	0	0	0
* Broomfield County	0	0	0
* Weld County			
*Unincorporated	1,487	174	1,313
Erie	17,396	1,896	15,500
Longmont	1,298	314	984
* Weld County	20,181	2,384	17,797
District 17 Total	164,918	33,702	131,216
		20.44%	79.56%
District 18			
* Boulder County			
*Unincorporated	6,741	784	5,957
Boulder	108,317	11,452	96,865
Gunbarrel	9,561	584	8,977
Louisville	21,234	1,740	19,494
Niwot	4,306	219	4,087
Paragon Estates	975	60	915

148,389
90.32%
1,988
1,988
3,727
94,663
38,126
136,516
138,504
84.18%
26,856
9,257
1,461
29,480
8,883
8,692
3,455
233
1,401
1,246
56,384
370 0
0
147,718
147,718 87.88%
7,714
1,948
5,273
31,995
2,377
336
7,391

Strasburg Twin Lakes * Welby	2,040 8,258 15,594	341 4,028 9,259	1,699 4,230 6,335
* Westminster	20,863	9,406	11,457
* Adams County	162,954	82,199	80,755
* Arapahoe County			
*Unincorporated	1,397	201	1,196
Bennett	419	56	363
Byers	1,326	123	1,203
Comanche Creek	442	65	377
Deer Trail	1,069	271	798
Peoria	153	37	116
Strasburg	1,272	220	1,052
* Arapahoe County	6,078	973	5,105
District 21 Total	169,032	83,172	85,860
		49.20%	50.80%
District 22			
* Jefferson County			
*Unincorporated	2,013	417	1,596
Applewood	7,847	648	7,199
East Pleasant View	333	26	307
Edgewater	5,035	1,779	3,256
* Fairmount	0	0	0
Golden	20,435	1,979	18,456
Lakeside	16	3	13
* Lakewood	89,657	25,139	64,518
Mountain View	545	137	408
* West Pleasant View	4,230	612	3,618
Wheat Ridge	32,508	7,271	25,237
* Jefferson County	162,619	38,011	124,608
District 22 Total	162,619	38,011	124,608
		23.37%	76.63%
District 23			
* Larimer County			
*Unincorporated	10,123	1,524	8,599
Berthoud	10,082	1,085	8,997
* Fort Collins	20,701	2,762	17,939
Johnstown	4,756	741	4,015
Timnath	6,484	538	5,946
Windsor	7,721	453	7,268
* Larimer County	59,867	7,103	52,764
* Weld County			
*Unincorporated	12,745	2,408	10,337
Berthoud	261	38	223
Dacono	6,313	2,191	4,122
* Erie	0	0	0
Firestone	16,392	3,490	12,902

Frederick	14,521	2,381	12,140
Johnstown	12,556	2,157	10,399
Mead	4,783	626	4,157
Milliken	8,392	2,311	6,081
* Northglenn	25	8	17
* Thornton	0	0	0
Timnath	5	2	3
Windsor	25,014	2,822	22,192
		_,	,
* Weld County	101,007	18,434	82,573
District 23 Total	160,874	25,537	135,337
		15.87%	84.13%
District 24			
* Adams County			
*Unincorporated	7,941	3,081	4,860
Federal Heights	14,438	8,901	5,537
* Northglenn	417	123	294
* Thornton	142,160	51,528	90,632
* Todd Creek	2,806	476	2,330
* Welby	0	0	0
* Adams County	167,762	64,109	103,653
* Broomfield County			
* Broomfield	0	0	0
* Broomfield County	0	0	0
District 24 Total	167,762	64,109	103,653
	,	38.21%	61.79%
District 25			
* Adams County			
	004	110	770
*Unincorporated	921	148	773
* Northglenn	37,805	13,933	23,872
Shaw Heights	5,206	2,057	3,149
* Westminster	50,547	10,898	39,649
* Adams County	94,479	27,036	67,443
* December 14 County			
* Broomfield County * Broomfield	74,173	9,935	64,238
Brooming	74,170	0,000	04,200
* Broomfield County	74,173	9,935	64,238
* Weld County	0	0	0
Diada of Table	400.050	00.074	404.004
District 25 Total	168,652	36,971 21.92%	131,681 78.08%
District 26			
District 26			
* Arapahoe County			
*Unincorporated	1,389	391	998
Cherry Creek	11,495	1,065	10,430

Cherry Hills Village	6,445	267	6,178
Englewood	33,761	6,445	27,316
* Four Square Mile	22,765	4,449	18,316
Greenwood Village	15,702	1,000	14,702
Sheridan	6,122	2,603	3,519
Shehdan	0,122	2,003	3,319
* Arapahoe County	97,679	16,220	81,459
* Denver County			
* Denver	66,438	12,446	53 003
Deliver	00,430	12,440	53,992
* Denver County	66,438	12,446	53,992
* Jefferson County	0	0	0
District 26 Total	164,117	28,666	135,451
		17.47%	82.53%
District 27			
* Arapahoe County			
*Unincorporated	34,464	4,789	29,675
* Aurora	69,015	9,906	59,075 59,109
Brick Center	105	9,900	59,109 86
		5,578	
* Centennial	50,798	,	45,220
Dove Valley	5,644	1,031	4,613
Foxfield	754	54	700
Inverness	2,234	260	1,974
* Arapahoe County	163,014	21,637	141,377
* Douglas County			
*Unincorporated	47	0	47
* Aurora	2,507	204	2,303
Autora	2,307	204	2,303
* Douglas County	2,554	204	2,350
District 27 Total	165,568	21,841 13.19%	143,727 86.81%
District 28			
* Adams County			
*Unincorporated	808	220	588
* Aurora	48,001	24,916	
Watkins	88	24,910	23,085 59
Wathiis	88	29	39
* Adams County	48,897	25,165	23,732
* Arapahoe County			
*Unincorporated	7,551	1,349	6,202
Aetna Estates	1,502	1,150	352
* Aurora	105,444	39,437	66,007
Watkins	594	86	508
* Arapahoe County	115,091	42,022	73,069
District 28 Total	163,988	67,187	96,801

			40.97%	59.03%
District 29				
	* Arapahoe County * Aurora	162,492	42,725	119,767
	* Arapahoe County	162,492	42,725	119,767
	District 29 Total	162,492	42,725	119,767
	District 25 Total	102,432	26.29%	73.71%
District 30				
	* Douglas County			
	*Unincorporated	6,362	747	5,615
	Acres Green	2,925	414	2,511
	Castle Pines	11,039	754	10,285
	Castle Pines Village	4,328	194	4,134
	Highlands Ranch	103,498	9,052	94,446
	* Littleton	640	103	537
	Lone Tree	14,261	1,204	13,057
	Meridian	4,792	535	4,257
	Meridian Village	3,202	227	2,975
		9,420	915	2,975 8,505
	Roxborough Park			
	Sierra Ridge	3,490	342	3,148
	Stepping Stone	2,780	176	2,604
	Sterling Ranch	1,789	185	1,604
	* Douglas County	168,526	14,848	153,678
	District 30 Total	168,526	14,848	153,678
			8.81%	91.19%
District 31	* D			
	* Denver County			
	* Denver	164,485	18,964	145,521
	* Denver County	164,485	18,964	145,521
	District 31 Total	164,485	18,964	145,521
	2.0	,	11.53%	88.47%
District 32				
	* Arapahoe County			
	* Four Square Mile	158	21	137
	Glendale	4,627	1,128	3,499
	Holly Hills	2,686	221	2,465
	* Arapahoe County	7,471	1,370	6,101
	* Denver County			
	* Denver	154,269	47,221	107,048
	* Denver County	154,269	47,221	107,048
	* Jefferson County	0	0	0
	* Four Square Mile Glendale Holly Hills  * Arapahoe County  * Denver County  * Denver  * Denver County	4,627 2,686 7,471 154,269	1,128 221 1,370 47,221 47,221	

District 32 Total	161,740	48,591 30.04%	113,149 69.96%
* Denver County * Denver	163,990	56,162	107,828
* Denver County	163,990	56,162	107,828
District 33 Total	163,990	56,162 34.25%	107,828 65.75%
* Denver County			
* Denver	167,908	65,324	102,584
* Denver County	167,908	65,324	102,584
District 34 Total	167,908	65,324 38.90%	102,584 61.10%
Page County			
	1 203	61	1,232
			95
			102
			1,172
			32
Vilas	98	19	79
Walsh	543	88	455
Baca County	3,513	346	3,167
Bent County			
	1.891	336	1,555
	182	45	137
Las Animas	2,317	934	1,383
McClave	130	38	92
Bent County	4,520	1,353	3,167
Cheyenne County			
	634	50	584
Arapahoe	102	9	93
Cheyenne Wells	763	97	666
Kit Carson	255	50	205
Cheyenne County	1,754	206	1,548
Crowley County			
*Unincorporated		367	1,427
	166		109
			245
			740
Sugar City	201	51	210
	* Denver County  * Denver County  District 33 Total  * Denver County  * Denver  * Denver County  District 34 Total  Baca County  *Unincorporated Campo Pritchett Springfield Two Buttes Vilas Walsh  Baca County  Bent County  *Unincorporated Hasty Las Animas McClave  Bent County  Cheyenne County  *Unincorporated Arapahoe Cheyenne Wells Kit Carson  Cheyenne County  Crowley County	* Denver County	*Denver County     *Denver Denver

Crowley County	3,603	872	2,731
Elbert County			
	19,477	1,511	17,966
*Unincorporated			
Elbert	188	19 184	169
Elizabeth	1,677		1,493
Kiowa	727	54	673
Matheson	79	3	76
Ponderosa Park	3,336	247	3,089
Simla	603	49	554
Elbert County	26,087	2,067	24,020
* El Paso County			
*Unincorporated	45,608	5,902	39,706
Black Forest	15,107	1,094	14,013
Calhan	763	46	717
Ellicott	1,253	486	767
Peyton	214	21	193
Ramah	111	4	107
* El Paso County	63,056	7,553	55,503
	00,000	7,000	00,000
Huerfano County	2 907	479	2 220
*Unincorporated	2,807		2,328
Gardner	106	44	62
La Veta	862	86	776
Walsenburg	3,065	1,529	1,536
Huerfano County	6,840	2,138	4,702
Kiowa County			
*Unincorporated	610	42	568
Brandon	21	1	20
Eads	673	55	618
Haswell	71	3	68
Sheridan Lake	55	3	52
Towner	18	0	18
Kiowa County	1,448	104	1,344
Kit Carson County			
*Unincorporated	2,243	252	1,991
Bethune	183	56	1,331
Burlington	3,180	954	2,226
	568	30	538
Flagler			
Seibert	172	16	156
Stratton	658	100	558
Vona	95	7	88
Kit Carson County	7,099	1,415	5,684
Las Animas County			
*Unincorporated	4,394	1,073	3,321
Aguilar	457	215	242
Branson	57	8	49
Cokedale	127	25	102
El Moro	216	57	159
Hoehne	80	36	44
Jansen	101	46	55
			00

Kim	63	18	45
Lynn	11	6	5
Segundo	100	32	68
Starkville	62	28	34
Stonewall Gap	66	4	62
Trinidad	8,368	3,892	4,476
Valdez	46	34	12
Weston	53	33	20
Western	95	00	20
Las Animas County	14,201	5,507	8,694
Lincoln County			
*Unincorporated	1,773	158	1,615
Arriba	202	2	200
Genoa	153	6	147
Hugo	791	34	757
Limon	2,054	325	1,729
Lincoln County	4,973	525	4,448
Otero County			
*Unincorporated	4,461	1,097	3,364
Cheraw	238	60	178
Fowler	1,257	234	1,023
La Junta	7,357	3,632	3,725
La Junta Gardens	124	42	82
Manzanola	343	150	193
North La Junta	484	156	328
Rocky Ford	3,893	2,217	1,676
Swink	609	153	456
Otero County	18,766	7,741	11,025
Prowers County			
*Unincorporated	2,540	545	1,995
Granada	446	315	131
Hartman	57	21	36
Holly	837	422	415
Lamar	7,729	3,287	4,442
Wiley	438	113	325
Discussion County	40.047	4.700	7.044
Prowers County	12,047	4,703	7,344
District 35 Total	167,907	34,530	133,377
	•	20.56%	79.44%

Source: Colorado Independent Redistricting Commissions Staff.

October 14, 2021



Assigned District Splits County Plan: 2021 Final Approved Senate Plan

* indicates split

						Non-Hispanic American		Non-Hispanic Hawaiian or Non-H		
County	Total Population	Hispanic	Non-Hispanic	Non-Hispanic white	Non-Hispanic black	Indian/ Alaskan Native	Non-Hispanic Asian	Other Pacific Islander	race	minority race
District 1										
Logan County	19,667	2,908	16,759	15,560	356	97	99	17	52	578
Morgan County	29,193	10,610	18,583	16,579	937	113	153	11	77	713
Phillips County	4,538	1,159	3,379	3,250	10	12	22	1	5	79
Sedgwick County	2,408	363	2,045	1,936	4	11	12	0	8	74
Washington County  * Weld County	4,824 90,585	518 21,318	4,306	4,062 63,505	24 631	8 365	15 994	10	20 350	167 3,339
Yuma County	90,585 10,005	21,318	69,267 7,226	6,957	21	365 16	994 26	83 2	350 27	3,339 177
Tullia County	10,005	2,119	7,220	0,957	21	10	20		21	177
District 1 Total	161,220	39,655 24.60%	121,565 75.40%	111,849 69.38%	1,983 1.23%	622 0.39%	1,321 0.82%	124 0.08%	539 0.33%	5,127 3.18%
		24.00%	75.40%	09.36%	1.23%	0.39%	0.82%	0.08%	0.33%	3.10%
District 2  * Douglas County	167.200	17,859	149,341	130.711	2.479	459	6,171	175	734	8.612
		,	,							-,
District 2 Total	167,200	17,859	149,341	130,711	2,479	459	6,171	175	734	8,612
		10.68%	89.32%	78.18%	1.48%	0.27%	3.69%	0.10%	0.44%	5.15%
District 3										
Pueblo County	168,122	70,143	97,979	85,326	2,921	1,265	1,556	138	944	5,829
District 3 Total	168.122	70.143	97,979	85.326	2,921	1,265	1,556	138	944	5,829
		41.72%	58.28%	50.75%	1.74%	0.75%	0.93%	0.08%	0.56%	3.47%
District 4										
Chaffee County	18,506	1,497	17,009	15,805	111	87	126	11	100	769
Custer County	4,705	178	4,527	4,213	10	42	22	0	45	195
* Douglas County	19,889	1,223	18,666	17,317	104	57	256	8	119	805
Fremont County	45,096	4,804	40,292	35,958	1,143	559	287	30	234	2,081
* Jefferson County	29,972	1,400	28,572	26,561	90	77	318	19	144	1,363
Lake County	7,458	2,669	4,789	4,308	31	46	63	8	45	288
Park County	17,402	1,237	16,165	14,912	89	118	99	9	94	844
* Teller County	24,729	1,715	23,014	21,037	133	124	201	12	148	1,359
District 4 Total	167,757	14,723	153,034	140,111	1,711	1,110	1,372	97	929	7,704
		8.78%	91.22%	83.52%	1.02%	0.66%	0.82%	0.06%	0.55%	4.59%
District 5										
* Delta County	25,568	3,833	21,735	20,119	70	92	209	6	164	1,075
* Eagle County	8,553	2,751	5,802	5,384	24	21	104	11	36	222
* Garfield County Gunnison County	55,353 16,929	17,512 1,607	37,841 15,322	34,634 14,261	237 78	270 70	382 121	31 7	282 111	2,005 674
Hinsdale County	789	30	759	14,261	/o 8	6	2	1	6	42
* Montrose County	38,569	8,806	29,763	27,532	148	251	318	26	172	1,316
Pitkin County	17,365	1,893	15,472	14,439	94	36	280	7	82	534
District 5 Total	163,126	36,432 22.33%	126,694 77.67%	117,063 71.76%	659 0.40%	746 0.46%	1,416 0.87%	89 0.05%	853 0.52%	5,868 3.60%
District 6										
Alamosa County	16,471	7,757	8,714	7,518	216	220	143	19	104	494
Archuleta County	13,380	2,163	11,217	10,189	42	172	101	6	77	630
Conejos County	7,490	3,799	3,691	3,474	14	44	21	2	24	112
Costilla County	3,508	1,992	1,516	1,238	34	34	55	0	13	142
Dolores County	2,329	177	2,152	1,952	18	36	6	4	5	131
La Plata County	55,729	7,026	48,703	42,452	185	2,819	381	33	377	2,456

Mineral County Montezuma County * Montrose County Ouray County Rio Grande County Saguache County San Juan County San Miguel County	865 25,911 4,181 4,877 11,583 6,379 705 8,077	47 3,120 247 292 4,637 2,401 90 883	818 22,791 3,934 4,585 6,946 3,978 615 7,194	775 18,064 3,636 4,311 6,275 3,582 575 6,761	0 73 11 16 51 19 1 20	4 3,187 14 16 139 81 6 47	3 128 16 28 36 63 2 55	0 24 0 2 4 2 0	0 107 11 24 56 42 1	36 1,208 246 188 385 189 30 267
District 6 Total	161,485 100.23%	34,631 21.50%	126,854 78.74%	110,802 68.77%	700 0.43%	6,819 4.23%	1,038 0.64%	96 0.06%	885 0.55%	6,514 4.04%
District 7										
* Delta County Mesa County	5,275 156,358	351 23,404	4,924 132,954	4,639 121,234	10 1,039	21 956	17 1,615	3 188	28 889	206 7,033
District 7 Total	161,633	23,755 14.70%	137,878 85.30%	125,873 77.88%	1,049 0.65%	977 0.60%	1,632 1.01%	191 0.12%	917 0.57%	7,239 4.48%
District 8										
Clear Creek County	9,418	648	8,770	8,169	49	42	82	7	38	383
* Eagle County	47,215	14,131	33,084	30,830	273	97	608	16	151	1,109
* Garfield County	6,241	2,024 381	4,217 5,430	3,966 4,954	17 32	28	13 85	3 4	27 37	163 282
Gilpin County Grand County	5,811 15,726	1,535	14,191	13,442	52 59	36 56	83	4 17	73	202 461
Jackson County	1,381	138	1,243	1,163	0	12	2	2	73 5	461 59 566 265
Moffat County	13,348	2,129	11,219	10,362	79	98	52 22	2	60	566
Rio Blanco County	6,536	623	5,913	5,515	29	51		2	29	265
Routt County	24,843	2,202	22,641	21,253	154	67	169	35	92	871
Summit County	31,087	5,342	25,745	23,802	236	68	407	20	150	1,062
District 8 Total	161,606 100.01%	29,153 18.04%	132,453 81.97%	123,456 76.40%	928 0.57%	555 0.34%	1,523 0.94%	108 0.07%	662 0.41%	5,221 3.23%
District 9										
* El Paso County	164,770	16,966	147,804	125,107	4,487	587	6,843	247	1,056	9,477
District 9 Total	164,770	16,966 10.30%	147,804 89.70%	125,107 75.93%	4,487 2.72%	587 0.36%	6,843 4.15%	247 0.15%	1,056 0.64%	9,477 5.75%
District 10 * El Paso County	168,724	27,680	141,044	114,298	8,172	856	5,280	438	978	11,022
District 10 Total	168,724	27,680 16.41%	141,044 83.59%	114,298 67.74%	8,172 4.84%	856 0.51%	5,280 3.13%	438 0.26%	978 0.58%	11,022 6.53%
District 11 * El Paso County	167,144	49,218	117,926	82,468	16,810	1,232	4,553	938	1,064	10,861
District 11 Total	167,144	49,218 29.45%	117,926 70.55%	82,468 49.34%	16,810 10.06%	1,232 0.74%	4,553 2.72%	938 0.56%	1,064 0.64%	10,861 6.50%
District 12										
* El Paso County * Teller County	169,079 24	29,076 1	140,003 23	111,515 20	10,406 0	905 0	4,055 0	1,023 0	1,064 0	11,035 3
District 12 Total	169,103	29,077 17.19%	140,026 82.81%	111,535 65.96%	10,406 6.15%	905 0.54%	4,055 2.40%	1,023 0.60%	1,064 0.63%	11,038 6.53%
District 13  * Adams County  * Weld County	44,183 118,008	17,910 56,748	26,273 61,260	22,747 51,575	573 2,865	220 605	840 2,072	77 132	231 464	1,585 3,547
District 13 Total	162,191	74,658 46.03%	87,533 53.97%	74,322 45.82%	3,438 2.12%	825 0.51%	2,912 1.80%	209 0.13%	695 0.43%	5,132 3.16%
District 14 * Larimer County	160,983	20,786	140,197	123,932	2,141	709	4,842	145	804	7,624

District 14 Total	160,983	20,786 12.91%	140,197 87.09%	123,932 76.98%	2,141 1.33%	709 0.44%	4,842 3.01%	145 0.09%	804 0.50%	7,624 4.74%
District 15										
* Boulder County	22,086 138,791	1,058	21,028 121,890	19,478 112,047	64 900	58 597	286	5	152 711	985 6,122
* Larimer County	138,791	16,901	121,890	112,047	900	597	1,413	100	711	6,122
District 15 Total	160,877	17,959 11.16%	142,918 88.84%	131,525 81.76%	964 0.60%	655 0.41%	1,699 1.06%	105 0.07%	863 0.54%	7,107 4.42%
District 16										
* Arapahoe County * Jefferson County	104,617 61,675	11,084 6,979	93,533 54,696	83,910 49,014	1,213 484	324 197	2,910 1,724	76 32	454 316	4,646 2,929
ocherson oddiny	01,070	0,370	54,550	45,514	404	107	1,724	32	310	2,525
District 16 Total	166,292	18,063 10.86%	148,229 89.14%	132,924 79.93%	1,697 1.02%	521 0.31%	4,634 2.79%	108 0.06%	770 0.46%	7,575 4.56%
to and the diffe		10.0070	00.1476	75.5076	1.0270	0.5170	2.1070	0.0070	0.4070	4.5070
* Boulder County	144,737	31,318	113,419	98,796	1,358	553	5,649	82	748	6,233
* Broomfield County  * Weld County	0 20,181	0 2,384	0 17,797	0 15,651	0 139	0 51	0 851	0 29	0 106	0 970
Weld County	20,101	2,304	17,797	15,051	139	51	651	29	100	970
District 17 Total	164,918	33,702	131,216	114,447	1,497	604	6,500	111	854	7,203
		20.44%	79.56%	69.40%	0.91%	0.37%	3.94%	0.07%	0.52%	4.37%
District 18										
* Boulder County	164,297	15,908	148,389	127,138	1,749	507	10,365	154	920	7,556
District 18 Total	164,297	15,908	148,389	127,138	1,749	507	10,365	154	920	7,556
		9.68%	90.32%	77.38%	1.06%	0.31%	6.31%	0.09%	0.56%	4.60%
istrict 19 * Adams County	2,896	908	1,988	1,602	31	22	219	0	9	105
* Jefferson County	161,628	25,112	136,516	121,272	1,730	718	4,700	93	671	7,332
District 19 Total	164,524	26,020 15.82%	138,504 84.18%	122,874 74.68%	1,761 1.07%	740 0.45%	4,919 2.99%	93 0.06%	680 0.41%	7,437 4.52%
N. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.		10.0270	01.10%	7 1.0070	1.01 /0	0.1070	2.507,0	0.0070	0.1170	1.0270
District 20 * Jefferson County	168,082	20,364	147,718	131,485	1,460	714	5,952	100	781	7,226
District 20 Total	168,082	20,364 12.12%	147,718 87.88%	131,485 78.23%	1,460 0.87%	714 0.42%	5,952 3.54%	100 0.06%	781 0.46%	7,226 4.30%
		12.12%	67.66%	76.23%	0.67%	0.42%	3.54%	0.06%	0.46%	4.30%
istrict 21 * Adams County	162,954	82,199	80,755	64.968	3,912	999	4,743	205	707	5,221
* Arapahoe County	6,078	973	5,105	4,681	62	34	40	1	20	267
District 21 Total	169,032	83,172	85,860	69,649	3,974	1,033	4,783	206	727	5,488
District 21 Total	169,032	49.20%	50.80%	41.20%	2.35%	0.61%	2.83%	0.12%	0.43%	3.25%
District 22										
* Jefferson County	162,619	38,011	124,608	107,516	2,943	1,234	5,015	220	904	6,776
District 22 Total	162,619	38,011 23.37%	124,608 76.63%	107,516 66.12%	2,943 1.81%	1,234 0.76%	5,015 3.08%	220 0.14%	904 0.56%	6,776 4.17%
District 23										
* Larimer County	59,867	7,103	52,764	46,989	444	206	2,116	20	304	2,685
* Weld County	101,007	18,434	82,573	75,462	545	337	1,774	59	385	4,011
District 23 Total	160,874	25,537	135,337	122,451	989	543	3,890	79	689	6,696
DISTRICT EO TOTAL	100,014	15.87%	84.13%	76.12%	0.61%	0.34%	2.42%	0.05%	0.43%	4.16%

* Adams County * Broomfield County	167,762 0	64,109 0	103,653 0	83,173 0	2,961 0	909 0	9,196 0	144 0	762 0	6,508 0
District 24 Total	167,762	64,109 38.21%	103,653 61.79%	83,173 49.58%	2,961 1.77%	909 0.54%	9,196 5.48%	144 0.09%	762 0.45%	6,508 3.88%
District 25     * Adams County     * Broomfield County     * Weld County	94,479 74,173 0	27,036 9,935 0	67,443 64,238 0	55,950 53,943 0	1,682 928 0	551 201 0	4,714 5,097 0	99 80 0	390 351 0	4,057 3,638 0
District 25 Total	168,652	36,971 21.92%	131,681 78.08%	109,893 65.16%	2,610 1.55%	752 0.45%	9,811 5.82%	179 0.11%	741 0.44%	7,695 4.56%
District 26  * Arapahoe County  * Denver County  * Jefferson County	97,679 66,438 0	16,220 12,446 0	81,459 53,992 0	62,686 41,236 0	7,091 5,575 0	529 289 0	5,869 3,379 0	89 129 0	538 374 0	4,657 3,010 0
District 26 Total	164,117	28,666 17.47%	135,451 82.53%	103,922 63.32%	12,666 7.72%	818 0.50%	9,248 5.64%	218 0.13%	912 0.56%	7,667 4.67%
District 27  * Arapahoe County * Douglas County	163,014 2,554	21,637 204	141,377 2,350	101,698 2,030	12,056 56	491 9	16,602 149	214 0	840 6	9,476 100
District 27 Total	165,568	21,841 13.19%	143,727 86.81%	103,728 62.65%	12,112 7.32%	500 0.30%	16,751 10.12%	214 0.13%	846 0.51%	9,576 5.78%
District 28  * Adams County  * Arapahoe County	48,897 115,091	25,165 42,022	23,732 73,069	11,500 39,358	7,096 19,321	220 569	2,894 7,158	228 633	270 694	1,524 5,336
District 28 Total	163,988	67,187 40.97%	96,801 59.03%	50,858 31.01%	26,417 16.11%	789 0.48%	10,052 6.13%	861 0.53%	964 0.59%	6,860 4.18%
District 29 * Arapahoe County	162,492	42,725	119,767	71,182	28,585	718	9,004	617	964	8,697
District 29 Total	162,492	42,725 26.29%	119,767 73.71%	71,182 43.81%	28,585 17.59%	718 0.44%	9,004 5.54%	617 0.38%	964 0.59%	8,697 5.35%
District 30 * Douglas County	168,526	14,848	153,678	128,853	2,165	448	13,238	107	692	8,175
District 30 Total	168,526	14,848 8.81%	153,678 91.19%	128,853 76.46%	2,165 1.28%	448 0.27%	13,238 7.86%	107 0.06%	692 0.41%	8,175 4.85%
District 31 * Denver County	164,485	18,964	145,521	121,427	9,443	700	5,307	113	887	7,644
District 31 Total	164,485	18,964 11.53%	145,521 88.47%	121,427 73.82%	9,443 5.74%	700 0.43%	5,307 3.23%	113 0.07%	887 0.54%	7,644 4.65%
District 32  * Arapahoe County  * Denver County  * Jefferson County	7,471 154,269 0	1,370 47,221 0	6,101 107,048 0	5,029 82,763 0	333 9,422 0	26 868 0	299 6,834 0	4 108 0	39 847 0	371 6,206 0
District 32 Total	161,740	48,591 30.04%	113,149 69.96%	87,792 54.28%	9,755 6.03%	894 0.55%	7,133 4.41%	112 0.07%	886 0.55%	6,577 4.07%
District 33 * Denver County	163,990	56,162	107,828	59,299	31,304	674	7,395	920	791	7,445
District 33 Total	163,990	56,162	107,828	59,299	31,304	674	7,395	920	791	7,445

		34.25%	65.75%	36.16%	19.09%	0.41%	4.51%	0.56%	0.48%	4.54%
District 34 * Denver County	167,908	65,324	102,584	84,145	6,100	1,252	4,299	125	847	5,816
District 34 Total	167,908	65,324 38.90%	102,584 61.10%	84,145 50.11%	6,100 3.63%	1,252 0.75%	4,299 2.56%	125 0.07%	847 0.50%	5,816 3.46%
District 35										
Baca County	3,513	346	3,167	2,923	19	38	8	0	37	142
Bent County	4,520	1,353	3,167	2,825	78	47	26	0	8	183
Cheyenne County	1,754	206	1,548	1,475	2	5	3	0	3	60
Crowley County	3,603	872	2,731	2,385	101	69	30	2	5	139
Elbert County	26,087	2,067	24,020	22,207	123	119	184	21	123	1,243
* El Paso County	63,056	7,553	55,503	48,293	1,444	308	938	104	437	3,979
Huerfano County	6,840	2,138	4,702	4,240	54	79	24	0	49	256
Kiowa County	1,448	104	1,344	1,249	3	0	9	1	1	81
Kit Carson County	7,099	1,415	5,684	5,311	22	24	30	5	32	260
Las Animas County	14,201	5,507	8,694	7,816	120	135	101	12	87	423
Lincoln County	4,973	525	4,448	4,056	89	32	33	22	21	195
Otero County	18,766	7,741	11,025	10,042	135	119	98	28	103	500
Prowers County	12,047	4,703	7,344	6,707	84	121	31	6	50	345
District 35 Total	167,907	34,530 20.56%	133,377 79.44%	119,529 71.19%	2,274 1.35%	1,096 0.65%	1,515 0.90%	201 0.12%	956 0.57%	7,806 4.65%

Source: Colorado Independent Redistricting Commissions Staff.

October 14, 2021



**Assigned District Splits** Plan: 2021 Final Approved House Plan \* indicates split

	FIPS	Total Population	Hispanic	Non-Hispanio
District 1				
	* Denver County			
	* Denver	87,969	42,515	45,454
	* Denver County	87,969	42,515	45,454
	* Jefferson County	0	0	0
	District 1 Total	87,969	42,515	45,454
			48.33%	51.67%
District 2	*D 0 /			
	* Denver County * Denver	88,172	6,901	81,271
	* Denver County	88,172	6,901	81,271
	District 2 Total	88,172	6,901 7.83%	81,271 92.17%
District 3				
District 3	* Arapahoe County			
	Unincorporated	1,284	374	910
	* Aurora	1,940	279	1,661
	Cherry Hills Village Englewood	6,445 33,761	267 6,445	6,178 27,316
	Sheridan	6,122	2,603	3,519
	* Arapahoe County	49,552	9,968	39,584
	* Denver County			
	* Denver	37,946	6,763	31,183
	* Denver County	37,946	6,763	31,183
	District 3 Total	87,498	16,731	70,767
	District 3 Total	07,430	19.12%	80.88%
District 4				
	* Denver County * Denver	87,718	34,936	52,782
	Delivei	07,710	0 <del>-</del> ,900	52,762
	* Denver County	87,718	34,936	52,782
	District 4 Total	87,718	34,936	52,782

District 5				
	* Denver County * Denver	86,960	28,831	58,129
	* Denver County	86,960	28,831	58,129
	District 5 Total	86,960	28,831 33.15%	58,129 66.85%
District 6	* Denver County * Denver	87,264	11,990	75,274
	* Denver County	87,264	11,990	75,274
	District 6 Total	87,264	11,990 13.74%	75,274 86.26%
District 7	* Denver County * Denver	90,537	42,698	47,839
	* Denver County	90,537	42,698	47,839
	District 7 Total	90,537	42,698 47.16%	47,839 52.84%
District 8	* Denver County * Denver	90,282	16,248	74,034
	* Denver County	90,282	16,248	74,034
	District 8 Total	90,282	16,248 18.00%	74,034 82.00%
District 9				
	* Arapahoe County Four Square Mile	22,923	4,470	18,453
	Glendale	4,627	1,128	3,499
	Holly Hills	2,686	221	2,465
	* Arapahoe County	30,236	5,819	24,417
	* Denver County			
	* Denver	60,242	9,235	51,007
	* Denver County	60,242	9,235	51,007
	District 9 Total	90,478	15,054 16.64%	75,424 83.36%
District 10	* D U C			
	* Boulder County Unincorporated	2,350	168	2,182
	* Boulder	87,934	10,343	77,591
	* Gunbarrel	0	0	0

	* Boulder County	90,284	10,511	79,773
	District 10 Total	90,284	10,511 11.64%	79,773 88.36%
District 11				
	* Boulder County			
	Unincorporated	1,000	79	921
	* Longmont	87,336	22,667	64,669
	* Boulder County	88,336	22,746	65,590
	District 11 Total	88,336	22,746	65,590
		,	25.75%	74.25%
District 12				
51011101 12	* Boulder County			
	Unincorporated	6,794	735	6,059
	* Erie	0	0	0
	* Gunbarrel	9,561	584	8,977
	Lafayette	30,452	5,630	24,822
	Louisville	21,234	1,740	19,494
	Niwot	4,306	219	4,087
	Paragon Estates	975	60	915 12,033
	* Superior Valmont	13,099 64	1,066 3	12,033
	vaimont	04	3	01
	* Boulder County	86,485	10,037	76,448
	* Broomfield County			
	* Broomfield	0	0	0
	* Broomfield County	0	0	0
	District 12 Total	86,485	10,037 11.61%	76,448 88.39%
District 13				
	* Chaffee County			
	Unincorporated	6,952	469	6,483
	Buena Vista	2,855	206	2,649
	Garfield	27	1	26
	Johnson Village Maysville	299	23	276
	Nathrop	173 288	7 18	166 270
	Poncha Springs	926	95	831
	Salida	5,685	584	5,101
	* Chaffee County	17,205	1,403	15,802
	Grand County			
	Unincorporated	8,158	588	7,570
	Fraser	1,400	135	1,265
	Granby	2,079	374	1,705
	Grand Lake	410	33	377
	Hot Sulphur Springs	688	54	634
	Kremmling Parshall	1,514 42	281 8	1,233 34
	Tabernash	42 401	8 15	386
	Winter Park	1,034	47	987
	THIO I AIN	.,004		

	Grand County	15,726	1,535	14,191
	Jackson County			
		770	22	740
	Unincorporated	773	33	740
	Walden	608	105	503
	Jackson County	1,381	138	1,243
	Lake County			
	Unincorporated	2,714	1,404	1,310
	Leadville	2,644	658	1,986
	Leadville North	1,896	590	1,306
	Twin Lakes	204	17	187
	I WIII Lakes	204	17	
	Lake County	7,458	2,669	4,789
	Park County			
	Unincorporated	16,230	1,147	15,083
	Alma	297	27	270
	Fairplay	726	55	671
	Guffey	111	5	106
	Hartsel	38	3	35
	Haitsei	30	3	33
	Park County	17,402	1,237	16,165
	Summit County			
	Unincorporated	14,567	2,849	11,718
	Blue River	878	36	842
	Breckenridge	5,080	556	4,524
	Copper Mountain	651	72	579
	Dillon		184	883
		1,067		
	Frisco	2,915	190	2,725
	Heeney	74	5	69
	Keystone	1,369	179	1,190
	Montezuma	74	4	70
	Silverthorne	4,412	1,267	3,145
	Summit County	31,087	5,342	25,745
	District 13 Total	90,259	12,324	77,935
		, in the second second	13.65%	86.35%
District 14				
2.0	* El Paso County			
	Unincorporated	1,032	105	927
	* Colorado Springs	89,583	9,392	80,191
	Colorado Springs	09,303	9,592	00,191
	* El Paso County	90,615	9,497	81,118
	District 14 Total	90,615	9,497	81,118
			10.48%	89.52%
District 15	. =. =			
	* El Paso County			
	Unincorporated	16,107	3,461	12,646
	Cimarron Hills	19,390	4,532	14,858
	* Colorado Springs	54,577	9,232	45,345
	* El Paso County	90,074	17,225	72,849
	District 15 Total	90,074	17,225	72,849
			19.12%	80.88%

District 16
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District 16				
	* El Paso County			
	* Colorado Springs	88,844	17,300	71,544
	* El Paso County	88,844	17,300	71,544
	District 16 Total	88,844	17,300 19.47%	71,544 80.53%
District 17				
	* El Paso County			
	Unincorporated	327	58	269
	* Colorado Springs	81,371	28,377	52,994
	Stratmoor	6,588	2,105	4,483
	* El Paso County	88,286	30,540	57,746
	District 17 Total	88,286	30,540	57,746
	District 17 Total	00,200	34.59%	65.41%
District 18				
	* El Paso County			
	Unincorporated	2,494	310	2,184
	Cascade-Chipita Park	1,630	94	1,536
	* Colorado Springs Green Mountain Falls	77,804 622	10,538 31	67,266 591
	Manitou Springs	4,876	339	4,537
	Rock Creek Park	68	6	62
	* El Paso County	87,494	11,318	76,176
	* Teller County			
	Green Mountain Falls	24	1	23
	* Teller County	24	1	23
	Di	07.510		
	District 18 Total	87,518	11,319 12.93%	76,199 87.07%
District 19				
	* Boulder County			
	Unincorporated	2,163	152	2,011
	* Erie	12,656	1,174	11,482
	Leyner * Longmont	40 10,451	4 1,559	36 8,892
	* Boulder County	25,310	2,889	22,421
	* Weld County			
	Unincorporated	7,999	1,926	6,073
	Dacono	6,313	2,191	4,122
	Erie	17,396	1,896	15,500
	Firestone	16,392	3,490	12,902
	Frederick	14,521	2,381	12,140
	Longmont	1,298	314	984
	* Northglenn	25	8	17
		63,944	12,206	51,738

	District 19 Total	89,254	15,095 16.91%	74,159 83.09%
District 20				
2.001.20	* El Paso County			
	Unincorporated	37,852	4,509	33,343
	Air Force Academy	6,608	935	5,673
	Black Forest	15,107	1,094	14,013
	* Colorado Springs	0	0	0
	Gleneagle Monument	6,653	539 941	6,114
	Palmer Lake	10,407 2,639	241	9,466 2,398
	Woodmoor	9,541	604	8,937
	* El Paso County	88,807	8,863	79,944
	District 20 Total	88,807	8,863 9.98%	79,944 90.02%
District 21				
	* El Paso County			
	Unincorporated	2,458	536	1,922
	Fort Carson	17,701	3,844	13,857
	Fountain	29,880	7,076	22,804
	Security-Widefield	38,778	8,168	30,610
	* El Paso County	88,817	19,624	69,193
	District 21 Total	88,817	19,624	69,193
	Biodiot 21 Total	00,017	22.09%	77.91%
District 22				
	* El Paso County	4.400	4.40	
	Unincorporated	1,136	119	1,017
	* Colorado Springs	88,611	13,471	75,140
	* El Paso County	89,747	13,590	76,157
	District 22 Total	89,747	13,590	76,157
	Diotriot EE Total	55,11	15.14%	84.86%
District 23				
District 25	* Jefferson County			
	Unincorporated	3,075	552	2,523
	* Applewood	3,522	384	3,138
	East Pleasant View	333	26	307
	* Fairmount	0	0	0
	Lakeside	16	3	13
	* Lakewood	47,525	6,899	40,626
	Mountain View	545	137	408
	* West Pleasant View Wheat Ridge	0 32,508	0 7,271	0 25,237
	* Jefferson County	87,524	15,272	72,252
	District 23 Total	87,524	15,272 17.45%	72,252 82.55%

	* Arvada	2,896	908	1,988
	* Adams County	2,896	908	1,988
	* Jefferson County			
	Unincorporated	1,452	1,066	386
	Arvada	77,174	11,633	65,541
	* Fairmount	9,328	636	8,692
	* Jefferson County	87,954	13,335	74,619
	District 24 Total	90,850	14,243 15.68%	
			10.0070	04.0270
District 25	* Jefferson County			
	Unincorporated	35,275	1,587	33 688
	Aspen Park	811	63	
	* Brook Forest	334	5	
	Evergreen	9,313	430	386 65,541 8,692  74,619  76,607 84.32%  33,688 748 329 8,883 3,455 233 1,401 29,830 1,246 2,150 370  82,333  82,333 92.59%  5,966 3,707 0 6,077 7,477 0 4,092 26 810 192 4,337 18  32,702
	Genesee	3,612	157	
	Idledale	244	11	
	Indian Hills	1,474	73	65,541 8,692 74,619 76,607 84.32% 33,688 748 329 8,883 3,455 233 1,401 29,830 1,246 2,150 370 82,333 92.59% 5,966 3,707 0 6,077 7,477 0 4,092 26 810 192 4,337 18
	Ken Caryl	33,842	4,012	,
	Kittredge	1,309	63	
	* Littleton	2,310	160	
	Morrison	396	26	370
	* Jefferson County	88,920	6,587	82,333
	District 25 Total	88,920	6,587	82 333
	Diotriot 20 Total	30,020	7.41%	
District 26				
	* Eagle County			
	Unincorporated	6,932	966	5,966
	Avon	6,073	2,366	
	* Dotsero	0	0	
	Eagle	7,518	1,441	
	Edwards	11,252	3,775	
	Fulford	0	0	
	Gypsum	8,043	3,951	
	McCoy	30	4	
	Minturn	1,034	224	
	Red Cliff	258	66	
	Vail Wolcott	4,838 20	501 2	
	* Eagle County	45,998	13,296	32,702
	Moffat County			
	Unincorporated	3,922	370	3,552
	Craig	9,107	1,730	
	Dinosaur	243	27	
	Maybell	76	2	74
	Moffat County	13,348	2,129	11,219
	Rio Blanco County			
	Unincorporated	1,857	100	1,757
	Meeker	2,375	259	2,116
	Rangely	2,304	264	2,040

Routt County				Routt County	
Unincorporated 8,146 411	7,735				
Hayden 1,942 211	1,731				
Oak Creek 891 79	812				
Phippsburg 234 18	216				
Steamboat Springs 13,231 1,466	11,765	•			
Yampa 399 17	382	17	399	Yampa	
Routt County 24,843 2,202	22,641	2,202	24,843	Routt County	
District 26 Total 90,725 18,250	72,475		90,725	District 26 Total	
20.12%	79.88%	20.12%			
					District 27
* Jefferson County					
Unincorporated 12,834 823	12,011				
* Applewood 4,325 264	4,061				
* Arvada 44,540 6,161	38,379				
* Coal Creek 1,538 77	1,461				
Golden 20,435 1,979	18,456				
* Superior 0 0	0				
* West Pleasant View 4,230 612	3,618	612	4,230	* West Pleasant View	
* Jefferson County 87,902 9,916	77,986	9,916	87,902	* Jefferson County	
District 27 Total 87,902 9,916 11.28%	77,986 88.72%		87,902	District 27 Total	
					District 28
* Jefferson County				* Jefferson County	
Unincorporated 12,653 1,739	10,914	1,739	12,653		
* Columbine 11,924 1,479	10,445	1,479			
Dakota Ridge 33,930 4,450	29,480	4,450		Dakota Ridge	
* Lakewood 28,468 4,576	23,892				
* Jefferson County 86,975 12,244	74,731	12,244	86,975	* Jefferson County	
District 28 Total 86,975 12,244 14.08%	74,731 85.92%		86,975	District 28 Total	
					District 29
* Adams County				* Adams Countv	- · · - <del></del>
Unincorporated 880 148	732	148	880		
* Westminster 45,446 8,774	36,672				
* Adams County 46,326 8,922	37,404	8,922	46,326	* Adams County	
* Jefferson County				* Jefferson Countv	
Unincorporated 1,157 126	1,031	126	1.157	Unincorporated	
* Westminster 41,097 6,063	35,034				
* Jefferson County 42,254 6,189	36,065	6,189	42,254	* Jefferson County	

	Unincorporated	1,218	307	911
	Edgewater	5,035	1,779	3,256
	* Lakewood	80,540	24,156	56,384
	* Jefferson County	86,793	26,242	60,551
	District 30 Total	86,793	26,242	60,551
			30.24%	69.76%
District 31	* Adome County			
	* Adams County	6 227	2,744	2 503
	Unincorporated  * Thornton	6,327 80,769	38,344	3,583 42,425
	* Adams County	87,096	41,088	46,008
	District 31 Total	87,096	41,088	46,008
	District 31 Total	67,090	47.18%	52.82%
District 32				
	* Adams County			
	Unincorporated	1,503	595	908
	Commerce City	62,600	30,605	31,995
	Derby	8,451	6,074	2,377
	North Washington	746	410	336
	Welby	15,594	9,259	6,335
	* Adams County	88,894	46,943	41,951
	D' 1 ' 100 T 1	00.004	40.040	44.054
	District 32 Total	88,894	46,943 52.81%	41,951 47.19%
District 33				
	* Adams County			
	Unincorporated	1,255	213	1,042
	* Thornton	12,210	2,128	10,082
	* Adams County	13,465	2,341	11,124
	* Broomfield County			
	* Broomfield	74,173	9,935	64,238
	* Broomfield County	74,173	9,935	64,238
	* Weld County			
	* Thornton	0	0	0
	* Weld County	0	0	0
	District 33 Total	87,638	12,276	75,362
			14.01%	85.99%
District 34	* A -l O *			
	* Adams County	05	0	
	Unincorporated	25	8	17
	* Northglenn * Thornton	38,222 49,153	14,056 11,039	24,166 38,114
	HOHILOH	43,133	11,000	30,114
	* Adams County	87,400	25,103	62,297
	• •	, -	•	- ,

	District 34 Total	87,400	25,103	62,297
			28.72%	71.28%
District 35				
	* Adams County		_	
	Unincorporated Berkley	35	5	30 5,273
	Federal Heights	12,603 14,438	7,330 8,901	5,273
	Shaw Heights	5,206	2,057	3,149
	Sherrelwood	19,314	11,923	7,391
	* Thornton	28	17	, 11
	Twin Lakes	8,258	4,028	4,230
	* Westminster	25,964	11,530	14,434
	* Adams County	85,846	45,791	40,055
	* Jefferson County			
	* Westminster	4,043	951	3,092
	* Jefferson County	4,043	951	3,092
	District 35 Total	89,889	46,742	43,147
			52.00%	48.00%
District 36	* A desire County			
	* Adams County Unincorporated	402	100	302
	* Aurora	48,001	24,916	23,085
	* Adams County	48,403	25,016	23,387
	* Arapahoe County			
	Unincorporated	961	314	647
	Aetna Estates	1,502	1,150	352
	* Aurora	36,973	9,596	27,377
	* Arapahoe County	39,436	11,060	28,376
	District 36 Total	87,839	36,076	51,763
	2.00.00.00 7.000	0.,000	41.07%	58.93%
District 37				
	* Arapahoe County			
	Unincorporated	2,766	414	2,352
	* Aurora	1,224	208	1,016
	* Centennial	47,992	3,857	44,135
	Cherry Creek Dove Valley	11,495 5,644	1,065 1,031	10,430 4,613
	Foxfield	754	54	700
	Greenwood Village	15,702	1,000	14,702
	Inverness	2,234	260	1,974
	* Arapahoe County	87,811	7,889	79,922
	District 37 Total	87,811	7,889	79,922
			8.98%	91.02%
District 38	* Arapahoe County			
	Unincorporated	43	8	35

Bow Mar   S87   24   563   27515   1000   1000   1751   10000   10000   10000   10000   10000   10000   10000					
Columbine Valley 1,503 63 1,440 Columbine Valley 1,503 63 1,440 Columbine Valley 1,503 63 1,440 Columbine Valley 1,503 63 3,832  * Arapahoe County 77,216 9,022 68,194  * Jefferson County 8 Bow Mar 287 25 242 Columbine 11,344 1,105 12,333  * Littleton 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
Columbine Valley		* Centennial		2,793	
"Littleton         42,792         5,960         36,832           "Arapahoe County         77,216         9,022         68,194           "Jefferson County         267         25         242           "Columbrine         11,344         1,105         10,289           "Littleton         0         0         0           "Jefferson County         11,611         1,130         10,481           District 39         "District 38 Total         88,827         10,152         78,875           District 39         "Douglas County         11,43%         88,57%           District 39         "Douglas County         11,611         1,43%         88,57%           District 39         "Douglas County         1,652         19,598         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%         48,57%		* Columbine	1,983	174	1,809
*Arapahoe County		Columbine Valley	1,503	63	1,440
**Jefferson County**  **Bow Mar** **Columbine** **Littleton** **Littleton** **Out Tile 11,344* **Littleton** **Littleton** **Jefferson County** **Littleton** **District 38 Total**  **District 39 Total**  **District 39 Total**  **District 39 Total**  **District 39 Total**  **District 40 Total**  **Paraphoe County**  **District 41 Total**  **District 41 Total**  **Paraphoe County**  **Paraphoe Cou		* Littleton	42,792	5,960	36,832
Sow Mar		* Arapahoe County	77,216	9,022	68,194
**Columbine 11,344 1,105 10,239		* Jefferson County			
**Littleton 0 0 0 0  **Jefferson County 11,611 1,130 10,481  District 38 Total 88,827 10,152 78,675 11,43% 88,57%  **District 39  **Douglas County Unincorporated 21,250 1,652 19,598 Acres Green 2,925 414 2,511 Castle Pines 11,039 754 10,258 166 1,652 19,598 Acres Original Pines 11,039 754 10,258 166 1,652 19,598 Acres Original Pines 11,039 754 10,258 166 1,652 19,598 Acres Original Pines Village 2,585 116 2,469 Franktown 409 27 325 182 166 1,664 1,661 1,611 14,805 Larkspur 207 25 182 Larkspur 207 25 182 Louviers 2,255 26 2,998 Meridian 4,782 535 4,257 Perry Park 1,933 106 18,277 Perry Park 9,420 915 8,505 Sedalia 177 21 156 Setering Ranch 1,789 185 1,604 Westcreek 120 8 112 8 112  150 Setering Ranch 2,749 80,019  **District 40 **Arapahoe County Unincorporated 16,291 2,574 13,717 Aurora 73,944 15,150 58,794  15,714  72,511 District 40 Original Park 89,053 21,852 67,201 District 41 Total 89,053 21,852 67,201 District 41 Total 89,053 21,852 67,201		Bow Mar	267	25	242
*Littleton 0 0 0  *Jefferson County 11,611 1,130 10,481  District 38 Total 88,827 10,152 78,675  *District 39  *Douglas County Unincorporated 21,250 1,652 19,598 Acres Green 2,925 414 2,511 Castle Pines 11,039 754 10,285  *Castle Pines Village 2,585 116 2,499 Franktown 409 27 326  *Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 192 Louviers 2,955 2,6 299 Meridian 4,792 535 4,257 Petry Park 1,933 106 1,827 Robotough Park 9,420 915 8,505 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 7,149 80,019  District 40  *Arapahoe County Unincorporated 16,291 2,574 13,717 Little 1,407 12,511  District 40 Total 90,235 17,724 72,511  District 41  *Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Columbine	11,344	1,105	10,239
District 38 Total 88,827 10,152 78,675 88,575  District 39  * Douglas County Unincorporated 21,250 1,652 19,598 Acres Green 2,925 414 2,511 Castle Pines 110,39 754 10,285 116 2,469 Franktown 409 27 382 *Highlands Ranch 15,966 1,161 14,805 1,264 1,264 1,204 13,057 Louviers 295 26 26 269 Medidian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Stafing Ranch 1,799 185 1,604 Westcreek 120 8 7,149 80,019 District 49  * District 39 Total 87,168 7,149 80,019 District 40 Total 90,235 17,724 72,511 District 40 Total 90,235 17,724 72,511 Pistrict 41 Total Park 1,9452 1,852 67,201 Pistrict 41 Total 90,053 21,852 67,201 Pistrict 41 Total 9		* Littleton			
District 39  *Douglas County Unincorporated 21,250 1,652 19,588 Acres Green 2,925 414 2,511 Castle Pines 11,039 754 10,285  *Castle Pines 11,039 754 10,285 Franktown 409 27 382 *Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,007 Louviers 285 28 28 289 Mendian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedial 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 7,149 80,019  District 40  *Arapahoe County Unincorporated 16,291 2,574 13,774 *Aurora 73,944 15,150 58,794  District 40 Total 90,235 17,724 72,511  District 40 Total 90,235 21,852 67,201  District 41 Total 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Jefferson County	11,611	1,130	10,481
District 39  * Douglas County Unincorporated Acres Green 2,925 414 2,511 Castle Pines 11,009 754 10,285  * Castle Pines Village 2,585 116 2,489 Franktown 409 27 32 32  * Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 269 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Steffing Ranch 1,789 185 1,604 Westcreek 120 8 112  * Douglas County 87,168 7,149 80,019  District 40  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  District 41 * Arapahoe County 4,000 10,00		District 38 Total	88,827	10,152	78,675
*Douglas County Unincorporated 21,250 1,652 19,588 Acres Green 2,925 414 2,511 Castle Pines 11,039 754 10,285 *Castle Pines 11,039 754 10,285 *Castle Pines 11,039 754 10,285 *Castle Pines 11,039 754 10,285 *Tenktown 409 27 382 *Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,087 Louviers 295 26 28 289 Mendian 4,792 535 4,257 Perry Park 1,933 106 1,827 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112  *Douglas County 87,168 7,149 80,019  District 40  *Arapahoe County Unincorporated 16,291 2,574 13,717 *Aurora 73,944 15,150 58,794  District 40 Total 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  District 41 *Arapahoe County "Aurora 89,053 21,852 67,201  District 41 *Arapahoe County "Aurora 89,053 21,852 67,201				11.43%	88.57%
Unincorporated Acres Green 2,925 414 2,511 Castle Pines 11,039 754 10,285 * Highlands Ranch 15,966 11,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 269 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 1777 21 156 Sedalia 1777 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112  * Douglas County 87,168 7,149 80,019  * District 39 Total 87,168 7,149 80,019  District 40  * Arapahoe County 47,168 7,149 80,019  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County 8,053 21,852 67,201  District 41  * Arapahoe County 8,053 21,852 67,201	District 39				
Acres Green					
Castle Pines Village 2,585 116 2,489 Franktown 409 27 332 **Ternktown 409 27 352 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 289 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Perry Park 1,933 106 1,827 Roxborrough Park 9,420 915 8,505 Sedalia 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112 **Ternktown 4,749 80,019 8,20% 91,80% **Ternktown 4,749 80,019 **Ternktown 4,749 80,019 **Ternktown 4,749 80,019 8,20% 91,80%					
**Castle Pines Village Franktown 409 27 389 Franktown 409 27 382 **Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 299 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 1777 21 156 Sterling Ranch 1,799 185 1,604 Westcreek 120 8 112  **Douglas County 87,168 7,149 80,019  District 39 Total 87,168 7,149 80,019  **Arapahoe County Unincorporated 16,291 2,574 13,717 **Aurora 73,944 15,150 58,794  **Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  **District 40 Total 90,235 17,724 72,511  District 41 Total 89,053 21,852 67,201  **Arapahoe County 89,053 21,852 67,201					
Franktown 409 27 332 * Highlands Ranch 15,966 1,161 14,805 Larkspur 207 25 182 Lone Tree 14,261 1,204 13,657 Louviers 295 26 269 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112  * Douglas County 87,168 7,149 80,019  District 39 Total 87,168 7,149 80,019  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Tarapahoe County 90,235 17,724 72,511  * District 40 Total 90,235 17,724 72,511  District 41 Total 89,053 21,852 67,201  * Arapahoe County 89,053 21,852 67,201					
* Highlands Ranch Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 7,149 80,019  * Douglas County 87,168 7,149 80,019  District 39 Total 87,168 7,149 80,019  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * District 40 Total 99,235 21,852 67,201  * Arapahoe County 4,005 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Castle Pines Village	2,585		2,469
Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 269 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 1777 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112  * Douglas County 87,168 7,149 80,019  District 39 Total 87,168 7,149 80,019  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * District 40 Total 90,235 17,724 72,511  * Arapahoe County 90,235 17,724 72,511  * Arapahoe County 89,053 21,852 67,201  * Arapahoe County 89,053 21,852 67,201		Franktown	409	27	382
Larkspur 207 25 182 Lone Tree 14,261 1,204 13,057 Louviers 295 26 26 269 Meridian 4,792 535 4,257 Perry Park 1,933 106 1,827 Roxborough Park 9,420 915 8,505 Sedalia 177 21 156 Sterling Ranch 1,789 185 1,604 Westcreek 120 8 112  * Douglas County 87,168 7,149 80,019  District 39 Total 87,168 7,149 80,019  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * District 40 Total 90,235 17,724 72,511  * Arapahoe County 90,235 21,852 67,201		* Highlands Ranch	15,966	1,161	14,805
Louviers   295   26   289   Meridian   4,792   535   4,257		Larkspur		25	182
Louviers   295   26   269     Meridian   4,792   535   4,257     Petry Park   1,933   106   1,827     Roxborough Park   9,420   915   8,505     Sedalia   177   21   156     Sterling Ranch   1,789   185   1,604     Westcreek   120   8   112     * Douglas County   87,168   7,149   80,019     District 39 Total   87,168   7,149   80,019     * Arapahoe County   16,291   2,574   13,717     * Aurora   73,944   15,150   58,794     * Arapahoe County   90,235   17,724   72,511     District 40 Total   90,235   17,724   72,511     * District 40 Total   90,235   17,724   72,511     * Arapahoe County   89,053   21,852   67,201     * Arapahoe County   89,053   21,852   67,201     District 41 Total   89,053   21,852   67,201					
Meridian   4,792   535   4,257   Perry Park   1,933   106   1,827   Roxborough Park   9,420   915   8,505   Sedalia   177   21   156   Sterling Ranch   1,789   185   1,604   Westcreek   120   8   112					
Perry Park   1,933   106   1,827   Roxborough Park   9,420   915   8,505   Sedalia   177   21   156   Sterling Ranch   1,789   185   1,604   Westcreek   120   8   112					
Roxborough Park   9,420   915   8,505   Sedalia   177   21   156					
Sedalia   177					
Sterling Ranch   1,789   185   1,604   120   8   112					
Westcreek   120   8   112					
District 40  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201					
District 40  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County 90,235 17,724 72,511  District 41  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Douglas County	87,168	7,149	80,019
District 40  * Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County 90,235 17,724 72,511  District 41  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		District 30 Total	87 168	7 1/10	80.019
* Arapahoe County Unincorporated 16,291 2,574 13,717 * Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		District 39 Total	07,100		
Unincorporated	District 40				
Unincorporated		* Arapahoe County			
* Aurora 73,944 15,150 58,794  * Arapahoe County 90,235 17,724 72,511  District 40 Total 90,235 17,724 72,511  * Arapahoe County * Aurora 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201			16,291	2,574	13,717
District 40 Total 90,235 17,724 72,511 19.64% 80.36%  District 41  * Arapahoe County * Aurora 89,053 21,852 67,201  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Aurora	73,944	15,150	58,794
District 41  * Arapahoe County		* Arapahoe County	90,235	17,724	72,511
District 41  * Arapahoe County					
* Arapahoe County		District 40 Total	90,235	*	
* Aurora 89,053 21,852 67,201  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201	District 41				
* Aurora 89,053 21,852 67,201  * Arapahoe County 89,053 21,852 67,201  District 41 Total 89,053 21,852 67,201		* Arapahoe County			
District 41 Total 89,053 21,852 67,201		* Aurora	89,053	21,852	67,201
		* Arapahoe County	89,053	21,852	67,201
		District 41 Total	89.053	21.852	67.201
		Diotion 41 Total	55,000		

District	42
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51,143	39,721	90,864	* Arapahoe County * Aurora	District 42
51,143	39,721	90,864	* Arapahoe County	
		30,004	- Trapanoe Godiny	
51,143	39,721	90,864	District 42 Total	
56.29%	43.71%			
				District 43
70 644	7 901	07 522	* Douglas County * Highlands Ranch	
79,641 537	7,891 103	87,532 640	* Littleton	
80,178	7,994	88,172	* Douglas County	
90.179	7.004	00 170	District 42 Total	
80,178 90.93%	7,994 9.07%	88,172	District 43 Total	
				District 44
			* Douglas County	
11,614	1,111	12,725	Unincorporated	
627	64	691	Grand View Estates	
2,975	227	3,202	Meridian Village	
52,196	6,346	58,542	Parker	
3,148	342	3,490	Sierra Ridge	
2,604 8,267	176 805	2,780 9,072	Stepping Stone Stonegate	
0,207		3,072	Stonegate	
81,431	9,071	90,502	* Douglas County	
81,431	9,071	90,502	District 44 Total	
89.98%	10.02%			
				District 45
			* Douglas County	
2,794	241	3,035	Unincorporated	
1,665 64,655	78 8,543	1,743 73,198	* Castle Pines Village Castle Rock	
10,490	825	11,315	The Pinery	
79,604	0.697	90 201	* Douglas County	
79,004	9,687	89,291	Douglas County	
79,604	9,687	89,291	District 45 Total	
89.15%	10.85%	•		
				District 46
			* Pueblo County	
11,253	4,043	15,296	Unincorporated	
218	379	597	Avondale	
475	46	521	Beulah Valley	
409	383	792	Blende	
1,941	299	2,240	Colorado City	
39,860 174	30,905	70,765 207	* Pueblo	
174 194	33 76	207 270	Rye Vineland	
54,524	36,164	90,688	* Pueblo County	

		39.88%	60.12%
District 47			
Baca County	4 000	04	4 000
Unincorporated	1,293	61	1,232
Campo	103	8	95
Pritchett	112	10	102
Springfield	1,330	158	1,172
Two Buttes	34	2	32
Vilas	98	19	79
Walsh	543	88	455
Baca County	3,513	346	3,167
Bent County			
Unincorporated	1,891	336	1,555
Hasty	182	45	137
Las Animas	2,317	934	1,383
McClave	130	38	92
Bent County	4,520	1,353	3,167
Crowley County			
Unincorporated	1,794	367	1,427
Crowley	1,794	57	1,427
Olney Springs	315	70	245
		327	740
Ordway Sugar City	1,067 261	51	210
Crowley County	3,603	872	2,731
	0,000	072	2,731
* Huerfano County			
Unincorporated	2,246	360	1,886
La Veta	862	86	776
Walsenburg	3,065	1,529	1,536
* Huerfano County	6,173	1,975	4,198
Kiowa County			
Unincorporated	610	42	568
Brandon	21	1	20
Eads	673	55	618
Haswell	71	3	68
Sheridan Lake	55	3	52
Towner	18	0	18
Kiowa County	1,448	104	1,344
Las Animas County			
Unincorporated	4,394	1,073	3,321
Aguilar	457	215	242
Branson	57	8	49
Cokedale	127	25	102
El Moro	216	57	159
Hoehne	80	36	44
Jansen	101	46	55
Kim	63	18	45
Lynn	11	6	5
Segundo	100	32	68
Starkville	62	28	34
Stonewall Gap	66	4	62
Trinidad	8,368	3,892	4,476
Valdez	46	34	12
Weston	53	33	20
Las Animas County	14,201	5,507	8,694

Otero County Unnonoporated Cherew Fowler Cherew 1239 100 1779 17367 1736				
Cheraw	Otero County			
Fowler 1,267 234 1,023 La Junta 7,357 3,632 3,725 La Junta Gardens 124 42 82 Manzanola 343 150 133 North La Junta 484 156 328 Rocky Ford 3,893 2,217 1,676 Swink 609 153 456 Oter County 18,766 7,741 11,025  Prowers County Unincorporated 2,540 546 1,985 Granda 446 315 131 Hartman 57 21 38 Holly 337 422 415 Lamar 7,729 3,287 4,442 Wiley 438 113 225 Prowers County Unincorporated 1,627 4,703 7,344  "Pueblo County Unincorporated 1,622 416 12,086 Prowers County Unincorporated 1,622 416 12,087 "Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 "Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 County Unincorporated 2,707 789 1,918 Bighton 39,844 17,018 22,826  "Adams County 1,768 1,918 22,826  "Adams County 47,583 18,585 28,988 "Adams County 47,583 18,585 28,988 "Weld County 47,583 18,585 28,988 "Adams County 47,583 18,585 28,988 "Adams County 47,583 18,586 38,888 "Adams C				·
La Junta (Archens 124 42 82 82 84 843 150 193 844 156 328 848 845 845 845 845 845 845 845 845 84				
La Junta Gardens 124 42 932 Manzanola 343 150 133 North La Junta 484 156 328 Rocky Ford 3,893 2,217 1,676 Swink 609 153 456  Otero County 18,766 7,741 11,025  Prowers County Unincorporated 2,540 545 1,985 Granada 446 315 133 Hartman 57 2 2 415 Holly 937 12 3,677 Holly 9438 113 325  Prowers County 12,047 4,703 7,344  **Pueblo County Unincorporated 1,622 416 1,286 Boone 307 123 184 **Pueblo West 21,892 6,092 15,800  **Pueblo West 21,892 6,092 15,800  **Pueblo County Unincorporated 1,622 416 1,286 Boone 307 123 184  **Pueblo County Unincorporated 1,622 416 6,631 17,190  **Pueblo County Unincorporated 1,622 6,092 15,800  **Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 District 48  **Adams County Unincorporated 2,707 789 1,918 Cuntoblie 1 17,190  District 48  **Adams County Unincorporated 3,844 17,018 22,828 Cuntoblie 1 17,190  Todd Creek 5,031 777 4,254  **Adams County Unincorporated 12,334 3,241 9,093 Aristocraft Ranchettes 1,718 1,014 704  **Brighton 365 96 28,980  **Weld County Unincorporated 12,334 3,241 9,093 Aristocraft Ranchettes 1,718 1,014 704  **Brighton 365 96 28,980  **Weld County Unincorporated 12,334 3,241 9,093 Aristocraft Ranchettes 1,718 1,014 704  **Brighton 365 96 28,980  **Weld County Unincorporated 12,334 3,241 9,06 Gilcrest 1,004 542 492 Hudson 1,655 551 1,104  **Kenesburg 1,253 165 1,088 Kenesey 1,496 458 1,038 La Salte 2,368 869 1,500 Lochbue 8,102 3,685 4,416 Pluticville 2,862 1,283 1,579  **Weld County 41,278 16,321 24,957  District 49  **Boulder County 41,278 16,321 24,957	Fowler			
Manzanola			•	
North La Junta 484 156 328 Rocky Ford Swink 609 153 456 Citer County 18,766 7,741 11,025 Prowers County Unincorporated 2,540 545 1,995 Granada 446 315 131 Hartman 57 21 38 Holly 937 422 415 Lamer 7,729 3,257 4,442 Wiley 438 113 325 Prowers County Unincorporated 1,622 416 12,08 Boone 307 123 184 Boone 307 123 184 Pueblo County Unincorporated 1,622 416 1,206 Boone 307 123 184 Pueblo West 21,892 6,092 15,800 Televity Pueblo West 21,892 6,092 15,800 Televity Pueblo County 23,821 6,631 17,190 District 47 Total 88,092 29,232 58,860 Swince 33,18% 66,82% District 48 Adams County 47,583 18,585 28,986 Televity 47,583 18,585 28,986 Adams County Unincorporated 1,718 1,719 Televity 47,583 18,585 28,986 Adams County Unincorporated 1,718 1,014 704 Adams County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,388 868 1,008 1,009 La	La Junta Gardens			
Rooky Ford   3,833   2,217   1,576   5,560   153   456   656   658   669   153   456   658   669   153   456   658   669   6	Manzanola	343		193
Swink   609   153   456	North La Junta	484	156	328
Otero County	Rocky Ford	3,893	2,217	1,676
Prowers County   Unincorporated   2,540   545   1,995     Granada   446   315   131     Hartman   57   21   36     Holly   837   422   416     Lamar   7,729   3,287   4,442     Wiley   438   113   325     Prowers County   12,047   4,703   7,344     *Pueblo County   Unincorporated   1,622   416   1,206     Boone   307   123   184     *Pueblo West   21,892   6,092   15,800     *Pueblo County   23,821   6,631   17,190     *Pueblo County   23,821   7,77   8,90   1,918     Brighton   39,844   17,018   22,826     Lochbuie   1   1   1   2,826     Lochbuie   1   1   1   2,826     *Adams County   47,583   18,585   28,998     *Weld County   47,583   16,50   1,044     Aristocrat Ranchettes   1,718   1,014   704     Brighton   365   96   269     Fort Lupton   7,991   4,417   3,574     Glicrest   1,034   542   492     Hudson   1,655   551   1,104     Keenesburg   1,253   165   1,088     Kersey   1,496   458   1,038     La Salle   2,368   868   1,500     *Weld County   41,278   16,321   24,957      District 48 Total   88,861   34,906   53,955     District 49   10 titled County   41,278   16,321   24,957      District 49   10 titled County   41,278   16,321   24,957     District 49   10 titled County   41,278   16,321   24,957     District 49   10 titled County   41,278   16,321   24,957     District 49   10 titled County   41,278   16,321   24,957     District 49   10 titled County   41,278   10 titled County   41,27	Swink	609	153	456
Unincorporated   2,540   546   1,995	Otero County	18,766	7,741	11,025
Unincorporated   2,540   546   1,995	Prowers County			
Granada		2.540	545	1.995
Hartman				
Holly				
Lamar   7,729   3,287   4,442				
Wiley   438	•			
Prowers County  * Pueblo County Unincorporated				
*Pueblo County Unincorporated 1,622 416 1,206 Boone 307 123 184 *Pueblo West 21,892 6,092 15,800  *Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 33.18% 66,82%  District 48  *Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 0 Todd Creek 5,031 777 4,254  *Adams County Unincorporated 1,763 18,565 28,998  *Weld County Unincorporated 1,718 1,014 704 Brighton 36,56 96 2699 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,088 Kersey 1,496 458 1,088 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  *Weld County Unincorporated 1,236 866 4,416 Platteville 2,962 1,283 1,679  *Weld County Unincorporated 1,236 866 4,416 Platteville 2,962 1,283 1,679  *Weld County Unincorporated 1,236 866 3,1050 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  *Weld County Unincorporated 1,4278 16,321 24,957  District 49	vviiey			
Unincorporated Boone 307 123 184 * Pueblo West 21,892 6,092 15,800  * Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 33,18% 66,82%  District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 0 Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,033 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Kenessburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 888 1,530 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 16,79  * Weld County Unincorporated 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 888 1,530 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39,28%  District 48 Total 88,861 34,906 53,955 39,28%	Prowers County	12,047	4,703	7,344
Boone   307   123   184     * Pueblo West   21,892   6,092   15,800     * Pueblo County   23,821   6,631   17,190     District 47 Total   88,092   29,232   58,860     33,18%   66,82%     District 48				
* Pueblo West 21,892 6,092 15,800  * Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 33,18% 66,82%  District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 0 Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,093 Aristorat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,666 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 60,72%  District 49  * Boulder County 41,278 16,321 24,957				
*Pueblo County 23,821 6,631 17,190  District 47 Total 88,092 29,232 58,860 33,18% 66,82%  District 48  *Adams County Unincorporated 2,707 789 1,918 22,826 Lochbule 1 1 0 0 Todd Creek 5,031 777 4,254  *Adams County 47,583 18,585 28,998  *Weld County Unincorporated 12,334 3,241 9,033 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuile 8,102 3,886 4,416 Platteville 2,962 1,283 1,679  *Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 60,72%  District 49  *Boulder County	Boone	307	123	
District 47 Total 88,092 29,232 58,860 33.18% 66.82%  District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbule 1 1 1 0 0 Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998 * Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 668 1,500 Lochbule 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 60.72%  District 49  * Boulder County	* Pueblo West	21,892	6,092	15,800
District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 Todd Creek 5,031 777 4,254  * Adams County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 District 49  * Boulder County	* Pueblo County	23,821	6,631	17,190
District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 Todd Creek 5,031 777 4,254  * Adams County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 District 49  * Boulder County				
District 48  * Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 Todd Creek 5,031 777 4,254  * Adams County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 District 49  * Boulder County	District 47 Total	88 092	29 232	58 860
* Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 District 49  * Boulder County	Bistist 47 Fotal	00,002		·
* Adams County Unincorporated 2,707 789 1,918 Brighton 39,844 17,018 22,826 Lochbuie 1 1 1 0 Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 District 49  * Boulder County	District 48			
Unincorporated 2,707 789 1,918     Brighton 39,844 17,018 22,826     Lochbuie 1 1 1 0     Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,093     Aristocrat Ranchettes 1,718 1,014 704     Brighton 365 96 269     Fort Lupton 7,991 4,417 3,574     Glicrest 1,034 542 492     Hudson 1,655 551 1,104     Keenesburg 1,253 165 1,088     Kersey 1,496 458 1,038     Kersey 1,496 458 1,038     La Salle 2,368 868 1,500     Lochbuie 8,102 3,686 4,416     Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955     507,72%  District 49				
Brighton   39,844   17,018   22,826   Lochbuie   1		2 707	789	1 918
Lochbuie				
Todd Creek 5,031 777 4,254  * Adams County 47,583 18,585 28,998  * Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39,28%  District 49  * Boulder County	· · · · · · · · · · · · · · · · · · ·			·
* Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39,28% 60.72%  District 49  * Boulder County				
* Weld County Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39,28% 60.72%  District 49  * Boulder County	* Adams County	47,583	18,585	28,998
Unincorporated 12,334 3,241 9,093 Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28%  District 49  * Boulder County	·			
Aristocrat Ranchettes 1,718 1,014 704 Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28%  District 49  * Boulder County		12 224	2 2/1	0.002
Brighton 365 96 269 Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%				·
Fort Lupton 7,991 4,417 3,574 Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 16,321 24,957  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28%  District 49  * Boulder County				
Gilcrest 1,034 542 492 Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28%  District 49  * Boulder County				
Hudson 1,655 551 1,104 Keenesburg 1,253 165 1,088 Kersey 1,496 458 1,038 La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County				
Keenesburg				
Kersey				
La Salle 2,368 868 1,500 Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County				
Lochbuie 8,102 3,686 4,416 Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County				
Platteville 2,962 1,283 1,679  * Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County				
* Weld County 41,278 16,321 24,957  District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County				
District 48 Total 88,861 34,906 53,955 39.28% 60.72%  District 49  * Boulder County	Platteville	2,962	1,283	1,679
39.28% 60.72%  District 49  * Boulder County	* Weld County	41,278	16,321	24,957
39.28% 60.72%  District 49  * Boulder County	District 48 Total	88,861	34,906	53,955
* Boulder County		·		
Unincorporated 9,706 529 9,177		0.700	500	A /
	Unincorporated	9,706	529	9,177

Allenspark	569	18	551
Altona	513	19	494
Bark Ranch	202	5	197
Bonanza Mountain Estates	127	8	119
* Boulder	20,383	1,109	19,274
* Coal Creek	667	40	627
Crisman	179	9	170
Eldora	140	6	134
Eldorado Springs	559	47	512
Glendale	64	3	61
Gold Hill	220	7	213
Hidden Lake	24	2	22
Jamestown	256	5	251
Lazy Acres	958	32	926
Lyons	2,211	117	2,094
Mountain Meadows	238	13	225
Nederland	1,475	59	1,416
Pine Brook Hill	975	44	931
Seven Hills	129	2	127
St. Ann Highlands	325	10	315
Sugarloaf	274	9	265
Sunshine	198	2	196
* Superior	0	0	0
Tall Timber	185	6	179
Ward	128	0	128
* Boulder County	40,705	2,101	38,604
·			
Clear Creek County			
	4.507	20	4 440
Unincorporated	1,537	89	1,448
Blue Valley	175	6	169
* Brook Forest	288	12	276
Central City	0	0	0
Downieville-Lawson-Dumont			
	529	61	468
Echo Hills	313	13	300
Empire	347	34	313
Floyd Hill	1,048	65	983
Georgetown	1,123	121	1,002
Idaho Springs	1,788	125	1,663
Pine Valley	364	8	356
Silver Plume	207	15	192
St. Mary's	333	23	310
Upper Bear Creek	985	50	935
Upper Witter Gulch	381	26	355
Clear Creek County	9,418	648	8,770
Olear Oreek County	5,410	040	0,770
2" . 2			
Gilpin County			
Unincorporated	4,418	257	4,161
Black Hawk	128	21	107
Central City	779	74	705
Coal Creek	292	14	278
Rollinsville	194	15	179
Gilpin County	5,811	381	5,430
Onput County	0,011	001	0,400
* Larimer County			
Unincorporated	24,270	1,412	22,858
Estes Park	5,909	906	5,003
Red Feather Lakes	427	17	410
Neu Feather Lakes	441	17	410
* Larimer County	30,606	2,335	28,271
District 40 Total	00.540	E 405	04.075
District 49 Total	86,540	5,465	81,075
District 49 Total	86,540	5,465 6.31%	81,075 93.69%

District 50				
	* Weld County	4.000	4.000	0.000
	Unincorporated  * Evans	4,299 22,237	1,996 10,349	2,303 11,888
	Garden City	260	184	76
	* Greeley	61,118	30,854	30,264
	* World County	97.044	42.202	44 504
	* Weld County	87,914	43,383	44,531
	District 50 Total	87,914	43,383	44,531
			49.35%	50.65%
District 51	* Larimer County			
	Unincorporated	11,336	1,417	9,919
	Loveland	76,526	9,949	66,577
	* Larimer County	87,862	11,366	76,496
	District 51 Total	87,862	11,366	76,496
		,	12.94%	87.06%
District 52	* Lavina an Occupto			
	* Larimer County Unincorporated	3,193	456	2,737
	* Fort Collins	87,594	9,964	77,630
	* Larimer County	90,787	10,420	80,367
	District 52 Total	90,787	10,420	80,367
			11.48%	88.52%
District 53				
	* Larimer County	7.000	0.000	F 000
	Unincorporated  * Fort Collins	7,932	2,029	5,903
	FUIT COIIINS	82,517	11,109	71,408
	* Larimer County	90,449	13,138	77,311

	* Weld County	87,914	43,383	44,531
	District 50 Total	87,914	43,383	44,531
			49.35%	50.65%
District 51				
District 31	* Larimer County			
	Unincorporated	11,336	1,417	9,919
	Loveland	76,526	9,949	66,577
	* Larimer County	87,862	11,366	76,496
	District E4 Total	07.000	44.200	70.400
	District 51 Total	87,862	11,366 12.94%	76,496 87.06%
District 52				
	* Larimer County			
	Unincorporated	3,193	456	2,737
	* Fort Collins	87,594	9,964	77,630
	* Larimer County	90,787	10,420	80,367
	District 52 Total	90,787	10,420	80,367
	2.66. 62 . 6.6.	33,73.	11.48%	88.52%
District 53				
	* Larimer County			
	Unincorporated	7,932	2,029	5,903
	* Fort Collins	82,517	11,109	71,408
	* Larimer County	90,449	13,138	77,311
	District 53 Total	90,449	13,138	77,311
		·	14.53%	85.47%
District 54				
	* Delta County			
	Unincorporated	7,590	823	6,767
	Cedaredge	2,282	181	2,101
	Delta	9,062	2,188	6,874
	Orchard City	3,143	310	2,833
	* Delta County	22,077	3,502	18,575
	* Mesa County			
	Unincorporated	18,504	1,440	17,064
	Clifton	20,533	4,958	15,575
	Collbran	369	27	342
	De Beque	494	47	447
	Fruita	13,427	1,590	11,837
	Fruitvale * Grand Junction	8,291 3,256	1,187 733	7,104
		3,256	733	2,523
	Loma	1,315	66	1,249

2,266	304	2,570	Palisade
58,407	10,352	68,759	* Mesa County
76,982 84.75%	13,854 15.25%	90,836	District 54 Total
04.7376	13.2376		
			trict 55
7,328	1,848	9,176	* Mesa County Unincorporated
52,976	9,650	62,626	* Grand Junction
5,806	911	6,717	Orchard Mesa
8,437	643	9,080	Redlands
74,547	13,052	87,599	* Mesa County
74,547	13,052	87,599	District 55 Total
85.10%	14.90%	67,399	District 35 Total
			trict 56
0.000	4.704	0.007	* Adams County
6,926 1,948	1,761 499	8,687 2,447	Unincorporated Bennett
1,699	341	2,040	Strasburg
59	29	88	Watkins
10,632	2,630	13,262	* Adams County
			* Arapahoe County
2,350	486	2,836	Unincorporated
5,808	786	6,594	* Aurora
363	56	419	Bennett
86	19	105	Brick Center
1,203	123	1,326	Byers
377 798	65 271	442 1,069	Comanche Creek Deer Trail
116	37	153	Peoria
1,052	220	1,272	Strasburg
508	86	594	Watkins
12,661	2,149	14,810	* Arapahoe County
			Cheyenne County
584	50	634	Unincorporated
93	9	102	Arapahoe
666 205	97 50	763 255	Cheyenne Wells Kit Carson
1,548	206	1,754	Cheyenne County
			Elbert County
17,966	1,511	19,477	Unincorporated
169	19	188	Elbert
1,493	184	1,677	Elizabeth Kiowa
673 76	54 3	727 79	Matheson
3,089	247	3,336	Ponderosa Park
554	49	603	Simla
24,020	2,067	26,087	Elbert County
			* El Paso County
15,769	1,979	17,748	Unincorporated
717	46	763	Calhan

Peyton Ramah	21 4 2,536 252 56 954 30 16 100 7 1,415 158 2 6 34 325 525 525	193 107 17,553 1,991 127 2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
* El Paso County  Kit Carson County Unincorporated 2,243 Bethune 183 Burlington 3,180 Flagler 568 Seibert 172 Stratton 658 Vona 95  Kit Carson County 7,099  Lincoln County Unincorporated 1,773 Arriba 202 Genoa 153 Hugo 791 Limon 2,054  Lincoln County 4,973  District 56 Total 88,074  District 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County Unincorporated 1,777 Garfield County 1,770  Garfield County 1,770  Garfield County 1,770  Garfield County 1,770  Carbonate 0,770 Catherine 235 Catherine 235 Catherine 235 Catherine 235 Catherine 235 Catherine 322 Glenwood Springs 9,974	2,536  252 56 954 30 16 100 7  1,415  158 2 6 34 325 525  11,528 13.09%	17,553  1,991 127 2,226 538 156 558 88  5,684  1,615 200 147 757 1,729  4,448  76,546 86.91%
Kit Carson County Unincorporated 2,243 Bethune 183 Burlington 3,180 Flagler 568 Seibert 172 Stratton 658 Vona 95  Kit Carson County 7,099  Lincoln County Unincorporated 1,773 Arriba 202 Genoa 153 Hugo 791 Limon 2,054  Lincoln County 4,973  District 56 Total 88,074  District 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County Unincorporated 1,177  Garfield County 9,770  Garfield County Unincorporated 1,542 Carbondale 6,438 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	252 56 954 30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	1,991 127 2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Unincorporated	56 954 30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	127 2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Unincorporated   2,243   Bethune   183   Burlington   3,180   Flagler   568   Seibert   172   Stratton   658   Vona   95   Seibert   1,773   Stratton   658   Vona   95   Seibert   1,773   Arriba   202   Genoa   153   Hugo   791   Limon   2,054   Carbonate   1,542   Basalt   2,918   2,918   2,918   2,918   4,133   Eagle County   2,770   Garfield County   4,873   Carbonate   6,438   Carbonate   6,438   Catherine   235   Cattle Creek   662   Chacra   332   Glenwood Springs   9,974   1,72   1,72   1,72   1,74   1,74   1,74   1,75	56 954 30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	127 2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Bethune	56 954 30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	127 2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Burlington   3,180   Flagler   568   Seibert   172   Stratton   658   Vona   95	954 30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	2,226 538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Flagler 568 Seibert 172 Stratton 658 Vona 95  Kit Carson County 7,099  Lincoln County Unincorporated 1,773 Arriba 202 Genoa 153 Hugo 791 Limon 2,054  Lincoln County 4,973  District 56 Total 88,074  District 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	30 16 100 7 1,415 158 2 6 34 325 525 11,528 13.09%	538 156 558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Seibert   172	100 7 1,415 158 2 6 34 325 525 11,528 13.09%	558 88 5,684 1,615 200 147 757 1,729 4,448 76,546 86.91%
Vona   95	7 1,415 158 2 6 34 325 525 11,528 13.09%	76,546 86.91%
Lincoln County	1,415  158 2 6 34 325  525  11,528 13.09%	76,546 86.91%
Lincoln County Unincorporated 1,773 Arriba 202 Genoa 153 Hugo 791 Limon 2,054  Limon 2,054  Lincoln County 4,973  District 56 Total 88,074  Pistrict 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County Unincorporated 1,770 El Jebel 4,133  * Eagle County Unincorporated 1,542 Carbonate 0,770 Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	158 2 6 34 325 525 51,528 13.09%	1,615 200 147 757 1,729 4,448 76,546 86.91% 1,013 2,432 342
Unincorporated 1,773	2 6 34 325 525 525 11,528 13.09%	200 147 757 1,729 4,448 76,546 86.91% 1,013 2,432 342
Unincorporated 1,773	2 6 34 325 525 525 11,528 13.09%	200 147 757 1,729 4,448 76,546 86.91% 1,013 2,432 342
Genoa Hugo 791	6 34 325 525 11,528 13.09%	147 757 1,729 4,448 76,546 86.91% 1,013 2,432 342
Hugo	34 325 525 11,528 13.09%	757 1,729 4,448 76,546 86.91% 1,013 2,432 342
Limon 2,054  Lincoln County 4,973  District 56 Total 88,074  Pistrict 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondel 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	325 525 11,528 13.09%	1,729 4,448 76,546 86.91% 1,013 2,432 342
District 56 Total   88,074	525 11,528 13.09% 529 486	4,448 76,546 86.91% 1,013 2,432 342
District 56 Total 88,074  District 57  * Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	11,528 13.09% 529 486	76,546 86.91% 1,013 2,432 342
* Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	13.09% 529 486	86.91% 1,013 2,432 342
* Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	13.09% 529 486	86.91% 1,013 2,432 342
* Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	486	2,432 342
* Eagle County Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	486	2,432 342
Unincorporated 1,542 Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	486	2,432 342
Basalt 2,918 * Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974		2,432 342
* Dotsero 1,177 El Jebel 4,133  * Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	835	
* Eagle County 9,770  Garfield County Unincorporated 17,813 Battlement Mesa 5,445 Carbonate 0 Carbondale 6,438 Catherine 235 Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	000	
Garfield County         Unincorporated       17,813         Battlement Mesa       5,445         Carbonate       0         Carbondale       6,438         Catherine       235         Cattle Creek       662         Chacra       332         Glenwood Springs       9,974	1,736	2,397
Unincorporated       17,813         Battlement Mesa       5,445         Carbonate       0         Carbondale       6,438         Catherine       235         Cattle Creek       662         Chacra       332         Glenwood Springs       9,974	3,586	6,184
Unincorporated       17,813         Battlement Mesa       5,445         Carbonate       0         Carbondale       6,438         Catherine       235         Cattle Creek       662         Chacra       332         Glenwood Springs       9,974		
Battlement Mesa       5,445         Carbonate       0         Carbondale       6,438         Catherine       235         Cattle Creek       662         Chacra       332         Glenwood Springs       9,974	4,690	13,123
Carbonate       0         Carbondale       6,438         Catherine       235         Cattle Creek       662         Chacra       332         Glenwood Springs       9,974	1,405	4,040
Catherine         235           Cattle Creek         662           Chacra         332           Glenwood Springs         9,974	0	,
Cattle Creek 662 Chacra 332 Glenwood Springs 9,974	1,968	4,470
Chacra 332 Glenwood Springs 9,974	20	215
Glenwood Springs 9,974	401	261
	56	276
	3,539	6,435
Mulford 259	24	235
New Castle 4,931	1,459	3,472
No Name 118	18	100
Parachute 1,397	330	1,067
Rifle       10,452         Silt       3,538	4,251 1,375	6,201 2,163
Garfield County 61,594	19,536	42,058
	13,330	42,000
Pitkin County	074	
Unincorporated 5,769	651	5,118
Aspen 7,007	767	6,240
Basalt 1,067	177	890
Norrie 7	0	7
Redstone 127 Snowmass Village 3,096	9 261	118 2,835
Woody Creek 292	201	2,635 264
Pitkin County 17,365	28	15,472

District 58   Unincorporated   5,871   413   5,458   375   1468   375   1468   375   1468   376   111   765   1468   38   140   1468   1688   38   140   1468   1688   1468   1688   1468   1468   1688   1468   1688   1	District 57 Total	88,729	25,015 28.19%	63,714 71.81%
* Delta County Unincorporated Carwford 403 28 375 Hotchkiss 876 1111 768 Lazear 168 28 140 Paonia 1,448 102 1,346  * Delta County 8,766 682 8,084  * Dolores County Unincorporated 1,404 94 1,310 Dove Creek 637 50 57 Rico 288 33 255  * Dolores County Unincorporated 7,524 475 7,049 Crested Butte 1,639 79 1,560 Gunnison 6,665 988 5,577 Marble 133 15 188 Mount Crested Butte 941 49 882 Pitkin 72 0 72 Somerset 55 1 54  Gunnison County Unincorporated 1,554 476 1,544  Crested Butte 1,639 79 1,560 Gunnison 6,665 988 5,577 Marble 133 15 188 Mount Crested Butte 941 49 882 Pitkin 72 0 72 Somerset 55 1 54  Gunnison County Unincorporated 310 10 300 Cathedral 155 0 15 Cathedral 15 15 Cathedr	District 58			
Unincorporated 5,881 413 5,458 Crawford 403 28 375 Hotchkiss 876 111 765 Lazear 168 28 140 Paonia 1,445 102 1,346 Paonia 1,445 102 1,347 Paonia 1,445 1,347 Paonia 1,445 1,447 Paonia 1,445 1,447 Paonia 1,447 1,447 Pa				
Crawford 403 28 375 Hotchkiss 876 1111 765 Lazear 168 28 140 Paonia 1.448 102 1.346  *Delta County 8.766 682 8.084  Dolores County Unincorporated 1.404 94 1.310 Dove Creek 637 50 587 Rico 288 33 255  Dolores County Unincorporated 7.524 475 7.049 Crested Butte 1.639 79 1.560 Gunnison 6.566 988 5.577 Marbie 133 15 118 Mount Crested Butte 941 49 882 Pitkin 72 0 72 Somerset 55 1 64  Gunnison County Unincorporated 310 10 300 Cathedral 15 0 15 Cathedral 1		5.871	413	5.458
Hotchkiss 876 111 765 Lazear 168 28 140 Paonia 1,448 102 1,346 Paonia 1,448 102 1,346  * Delta County 8,766 682 8,084  Dolores County Unincorporated 1,404 94 1,310 Dove Creek 637 50 587 Rico 288 33 255  Dolores County Unincorporated 7,524 475 7,049 Crested Butte 1,339 79 1,500 Gunnison 0,565 988 5,577 Marthe 194 19 822 Mount Crested But 6 133 19 150 Gunnison 1,566 19 88 5,577 Marthe 194 19 822 Mount Crested But 94 1 49 822 Somerset 55 1 54  Gunnison County 16,929 1,607 15,322  Hinsdale County 16,929 1,607 15,322  Hinsdale County Unincorporated 310 10 300 Cathedral 15 0 15 Lake City 443 17 416 Pelefra 31 3 288  Hinsdale County 789 30 759  * Montezuma County 789 30 759  * Montezuma County 5,273 488 4,566 Lewis 257 22 255  * Montezuma County 4,785 Montrose County Unincorporated 19,148 3,329 15,819 Montrose County 4,785 4,785 Montrose 20,334 4,506 15,828 Naturia 487 29 488 Naturia 487 29 558 Naturia 585 40 558 Naturia 66 6 130 Naturia 585 40 578 Naturia 66 6 130 Naturia 72 25 558				·
Lazear   168   28				
Paonia				
Dolores County   Unincorporated   1,404   94   1,310   Dove Creek   637   50   587   Rico   288   33   255   Dolores County   2,329   177   2,152   Gunsian County   Unincorporated   7,524   475   7,049   Crested Butte   1,839   79   1,580   Gunsian County   Marble   133   15   118   Mount Crested Butte   941   49   818   475   7,049   1,580   1,577   Marble   133   15   118   188   Mount Crested Butte   941   49   818   475   7,049   1,580   1,577   1,532   1,574				1,346
Unincorporated   1,404   94   1,310   265   587   50   587   587   687   50   587   687	* Delta County	8,766	682	8,084
Dove Creek Rico   288   33   255	Dolores County			
Rico   288   33   255	Unincorporated	1,404	94	1,310
Dolores County	Dove Creek	637	50	587
Gunison County	Rico	288	33	255
Unincorporated Crested Butte 1,639 79 1,560 Gunnison 6,565 988 5,577 Marble 133 15 118 Mount Crested Butte 9,41 49 892 97  1,600 72  1,6	Dolores County	2,329	177	2,152
Unincorporated Crested Butte 1,639 79 1,560 Gunnison 6,565 988 5,577 Marble 133 15 118 Mount Crested Butte 9,41 49 892 97  1,600 72  1,6	Gunnison County			
Crested Butte         1,639         79         1,560           Gunnison         6,565         988         5,577           Marble         133         15         118           Mount Crested Butte         941         49         892           Pitkin         72         0         72           Somerset         55         1         54           Gunnison County         16,929         1,607         15,322           Hinsdale County         16,929         1,607         15,322           Hinsdale County         310         10         30           Cathedral         15         0         15           Lake City         433         17         416           Piedra         31         3         28           Hinsdale County         789         30         759           * Montezuma County         789         30         759           * Montezuma County         5,273         488         4,785           Montrose County         5,273         488         4,785           Montrose County         19,148         3,329         15,819           Naturia         487         29		7.524	475	7.049
Gunnison   6,566   988   5,577   Marble   133   15   118   Mount Crested Butte   941   49   892   Pilkin   72   0   72   Someriset   55   1   54   Someriset   55   54   54   Someriset   55   54   54   Someriset   55   54   54   Someriset   55   55   Someriset   55   55   55   55   55   55   55				
Marble Nount Crested Butte Pitkin Prize Pri	Gunnison			
Mount Crested Butte	Marble			
Pitkin   72				
Somerset   55				
Hinsdale County Unincorporated 310 10 300 Cathedral 15 0 15 Lake City 433 17 416 Piedra 31 3 28  Hinsdale County 789 30 759  * Montezuma County Unincorporated 5,016 466 4,550 Lewis 257 22 235  * Montezuma County 5,273 488 4,785  Montrose County Unincorporated 19,148 3,329 15,819 Montrose 20,334 4,506 15,828 Naturita 487 29 458 Nucla 585 40 545 Olathe 2,023 1,145 878 Redvale 173 4 169  Montrose County Unincorporated 173 4 169  Montrose County 42,750 9,053 33,697  Ouray County Unincorporated 2,004 107 1,887 Colona 36 4 32 Logilil Village 617 22 595 Ouray 899 75 824 Portland 136 6 130 Ridgway 1,185 78 1,107				
Unincorporated	Gunnison County	16,929	1,607	15,322
Unincorporated	Hinsdale County			
Cathedral Lake City         433         17         416           Piedra         31         3         28           Hinsdale County         789         30         759           * Montezuma County         *Montezuma County         5,016         466         4,550           Lewis         257         22         235           * Montrose County         5,273         488         4,785           Montrose County         19,148         3,329         15,819           Montrose Montrose         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136		310	10	300
Piedra         31         3         28           Hinsdale County         789         30         759           * Montezuma County           Unincorporated         5,016         466         4,550           Lewis         257         22         235           * Montezuma County         5,273         488         4,785           Montrose County           Unincorporated         19,148         3,329         15,819           Montrose County         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         42,750         9,053         33,697           Ouray County         40         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824 <t< td=""><td>Cathedral</td><td>15</td><td>0</td><td>15</td></t<>	Cathedral	15	0	15
Piedra         31         3         28           Hinsdale County         789         30         759           * Montezuma County           Unincorporated         5,016         466         4,550           Lewis         257         22         235           * Montezuma County         5,273         488         4,785           Montrose County         19,148         3,329         15,819           Montrose Dunty         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         42,750         9,053         33,697           Ouray County         40,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136 <t< td=""><td>Lake City</td><td>433</td><td>17</td><td>416</td></t<>	Lake City	433	17	416
* Montezuma County Unincorporated		31	3	28
Unincorporated Lewis 257 22 235  * Montezuma County 5,273 488 4,785  Montrose County Unincorporated 19,148 3,329 15,819  Montrose 20,334 4,506 15,828  Naturita 487 29 458  Nucla 585 40 545  Olathe 2,023 1,145 878  Redvale 173 4 169  Montrose County 42,750 9,053 33,697  Ouray County Unincorporated 2,004 107 1,897  Colona 36 4 32  Loghill Village 617 22 595  Ouray 899 75 824  Portland 136 6 130  Ridgway 1,185 78 1,107	Hinsdale County	789	30	759
Lewis         257         22         235           * Montrose County         5,273         488         4,785           Montrose County         19,148         3,329         15,819           Montrose         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107	* Montezuma County			
* Montrose County Unincorporated 19,148 3,329 15,819 Montrose 20,334 4,506 15,828 Naturita 487 29 458 Nucla 585 40 545 Olathe 2,023 1,145 878 Redvale 173 4 169  Montrose County 42,750 9,053 33,697  Ouray County Unincorporated 2,004 107 1,897 Colona 36 4 32 Loghill Village 617 22 595 Ouray B99 75 824 Portland 136 6 130 Ridgway 1,185 78 1,107	Unincorporated	5,016	466	4,550
Montrose County Unincorporated 19,148 3,329 15,819 Montrose 20,334 4,506 15,828 Naturita 487 29 458 Nucla 585 40 545 Olathe 2,023 1,145 878 Redvale 173 4 169  Montrose County 42,750 9,053 33,697  Ouray County Unincorporated 2,004 107 1,897 Colona 36 4 32 Loghill Village 617 22 595 Ouray 899 75 824 Portland 136 6 130 Ridgway 1,185 78 1,107	Lewis	257	22	235
Unincorporated         19,148         3,329         15,819           Montrose         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107	* Montezuma County	5,273	488	4,785
Unincorporated         19,148         3,329         15,819           Montrose         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County         Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107	Montrose County			
Montrose         20,334         4,506         15,828           Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County           Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107		19,148	3,329	15,819
Naturita         487         29         458           Nucla         585         40         545           Olathe         2,023         1,145         878           Redvale         173         4         169           Montrose County         42,750         9,053         33,697           Ouray County           Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107	Montrose			
Olathe Redvale       2,023       1,145       878         Redvale       173       4       169         Montrose County       42,750       9,053       33,697         Ouray County         Unincorporated       2,004       107       1,897         Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Naturita			
Redvale       173       4       169         Montrose County       42,750       9,053       33,697         Ouray County         Unincorporated       2,004       107       1,897         Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Nucla	585	40	545
Redvale       173       4       169         Montrose County       42,750       9,053       33,697         Ouray County         Unincorporated       2,004       107       1,897         Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Olathe		1,145	
Ouray County         Unincorporated       2,004       107       1,897         Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Redvale			169
Unincorporated         2,004         107         1,897           Colona         36         4         32           Loghill Village         617         22         595           Ouray         899         75         824           Portland         136         6         130           Ridgway         1,185         78         1,107	Montrose County	42,750	9,053	33,697
Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Ouray County			
Colona       36       4       32         Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Unincorporated	2,004	107	1,897
Loghill Village       617       22       595         Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Colona			
Ouray       899       75       824         Portland       136       6       130         Ridgway       1,185       78       1,107	Loghill Village			
Portland         136         6         130           Ridgway         1,185         78         1,107				
Ridgway 1,185 78 1,107				
Oursy County 4 977 202 4 505	Ridgway			
Ouray County 4,677 292 4,505	Ouray County	4,877	292	4,585

	San Miguel County			
	Unincorporated	3,070	181	2,889
	Mountain Village	1,264	223	1,041
	Norwood	538	108	430
	Ophir	197	13	184
	Placerville	362	17	345
	Sawpit	38	0	38
	Telluride	2,608	341	2,267
	San Miguel County	8,077	883	7,194
	District 58 Total	89,790	13,212 14.71%	76,578 85.29%
<b></b>				
District 59				
	Archuleta County	44.400	4.500	0.000
	Unincorporated	11,492	1,560	9,932
	Arboles	311 1 577	77 526	234 1,051
	Pagosa Springs	1,577		
	Archuleta County	13,380	2,163	11,217
	La Plata County			
	Unincorporated	32,694	3,818	28,876
	Bayfield	2,841	464	2,377
	Durango	19,112	2,316	16,796
	Ignacio	856	378	478
	Marvel	68	23	45
	Southern Ute	158	27	131
	La Plata County	55,729	7,026	48,703
	* Montezuma County			
	Unincorporated	8,628	839	7,789
	Cortez	8,797	1,489	7,308
	Dolores	888	91	797
	Mancos	1,199	182	1,017
	Towaoc	1,126	31	1,095
	* Montezuma County	20,638	2,632	18,006
	San Juan County			
	Unincorporated	83	9	74
	Silverton	622	81	541
	San Juan County	705	90	615
	Can Cain County	700	30	010
	District 59 Total	90,452	11,911	78,541
		, -	13.17%	86.83%
District 60				
<del>-</del>	* Chaffee County			
	Unincorporated	1,212	80	1,132
	Smeltertown	89	14	75
-	* Chaffee County	1,301	94	1,207
	Custer County			
	Unincorporated	3,661	124	3,537
	Silver Cliff	609	24	585
	Westcliffe	435	30	405
	Custer County	4,705	178	4,527
		, . <del></del>	-	.,

	Frament County			
	Fremont County Unincorporated	11,127	1,331	9,796
	Brookside	236	18	218
	Cañon City	16,449	1,714	14,735
	Coal Creek	364	20	344
	Coaldale	343	19	324
	Cotopaxi	44	1	43
	Florence	3,833	531	3,302
	Howard	852	57	795
	Lincoln Park	3,946	311	3,635
	Park Center	2,960	325	2,635
	Penrose	3,693	350	3,343
	Rockvale	512	55	457
	Williamsburg	737	72	665
	Fremont County	45,096	4,804	40,292
	* Pueblo County			
	Unincorporated	157	42	115
	* Pueblo West	11,242	2,344	8,898
	* Pueblo County	11,399	2,386	9,013
	·	. 1,000	_,000	0,310
	* Teller County	4.4.700	055	40.704
	Unincorporated	14,739	955	13,784
	Cripple Creek	1,166	87	1,079
	Divide	143	6	137
	Florissant Goldfield	128	8	120
		63	7	56
	Midland	182	16	166
	Victor Woodland Park	381	9 627	372
	Woodiand Fark	7,927	027	7,300
	* Teller County	24,729	1,715	23,014
	District 60 Total	87,230	9,177	78,053
		95.84%	10.08%	85.76%
District 61				
	* Arapahoe County			
	Unincorporated	20,663	2,568	18,095
	* Aurora	36,359	4,476	31,883
	* Centennial	30,207	3,783	26,424
	* Arapahoe County	87,229	10,827	76,402
	* Douglas County			
	Unincorporated	529	29	500
	Aurora	2,507	29	2,303
	* Douglas County	3,036	233	2,803
	Douglas County	3,036	233	2,003
	District 61 Total	90,265	11,060	79,205
			12.25%	87.75%
District 62				
	Alamosa County			
	Unincorporated	5,050	1,706	3,344
	Alamosa	9,877	5,260	4,617
	Alamosa East	1,463	769	694
	Hooper	81	22	59
	Alamosa County	16,471	7,757	8,714

Conejos County	a <b>-</b> -aa		0.400
Unincorporated	3,786	1,654	2,132
Antonito	649	564	85
Capulin	136	116	20
Conejos	46	32	14
La Jara	737	457	280
Manassa	951	459	492
Romeo	305	220	85
Sanford	880	297	583
Conejos County	7,490	3,799	3,691
Costilla County			
Unincorporated	2,066	902	1,164
Blanca	323	228	95
Fort Garland	465	331	134
San Acacio	56	36	20
San Luis	598	495	103
Costilla County	3,508	1,992	1,516
* Huerfano County			
Unincorporated	561	119	442
Gardner	106	44	62
* Huerfano County	667	163	504
Mineral County			
Unincorporated	608	28	580
City of Creede	257	19	238
Mineral County	865	47	818
	000		0.10
* Pueblo County			
Unincorporated	737	149	588
* Pueblo	40,962	24,396	16,566
Salt Creek	515	417	98
* Pueblo County	42,214	24,962	17,252
Rio Grande County			
Unincorporated	4,857	1,169	3,688
Alpine	169	20	149
Center	44	40	4
Del Norte	1,465	711	754
Gerrard	264	22	242
Monte Vista	4,273	2,585	1,688
South Fork	511	90	421
Rio Grande County	11,583	4,637	6,946
Saguache County			
Unincorporated	3,681	504	3,177
Bonanza	17	5	12
Center	1,891	1,699	192
Crestone	141	11	130
Moffat	109	5	104
Saguache	540	177	363
Saguache County	6,379	2,401	3,978
,	•		•
District CO Tests	00.477	4E 7E0	40.440
District 62 Total	89,177	45,758	43,419
		51.31%	48.69%

Unincorporated	6,291	E40	= =0.4
	0,291	510	5,781
Atwood	138	10	128
Crook	133	14	119
Fleming	429	29	400
lliff	246	34	212
NA a visa a	000		004
Merino	282	21	261
Padroni	75	13	62
Peetz	213	15	198
Sterling	11,860	2,262	9,598
3	,	, -	-,
Logan County	19,667	2,908	16,759
Logan County	19,007	2,900	10,739
Morgan County			
	0.540	4.000	0.707
Unincorporated	8,516	1,809	6,707
Blue Sky	65	18	47
Brush	5,361	2,109	3,252
Fort Morgan	11,636	5,609	6,027
Hillrose	313	54	259
Jackson Lake	131	6	125
		6	125
Log Lane Village	921	530	391
Morgan Heights	299	43	256
Orchard	76	13	63
Saddle Ridge	66	3	63
Snyder	136	33	103
Trail Side	157	44	113
Weldona	113	16	97
Wiggins	1,403	323	1,080
	,	- · <del>-</del>	.,200
Morgan County	29,193	10,610	18,583
Morgan County	29,193	10,610	10,303
Phillips County			
Unincorporated	1,106	110	996
Amherst	47	8	39
Haxtun	982	68	914
Haxtuii			
Holyoke	2,352	967	1,385
Paoli	51	6	45
r don	01	ŭ	10
DI III. O	4.500	4.450	0.070
Phillips County	4,538	1,159	3,379
Sedgwick County			
Unincorporated	654	56	598
المام مام مام مام مام مام مام مام مام ما			
Julesburg		215	1,096
	1,311	215	1,096
Ovid			
Ovid	1,311 271	215 59	1,096 212
	1,311	215	1,096
Ovid	1,311 271	215 59	1,096 212
Ovid Sedgwick	1,311 271 172	215 59 33	1,096 212 139
Ovid Sedgwick	1,311 271 172	215 59 33	1,096 212 139
Ovid	1,311 271	215 59	1,096 212
Ovid Sedgwick	1,311 271 172	215 59 33	1,096 212 139
Ovid Sedgwick Sedgwick County	1,311 271 172	215 59 33	1,096 212 139
Ovid Sedgwick Sedgwick County Washington County	1,311 271 172 2,408	215 59 33 363	1,096 212 139 2,045
Ovid Sedgwick Sedgwick County Washington County	1,311 271 172 2,408	215 59 33 363	1,096 212 139 2,045
Ovid Sedgwick Sedgwick County Washington County Unincorporated	1,311 271 172 2,408 2,497	215 59 33 363	1,096 212 139 2,045
Ovid Sedgwick Sedgwick County Washington County Unincorporated	1,311 271 172 2,408 2,497	215 59 33 363	1,096 212 139 2,045
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron	1,311 271 172 2,408 2,497 1,762	215 59 33 363 195 270	1,096 212 139 2,045 2,302 1,492
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron	1,311 271 172 2,408 2,497	215 59 33 363	1,096 212 139 2,045 2,302 1,492
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron Cope	1,311 271 172 2,408 2,497 1,762 53	215 59 33 363 195 270 7	1,096 212 139 2,045 2,302 1,492 46
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron	1,311 271 172 2,408 2,497 1,762	215 59 33 363 195 270	1,096 212 139 2,045 2,302 1,492
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron Cope	1,311 271 172 2,408 2,497 1,762 53	215 59 33 363 195 270 7	1,096 212 139 2,045 2,302 1,492 46
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick Sedgwick County Washington County Unincorporated Akron Cope	1,311 271 172 2,408 2,497 1,762 53	215 59 33 363 195 270 7	1,096 212 139 2,045 2,302 1,492 46
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated	1,311 271 172 2,408 2,497 1,762 53 512 4,824	215 59 33 363 195 270 7 46 518	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault	1,311 271 172 2,408 2,497 1,762 53 512	215 59 33 363 195 270 7 46	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault	1,311 271 172 2,408 2,497 1,762 53 512 4,824	215 59 33 363 363 195 270 7 46 518	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134	215 59 33 363 363 195 270 7 46 518	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134	215 59 33 363 363 195 270 7 46 518	1,096 212 139 2,045 2,302 1,492 46 466 4,306
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157	215 59 33 363 363 195 270 7 46 518 2,108 510 1	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157	215 59 33 363 363 195 270 7 46 518 2,108 510 1	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 133
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439 819
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439 819
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 1,383 133 138 439 819
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)  * Weld County  Yuma County	1,311 271 172  2,408  2,497 1,762 53 512  4,824  12,651 1,893 134 157 506 1,100 110  16,551	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106
Ovid Sedgwick  Sedgwick County  Washington County Unincorporated Akron Cope Otis  Washington County  * Weld County Unincorporated Ault Briggsdale Grover Nunn Pierce Raymer (New Raymer)	1,311 271 172 2,408 2,497 1,762 53 512 4,824 12,651 1,893 134 157 506 1,100 110	215 59 33 363 363 195 270 7 46 518 2,108 510 1 19 67 281 4	1,096 212 139 2,045 2,302 1,492 46 466 4,306 10,543 1,383 133 138 439 819 106

Eaklay	234	80	154
Eckley Idalia	23 <del>4</del> 97	26	154 71
Joes	82	11	71
Kirk	61	6	55
Laird	46	3	43
Vernon	38	4	34
Wray	2,363	652	1,711
Yuma	3,462	1,536	1,926
Yuma County	10,005	2,779	7,226
District 63 Total	87,186	21,327	65,859
		24.46%	75.54%
District 64			
* Larimer County			
Unincorporated	2,481	177	2,304
Berthoud	10,082	1,085	8,997
* Larimer County	12,563	1,262	11,301
Latities County	12,000	1,202	11,301
* Weld County	0.00-	000	
Unincorporated	3,335	338	2,997
Berthoud	261	38	223
* Evans	0	0	0
* Greeley	48,122	13,178	34,944
* Johnstown	12,556	2,157	10,399
Mead	4,783	626	4,157
Milliken	8,392	2,311	6,081
* Weld County	77,449	18,648	58,801
District 64 Total	90,012	19,910	70,102
District 64 Total	90,012	22.12%	77.88%
District 65			
* Larimer County			
Unincorporated	14,946	2,620	12,326
* Johnstown	4,756	741	4,015
Laporte	2,416	246	2,170
Timnath	6,484	538	5,946
Wellington	11,051	1,671	9,380
Windsor	7,721	453	7,268
* Larimer County	47,374	6,269	41,105
* Weld County			
Unincorporated	4,133	460	3,673
Eaton	5,809	967	4,842
* Greeley	0	0	0
Severance	7,684	1,085	6,599
Timnath	5	2	3
Windsor	25,014	2,822	22,192
* Weld County	42,645	5,336	37,309
District 65 Total	90,019	11,605	78,414
Biothiot do Total	23,010	12.89%	87.11%
		12.03/0	01.1170

Source: Colorado Independent Redistricting Commissions Staff.

October 14, 2021



Assigned District Splits
Plan: 2021 Final Approved House Plan
\* indicates split

FIPS	Total Population	Hispanic	Non-Hispanic	Non-Hispanic white	Non-Hispanic black	Non-Hispanic American Indian/ Alaskan Native	Non-Hispanic Asian	Non-Hispanic Hawaiian or Other Pacific Islander	Non-Hispanic some other race	Non-Hispanic two or more minority race
District 1  * Denver County  * Jefferson County	87,969 0	42,515 0	45,454 0	34,863 0	2,325 0	652 0	4,526 0	76 0	413 0	2,599 0
District 1 Total	87,969	42,515 48.3%	45,454 51.7%	34,863 39.6%	2,325 2.6%	652 0.7%	4,526 5.1%	76 0.1%	413 0.5%	2,599 3.0%
District 2  * Denver County	88,172	6,901	81,271	72,427	1,349	200	2,885	46	422	3,942
District 2 Total	88,172	6,901 7.8%	81,271 92.2%	72,427 82.1%	1,349 1.5%	200 0.2%	2,885 3.3%	46 0.1%	422 0.5%	3,942 4.5%
District 3										
* Arapahoe County * Denver County	49,552 37,946	9,968 6,763	39,584 31,183	33,367 22,187	1,468 4,541	335 169	1,784 2,060	45 91	243 254	2,342 1,881
District 3 Total	87,498	16,731 19.1%	70,767 80.9%	55,554 63.5%	6,009 6.9%	504 0.6%	3,844 4.4%	136 0.2%	497 0.6%	4,223 4.8%
District 4  * Denver County	87,718	34,936	52,782	44,350	2,444	661	1,861	65	396	3,005
District 4 Total	87,718	34,936 39.8%	52,782 60.2%	44,350 50.6%	2,444 2.8%	661 0.8%	1,861 2.1%	65 0.1%	396 0.5%	3,005 3.4%
District 5  * Denver County	86,960	28,831	58,129	46,798	4,282	655	2,610	73	504	3,207
District 5 Total	86,960	28,831 33.2%	58,129 66.8%	46,798 53.8%	4,282 4.9%	655 0.8%	2,610 3.0%	73 0.1%	504 0.6%	3,207 3.7%
District 6 * Denver County	87,264	11,990	75,274	58,664	8,224	412	3,279	58	436	4,201
District 6 Total	87,264	11,990 13.7%	75,274 86.3%	58,664 67.2%	8,224 9.4%	412 0.5%	3,279 3.8%	58 0.1%	436 0.5%	4,201 4.8%
District 7  * Denver County	90,537	42,698	47,839	17,787	19,456	322	5,473	873	395	3,533
District 7 Total	90,537	42,698 47.2%	47,839 52.8%	17,787 19.6%	19,456 21.5%	322 0.4%	5,473 6.0%	873 1.0%	395 0.4%	3,533 3.9%

District 8

* Denver County	90,282	16,248	74,034	52,079	13,871	473	2,317	59	500	4,735
District 8 Total	90,282	16,248 18.0%	74,034 82.0%	52,079 57.7%	13,871 15.4%	473 0.5%	2,317 2.6%	59 0.1%	500 0.6%	4,735 5.2%
sistrict 9										
* Arapahoe County * Denver County	30,236 60,242	5,819 9,235	24,417 51,007	15,246 39,715	5,599 5,352	159 239	1,662 2,203	31 54	164 426	1,556 3,018
District 9 Total	90,478	15,054 16.6%	75,424 83.4%	54,961 60.7%	10,951 12.1%	398 0.4%	3,865 4.3%	85 0.1%	590 0.7%	4,574 5.1%
* Boulder County	90,284	10,511	79,773	67,617	1,197	377	6,089	120	511	3,862
District 10 Total	90,284	10,511 11.6%	79,773 88.4%	67,617 74.9%	1,197 1.3%	377 0.4%	6,089 6.7%	120 0.1%	511 0.6%	3,862 4.3%
* Boulder County	88,336	22,746	65,590	57,165	812	414	3,003	59	477	3,660
District 11 Total	88,336	22,746 25.7%	65,590 74.3%	57,165 64.7%	812 0.9%	414 0.5%	3,003 3.4%	59 0.1%	477 0.5%	3,660 4.1%
* Boulder County	86,485	10,037	76,448	66,145	756	203	4,687	42	489	4,126
* Broomfield County	0	0	0	0	0	0	0	0	0	0
District 12 Total	86,485	10,037 11.6%	76,448 88.4%	66,145 76.5%	756 0.9%	203 0.2%	4,687 5.4%	42 0.0%	489 0.6%	4,126 4.8%
vistrict 13										
* Chaffee County Grand County	17,205 15,726	1,403 1,535	15,802 14,191	14,669 13,442	109 59	82 56	125 83	11 17	90 73	716 461
Jackson County	1,381	138	1,243	1,163	0	12	2	2	5	59
Lake County	7,458	2,669	4,789	4,308	31	46	63	8	45	288
Park County	17,402	1,237	16,165	14,912	89	118	99	9	94	844
Summit County	31,087	5,342	25,745	23,802	236	68	407	20	150	1,062
District 13 Total	90,259	12,324 13.7%	77,935 86.3%	72,296 80.1%	524 0.6%	382 0.4%	779 0.9%	67 0.1%	<b>457</b> 0.5%	3,430 3.8%
* El Paso County	90,615	9,497	81,118	67,674	2,546	293	4,611	130	582	5,282
District 14 Total	90,615	9,497 10.5%	81,118 89.5%	67,674 74.7%	2,546 2.8%	293 0.3%	4,611 5.1%	130 0.1%	582 0.6%	5,282 5.8%
istrict 15										
* El Paso County	90,074	17,225	72,849	55,065	5,995	471	3,648	444	646	6,580
District 15 Total	90,074	17,225 19.1%	72,849 80.9%	55,065 61.1%	5,995 6.7%	471 0.5%	3,648 4.1%	444 0.5%	646 0.7%	6,580 7.3%
vistrict 16 * El Paso County	88,844	17,300	71,544	59,135	4,402	598	1,506	166	532	5,205
District 16 Total	88,844	17,300 19.5%	71,544 80.5%	59,135 66.6%	4,402 5.0%	598 0.7%	1,506 1.7%	166 0.2%	532 0.6%	5,205 5.9%

District 17 * El Paso County	88,286	30,540	57,746	37,376	10,570	660	2,496	531	533	5,580
District 17 Total	88,286	30,540 34.6%	57,746 65.4%	37,376 42.3%	10,570 12.0%	660 0.7%	2,496 2.8%	531 0.6%	533 0.6%	5,580 6.3%
District 18  * El Paso County  * Teller County	87,494 24	11,318 1	76,176 23	64,936 20	2,991 0	<b>445</b> 0	2,362 0	188 0	456 0	4,798 3
District 18 Total	87,518	11,319 12.9%	76,199 87.1%	64,956 74.2%	2,991 3.4%	445 0.5%	2,362 2.7%	188 0.2%	456 0.5%	4,801 5.5%
District 19  * Boulder County  * Weld County	25,310 63,944	2,889 12,206	22,421 51,738	19,518 45,977	215 429	46 197	1,357 2,014	8 63	108 277	1,169 2,781
District 19 Total	89,254	15,095 16.9%	74,159 83.1%	65,495 73.4%	644 0.7%	243 0.3%	3,371 3.8%	71 0.1%	385 0.4%	3,950 4.4%
District 20 * El Paso County	88,807	8,863	79,944	69,399	2,239	334	2,100	138	635	5,099
District 20 Total	88,807	8,863 10.0%	79,944 90.0%	69,399 78.1%	2,239 2.5%	334 0.4%	2,100 2.4%	138 0.2%	635 0.7%	5,099 5.7%
District 21 * El Paso County	88,817	19,624	69,193	49,550	8,516	534	2,326	921	635	6,711
District 21 Total	88,817	19,624 22.1%	69,193 77.9%	49,550 55.8%	8,516 9.6%	534 0.6%	2,326 2.6%	921 1.0%	635 0.7%	6,711 7.6%
District 22  * El Paso County	89,747	13,590	76,157	62,897	3,853	426	2,468	215	459	5,839
District 22 Total	89,747	13,590 15.1%	76,157 84.9%	62,897 70.1%	3,853 4.3%	426 0.5%	2,468 2.7%	215 0.2%	459 0.5%	5,839 6.5%
District 23  * Jefferson County	87,524	15,272	72,252	63,694	1,200	528	2,263	104	463	4,000
District 23 Total	87,524	15,272 17.4%	72,252 82.6%	63,694 72.8%	1,200 1.4%	528 0.6%	2,263 2.6%	104 0.1%	463 0.5%	4,000 4.6%
Pistrict 24  * Adams County  * Jefferson County	2,896 87,954	908 13,335	1,988 74,619	1,602 67,205	31 829	22 423	219 1,862	0 55	9 376	105 3,869
District 24 Total	90,850	14,243 15.7%	76,607 84.3%	68,807 75.7%	860 0.9%	445 0.5%	2,081 2.3%	55 0.1%	385 0.4%	3,974 4.4%
District 25  * Jefferson County	88,920	6,587	82,333	75,581	410	272	1,550	46	424	4,050
District 25 Total	88,920	6,587 7.4%	82,333 92.6%	75,581 85.0%	410 0.5%	272 0.3%	1,550 1.7%	46 0.1%	424 0.5%	4,050 4.6%
District 26 * Eagle County Moffat County	45,998 13,348	13,296 2,129	32,702 11,219	30,486 10,362	270 79	96 98	602 52	16 2	149 60	1,083 566

Rio Blanco County Routt County	6,536 24,843	623 2,202	5,913 22,641	5,515 21,253	29 154	51 67	22 169	2 35	29 92	265 871
District 26 Total	90,725	18,250 20.1%	72,475 79.9%	67,616 74.5%	532 0.6%	312 0.3%	845 0.9%	55 0.1%	330 0.4%	2,785 3.1%
District 27  * Jefferson County	87,902	9,916	77,986	70,137	783	294	2,591	33	349	3,799
District 27 Total	87,902	9,916 11.3%	77,986 88.7%	70,137 79.8%	783 0.9%	294 0.3%	2,591 2.9%	33 0.0%	349 0.4%	3,799 4.3%
District 28  * Jefferson County	86,975	12,244	74,731	65,368	1,001	439	3,651	59	435	3,778
District 28 Total	86,975	12,244 14.1%	74,731 85.9%	65,368 75.2%	1,001 1.2%	439 0.5%	3,651 4.2%	59 0.1%	435 0.5%	3,778 4.3%
District 29  * Adams County  * Jefferson County	46,326 42,254	8,922 6,189	37,404 36,065	31,399 30,919	732 522	220 174	2,749 2,113	39 22	189 192	2,076 2,123
District 29 Total	88,580	15,111 17.1%	73,469 82.9%	62,318 70.4%	1,254 1.4%	394 0.4%	4,862 5.5%	61 0.1%	381 0.4%	4,199 4.7%
District 30  * Jefferson County	86,793	26,242	60,551	50,884	1,790	756	3,170	141	491	3,319
District 30 Total	86,793	26,242 30.2%	60,551 69.8%	50,884 58.6%	1,790 2.1%	756 0.9%	3,170 3.7%	141 0.2%	491 0.6%	3,319 3.8%
District 31  * Adams County	87,096	41,088	46,008	36,064	1,786	536	4,190	77	400	2,955
District 31 Total	87,096	41,088 47.2%	46,008 52.8%	36,064 41.4%	1,786 2.1%	536 0.6%	4,190 4.8%	77 0.1%	400 0.5%	2,955 3.4%
District 32  * Adams County	88,894	46,943	41,951	32,999	2,860	491	2,234	99	389	2,879
District 32 Total	88,894	46,943 52.8%	41,951 47.2%	32,999 37.1%	2,860 3.2%	491 0.6%	2,234 2.5%	99 0.1%	389 0.4%	2,879 3.2%
District 33  * Adams County	13,465	2,341	11,124	9,249	195	37	1,016	3	80	544
* Broomfield County  * Weld County	<b>74,173</b> 0	9,935 0	64,238 0	53,943 0	928 0	201 0	5,097 0	80 0	351 0	3,638 0
District 33 Total	87,638	12,276 14.0%	75,362 86.0%	63,192 72.1%	1,123 1.3%	238 0.3%	6,113 7.0%	83 0.1%	431 0.5%	4,182 4.8%
District 34  * Adams County	87,400	25,103	62,297	50,877	1,542	500	4,813	107	377	4,081
District 34 Total	87,400	25,103 28.7%	62,297 71.3%	50,877 58.2%	1,542 1.8%	500 0.6%	4,813 5.5%	107 0.1%	377 0.4%	4,081 4.7%
District 35  * Adams County * Jefferson County	85,846 4,043	45,791 951	40,055 3,092	31,724 2,575	1,282 78	584 22	3,467 180	96 0	374 22	2,528 215

District 35 Total	89,889	46,742 52.0%	43,147 48.0%	34,299 38.2%	1,360 1.5%	606 0.7%	3,647 4.1%	96 0.1%	396 0.4%	2,743 3.1%
District 36  * Adams County	48,403	25,016	23,387	11,181	7,096	219	2,894	228	265	1,504
* Arapahoe County	48,403 39,436	25,016 11,060	28,387	16,998	7,096 5,988	219	2,894	160	265 190	2,206
Arapanoe County	39,430	11,000	20,370	10,990	5,900	236	2,590	100	190	2,200
District 36 Total	87,839	36,076 41.1%	51,763 58.9%	28,179 32.1%	13,084 14.9%	457 0.5%	5,490 6.3%	388 0.4%	455 0.5%	3,710 4.2%
District 37										
* Arapahoe County	87,811	7,889	79,922	64,119	2,708	205	8,233	68	458	4,131
District 37 Total	87,811	7,889 9.0%	79,922 91.0%	64,119 73.0%	2,708 3.1%	205 0.2%	8,233 9.4%	68 0.1%	458 0.5%	4,131 4.7%
District 38										
* Arapahoe County * Jefferson County	77,216 11,611	9,022 1,130	68,194 10,481	61,358 9,485	935 94	293 32	1,738 329	57 4	345 64	3,468 473
District 38 Total	88,827	10,152 11.4%	78,675 88.6%	70,843 79.8%	1,029 1.2%	325 0.4%	2,067 2.3%	61 0.1%	409 0.5%	3,941 4.4%
District 39  * Douglas County	87,168	7,149	80,019	68,427	1,106	265	5,710	58	352	4,101
District 39 Total	87,168	7,149 8.2%	80,019 91.8%	68,427 78.5%	1,106 1.3%	265 0.3%	5,710 6.6%	58 0.1%	352 0.4%	4,101 4.7%
District 40										
* Arapahoe County	90,235	17,724	72,511	48,060	10,864	355	6,850	179	634	5,569
District 40 Total	90,235	17,724 19.6%	72,511 80.4%	48,060 53.3%	10,864 12.0%	355 0.4%	6,850 7.6%	179 0.2%	634 0.7%	5,569 6.2%
District 41										
* Arapahoe County	89,053	21,852	67,201	40,403	15,925	358	5,205	281	490	4,539
District 41 Total	89,053	21,852 24.5%	67,201 75.5%	40,403 45.4%	15,925 17.9%	358 0.4%	5,205 5.8%	281 0.3%	490 0.6%	4,539 5.1%
District 42										
* Arapahoe County	90,864	39,721	51,143	23,063	18,399	448	4,397	691	546	3,599
District 42 Total	90,864	39,721 43.7%	51,143 56.3%	23,063 25.4%	18,399 20.2%	448 0.5%	4,397 4.8%	691 0.8%	546 0.6%	3,599 4.0%
District 43  * Douglas County	88,172	7,994	80,178	68,578	972	216	5,669	54	401	4,288
District 43 Total	88,172	7,994 9.1%	80,178 90.9%	68,578 77.8%	972 1.1%	216 0.2%	5,669 6.4%	54 0.1%	401 0.5%	4,288 4.9%
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District 44

* Douglas County	90,502	9,071	81,431	68,210	1,531	229	6,414	87	369	4,591
District 44 Total	90,502	9,071 10.0%	81,431 90.0%	68,210 75.4%	1,531 1.7%	229 0.3%	6,414 7.1%	87 0.1%	369 0.4%	4,591 5.1%
District 45										
* Douglas County	89,291	9,687	79,604	71,249	1,137	253	1,863	91	421	4,590
District 45 Total	89,291	9,687 10.8%	79,604 89.2%	71,249 79.8%	1,137 1.3%	253 0.3%	1,863 2.1%	91 0.1%	421 0.5%	4,590 5.1%
District 46										
* Pueblo County	90,688	36,164	54,524	47,635	1,664	628	952	80	540	3,025
District 46 Total	90,688	36,164 39.9%	54,524 60.1%	47,635 52.5%	1,664 1.8%	628 0.7%	952 1.0%	80 0.1%	540 0.6%	3,025 3.3%
District 47										
Baca County	3,513	346	3,167	2,923	19	38	8	0	37	142
Bent County	4,520	1,353	3,167	2,825	78	47 69	26	0 2	8	183
Crowley County  * Huerfano County	3,603 6,173	872 1,975	2,731 4,198	2,385 3,782	101 54	69 72	30 23	0	5 45	139 222
Kiowa County	1,448	1,975	1,344	1,249	3	0	9	1	1	81
Las Animas County	14,201	5,507	8,694	7,816	120	135	101	12	87	423
Otero County	18,766	7,741	11,025	10,042	135	119	98	28	103	500
Prowers County	12,047	4,703	7,344	6,707	84	121	31	6	50	345
* Pueblo County	23,821	6,631	17,190	15,211	306	158	263	15	141	1,096
District 47 Total	88,092	29,232 33.2%	58,860 66.8%	52,940 60.1%	900 1.0%	759 0.9%	589 0.7%	64 0.1%	477 0.5%	3,131 3.6%
District 48										
* Adams County	47,583	18,585	28,998	25,164	597	229	941	78	247	1,742
* Weld County	41,278	16,321	24,957	22,686	276	198	287	19	184	1,307
District 48 Total	88,861	34,906 39.3%	53,955 60.7%	47,850 53.8%	873 1.0%	427 0.5%	1,228 1.4%	97 0.1%	431 0.5%	3,049 3.4%
District 49										
* Boulder County	40,705	2,101	38,604	34,967	191	78	1,164	12	235	1,957
Clear Creek County	9,418	648	8,770	8,169	49	42	82	7	38	383
Gilpin County	5,811	381	5,430	4,954	32	36	85	4	37	282
* Larimer County	30,606	2,335	28,271	26,378	123	105	307	15	140	1,203
District 49 Total	86,540	5,465 6.3%	81,075 93.7%	74,468 86.1%	395 0.5%	261 0.3%	1,638 1.9%	38 0.0%	450 0.5%	3,825 4.4%
District 50  * Weld County	87,914	43,383	44,531	36,740	2,557	464	1,827	128	320	2,495
District 50 Total	87,914	43,383 49.3%	44,531 50.7%	36,740 41.8%	2,557 2.9%	464 0.5%	1,827 2.1%	128 0.1%	320 0.4%	2,495 2.8%
District 51 * Larimer County	87,862	11,366	76,496	70,111	647	414	967	67	459	3,831
District 51 Total	87,862	11,366 12.9%	76,496 87.1%	70,111 79.8%	647 0.7%	414 0.5%	967 1.1%	67 0.1%	459 0.5%	3,831 4.4%
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District 52

* Larimer County	90,787	10,420	80,367	70,799	1,001	375	3,407	52	435	4,298
District 52 Total	90,787	10,420 11.5%	80,367 88.5%	70,799 78.0%	1,001 1.1%	375 0.4%	3,407 3.8%	52 0.1%	435 0.5%	4,298 4.7%
District 53 * Larimer County	90,449	13,138	77,311	67,822	1,375	423	2,755	91	465	4,380
District 53 Total	90,449	13,138 14.5%	77,311 85.5%	67,822 75.0%	1,375 1.5%	423 0.5%	2,755 3.0%	91 0.1%	465 0.5%	4,380 4.8%
District 54										
* Delta County * Mesa County	22,077 68,759	3,502 10,352	18,575 58,407	17,224 53,676	65 378	89 420	199 443	7 68	120 344	871 3,078
District 54 Total	90,836	13,854 15.3%	76,982 84.7%	70,900 78.1%	443 0.5%	509 0.6%	642 0.7%	75 0.1%	464 0.5%	3,949 4.3%
District 55										
* Mesa County	87,599	13,052	74,547	67,558	661	536	1,172	120	545	3,955
District 55 Total	87,599	13,052	74,547	67,558	661	536	1,172	120	545	3,955
		14.9%	85.1%	77.1%	0.8%	0.6%	1.3%	0.1%	0.6%	4.5%
District 56										
* Adams County	13,262	2,630	10,632	9,681	134	83	83	26	39	586
* Arapahoe County	14,810	2,149	12,661	10,565	485	57	711	15	72	756
Cheyenne County	1,754	206	1,548	1,475	2	5	3	0	3	60
Elbert County	26,087	2,067	24,020	22,207	123	119	184	21	123	1,243
* El Paso County Kit Carson County	20,089 7,099	2,536 1,415	17,553 5,684	15,649 5,311	207 22	127 24	152 30	17 5	121 32	1,280 260
Lincoln County	4,973	525	4,448	4,056	89	32	33	22	21	195
District 56 Total	88,074	11,528	76,546	68,944	1,062	447	1,196	106	411	4,380
District 30 Total	00,074	13.1%	86.9%	78.3%	1.2%	0.5%	1.4%	0.1%	0.5%	5.0%
District 57										
* Eagle County	9,770	3,586	6,184	5,728	27	22	110	11	38	248
Garfield County	61,594	19,536	42,058	38,600	254	298	395	34	309	2,168
Pitkin County	17,365	1,893	15,472	14,439	94	36	280	7	82	534
District 57 Total	88,729	25,015 28.2%	63,714 71.8%	58,767 66.2%	375 0.4%	356 0.4%	785 0.9%	52 0.1%	429 0.5%	2,950 3.3%
District 58										
* Delta County	8,766	682	8,084	7,534	15	24	27	2	72	410
Dolores County	2,329	177	2,152	1,952	18	36	6	4	5	131
Gunnison County	16,929	1,607	15,322	14,261	78	70	121	7	111	674
Hinsdale County	789	30	759	694	8	6	2	1	6	42
* Montezuma			,						= :	_
County	5,273 42,750	488 9,053	4,785 33,697	4,370 31,168	13	118 265	19 334	1 26	24 183	240
Montrose County Ouray County	42,750 4,877	9,053 292	33,697 4,585	31,168 4,311	159 16	265 16	334 28	26 2	183 24	1,562 188
San Miguel County	8,077	883	7,194	6,761	20	47	55 55	0	44	267
District 58 Total	89,790	13,212 14.7%	76,578 85.3%	71,051 79.1%	327 0.4%	582 0.6%	592 0.7%	43 0.0%	469 0.5%	3,514 3.9%
District 59	42.000	0.400	44.047	40.400	40	470	404	•	77	000
Archuleta County La Plata County	13,380 55,729	2,163 7,026	11,217 48,703	10,189 42,452	42 185	172 2,819	101 381	6 33	77 377	630 2,456
La Flata County	33,123	7,020	40,700	72,702	100	2,010	301	33	311	2,430

* Montezuma County San Juan County	20,638 705	2,632 90	18,006 615	13,694 575	60 1	3,069 6	109 2	23 0	83 1	968 30
District 59 Total	90,452	11,911 13.2%	78,541 86.8%	66,910 74.0%	288 0.3%	6,066 6.7%	593 0.7%	62 0.1%	538 0.6%	4,084 4.5%
District 60										
* Chaffee County	1,301	94	1,207	1,136	2	5	1	0	10	53
Custer County	4,705	178	4,527	4,213	10	42	22	0	45	195
Fremont County	45,096	4,804	40,292	35,958	1,143	559	287	30	234	2,081
* Pueblo County  * Teller County	11,399	2,386	9,013	8,194	83 133	50 124	166 201	8 12	37 148	475
relier County	24,729	1,715	23,014	21,037	133	124	201	12	140	1,359
District 60 Total	87,230	9,177 10.5%	78,053 89.5%	70,538 80.9%	1,371 1.6%	780 0.9%	677 0.8%	50 0.1%	474 0.5%	4,163 4.8%
District 61										
* Arapahoe County	87,229	10,827	76,402	55,365	6,290	243	8,706	107	407	5,284
* Douglas County	3,036	233	2,803	2,447	58	10	158	0	8	122
-										
District 61 Total	90,265	11,060 12.3%	79,205 87.7%	57,812 64.0%	6,348 7.0%	253 0.3%	8,864 9.8%	107 0.1%	415 0.5%	5,406 6.0%
		12.3%	67.7%	04.0%	7.0%	0.3%	9.0%	0.1%	0.5%	6.0%
District 62										
Alamosa County	16,471	7,757	8,714	7,518	216	220	143	19	104	494
Conejos County	7,490	3,799	3,691	3,474	14	44	21	2	24	112
Costilla County	3,508 667	1,992	1,516 504	1,238 458	34	34 7	55	0 0	13	142 34
* Huerfano County Mineral County	865	163 47	818	456 775	0	4	1 3	0	4 0	36
* Pueblo County	42,214	24,962	17,252	14,286	868	429	175	35	226	1,233
Rio Grande County	11,583	4,637	6,946	6,275	51	139	36	4	56	385
Saguache County	6,379	2,401	3,978	3,582	19	81	63	2	42	189
District 62 Total	89,177	45,758 51.3%	43,419 48.7%	37,606 42.2%	1,202 1.3%	958 1.1%	497 0.6%	62 0.1%	469 0.5%	2,625 2.9%
District 63										
Logan County	19,667	2,908	16,759	15,560	356	97	99	17	52	578
Morgan County	29,193	10,610	18,583	16,579	937	113	153	11	77	713
Phillips County	4,538	1,159	3,379	3,250	10	12	22	1	5	79
Sedgwick County	2,408	363	2,045	1,936	4	11	12	0	8	74
Washington County	4,824	518	4,306	4,062	24	8	15	10	20	167
* Weld County	16,551	2,990	13,561	12,581	24	70	52	12	65	757
Yuma County	10,005	2,779	7,226	6,957	21	16	26	2	27	177
District 63 Total	87,186	21,327 24.5%	65,859 75.5%	60,925 69.9%	1,376 1.6%	327 0.4%	379 0.4%	53 0.1%	254 0.3%	2,545 2.9%
District 64										
* Larimer County	12,563	1,262	11,301	10,465	35	52	136	11	78	524
* Weld County	77,449	18,648	58,801	53,519	679	304	1,041	49	323	2,886
District 64 Total	90,012	19,910 22.1%	70,102 77.9%	63,984 71.1%	714 0.8%	356 0.4%	1,177 1.3%	60 0.1%	401 0.4%	3,410 3.8%
District 65										
* Larimer County	47,374	6,269	41,105	37,393	304	143	799 470	29	242	2,195
* Weld County	42,645	5,336	37,309	34,690	215	125	470	32	136	1,641

District 65 Total 90,019 11,605 78,414 72,083 519 268 1,269 61 378 3,836 12.9% 87.1% 80.1% 0.6% 0.3% 1.4% 0.1% 0.4% 4.3%

Source: Colorado Independent Redistricting Commissions Staff. October 14, 2021 In re Colorado Independent Legislative Redistricting Commission

### Exhibit 12

Reports Regarding Compactness Analysis



#### **District Compactness**

Plan: 2021 Final Approved House Plan

District	Polygon Area (sq. mi)	Perimeter (mi)	Reock	Polsby Popper	Outliers - District Information	Drive Time
1	16.31	42.02	0.31	0.12	District 1 includes a portion of the City and County of Denver. It includes the whole Bear Valley, College View – South Platte, Fort Logan, Harvey Park, Harvey Park South, Mar Lee, Marston, Ruby Hill, and Overland Denver neighborhoods, and a portion of the Westwood Denver neighborhood.	
2	12.53	17.74	0.46	0.50		
					District 3 includes whole Cherry Hills Village, Englewood, and Sheridan; a portion of Aurora; and a portion of the City and County of Denver. The portion of Denver includes the whole Hampden South, Kennedy, and Southmoor Park Denver neighborhoods, and a portion of the Hampden Denver	
3	21.53	36.34	0.26	0.20	neighborhood.	
5	11.61 15.35	19.20 25.73	0.33	0.40 0.29		
6	9.03	20.99	0.21	0.26	District 6 includes a portion of the City and County of Denver. It includes the whole Cheesman Park, Congress Park, Hale, Montclair, North Capitol Hill, and Windsor Denver neighborhoods, and portions of the Capitol Hill, East Colfax, and Lowry Field Denver neighborhoods.	
7	57.78	59.30	0.23	0.21	District 7 includes a portion of the City and County of Denver. It includes the whole Denver International Airport, Gateway – Green Valley Ranch, and Montbello Denver neighborhoods, and a portion of the Central Park Denver neighborhood.	
8	17.45	24.76	0.30	0.36		
9	12.97	18.51	0.54	0.48		
10	25.49	41.57	0.40	0.19		
11	29.21 79.15	26.90 83.34	0.59	0.51	District 12 includes whole Lafayette, Louisville, and Niwot, and the whole population of Superior.	
13	7620.20	659.15	0.29	0.22	District 13 includes whole Grand County, Jackson County, Lake County, Park County, and Summit County; and whole Buena Vista, Poncha Springs, and Salida in Chaffee County.	The drive time from Salida to Silverthorne to Walden is approximately 3 hours and 31 minutes. Salida is the largest population in the district.

<u>14</u>	42.75 87.98	56.56 68.53	0.29 0.39	0.17 0.24	District 14 includes a portion of Colorado Springs. It includes whole Briargate West, Cordera, Flying Horse Ranch, Gatehouse, Interquest, Kettle Creek, Mountain Shadows, Peregrine, Pine Creek, Pinecliff, Northgate, Rockrimmon, Summerfield, The Farm, and Wolf Ranch Colorado Springs neighborhoods, and portions of Falcon Estates, Garden of the Gods/Pleasant Valley, Old Colorado City, Pulpit Rock, and Woodmen Heights/Dublin North Colorado Springs neighborhoods.	
16	24.64	26.59	0.51	0.44		
17	34.92	36.82	0.48	0.32		
18	182.68	101.15	0.23	0.22	District 18 includes whole Green Mountain Falls and Manitou Springs, and a portion of Colorado Springs. The portion of Colorado Springs includes the whole Broadmoor Bluffs, Broadmoor Hills, Broadmoor Oaks, Cedar Heights, Gold Hill Mesa, Holland Park, Ivywild, Kissing Camels, Lower Skyway, Mesa, Mesa Springs, Midland, Old Broadmoor, Upper Skyway, and Westside Colorado Springs neighborhoods, and portions of the Downtown, Garden of the Gods/Pleasant Valley, Old Colorado City, Middle Shooks Run, Quail Lake, and Stratton Meadows Colorado Springs neighborhoods.	
19	147.01	73.78	0.60	0.34		
20	312.69	115.74	0.46	0.29		
21 22	204.48 17.13	79.18	0.52 0.46	0.41 0.51		
23	29.04	20.45 43.55	0.38	0.19		
24	25.96	40.99	0.35	0.19		
25	469.18	127.90	0.35	0.36		
26 27	11866.19 181.88	641.37 89.56	0.43 0.52	0.36 0.28		The drive time from Dinosaur to Steamboat Springs to Vail is approximately 4 hours and 2 minutes. Steamboat Springs is the largest population in the district.
					District 28 includes a portion	
28	28.93	54.01	0.31	0.12	of Lakewood.	
29 30	33.37 17.75	47.94 21.80	0.31 0.50	0.18 0.47		
31	20.66	39.26	0.38	0.47		
32	90.43	75.50	0.25	0.20	District 32 includes whole Commerce City.	
33 34 35	50.25 17.78 15.84	73.86 30.82 25.36	0.24 0.30 0.43	0.12 0.24 0.31	District 33 includes the whole population of Broomfield, and a portion of Thornton.	
36	153.59	85.28	0.41	0.27		

					District 37 includes whole	
					Foxfield and Greenwood	
	0.4.50	44.40	2.24	0.05	Village, and portions of	
37	34.53	41.42	0.24	0.25	Aurora and Centennial.	
38	25.38	27.50	0.49	0.42		
39	676.15	193.36	0.49	0.23		
40	20.80	31.21	0.36	0.27		
41	13.58	16.71	0.51	0.61		
42	12.97	16.72	0.49	0.58		
43	21.01	21.99	0.37	0.55		
44	62.09	45.89	0.46	0.37		
45	79.51	68.36	0.39	0.21		
46	676.68	207.75	0.36	0.20		
						The drive time from Pueblo West to Lamar to Campo is approximately 3 hours and 33 minutes. Pueblo West is the
47	16772.46	663.62	0.52	0.48		largest population in the district.
48	542.89	176.40	0.42	0.22		
49	3449.33	411.04	0.35	0.26		
					District 50 includes whole Garden City; the whole population of Evans; and a	
50	32.01	54.76	0.28	0.13	portion of Greeley.	
51	74.48	44.13	0.71	0.48	1	
52	44.20	37.11	0.47	0.40		
53	32.90	41.33	0.41	0.24		
54	3861.59	371.04	0.44	0.35		
55	67.56	56.37	0.33	0.27		
56	11037.92	571.63	0.48	0.42		The drive time from Aurora to Limon to Cheyenne Wells is approximately 2 hours and 42 minutes. Aurora is the largest population in the district.
57	4153.17	473.27	0.26	0.23	District 57 includes whole Garfield County and Pitkin County, and whole Basalt in Eagle County.	
<u> </u>		110.21	0.20	0.20	Lagio Coamy.	The drive time from Gunnison to
						Montrose to Lewis is approximately 4 hours. Montrose is the largest population in the
58	10625.70	713.35	0.40	0.26		district.
59	4953.73	441.43	0.31	0.32		
60	3126.49	364.58	0.51	0.30		
61	29.00	44.01	0.38	0.19		
62	8941.55	556.23	0.48	0.36		The drive time from Pueblo to Alamosa to Saguache is approximately 2 hours and 53 minutes. Pueblo is the largest population in the district.
32			3.73	1.00		The drive time from Ault to Sterling to Wray is approximately 2 hours and 50 minutes. Sterling is the largest population in the
			0.40	0.55		•
63	12419.39	533.94	0.48	0.55		district.
63 64	12419.39 187.40	533.94 98.97	0.48	0.55 0.24		district.
63 64 65		533.94 98.97 142.72	0.48 0.37 0.33	0.55 0.24 0.17		district.

Source: Colorado Independent Redistricting Commissions Staff.

October 14 2021



### District Compactness Plan: Final Senate Plan

District	Polygon Area (sq. mi)	Perimeter (mi)	Reock	Polsby Popper	Outliers - District Information	Drive Time
						The drive time from Idalia to Julesburg to Greeley is
1	12,822.08	585.50	0.49	0.47		approximately 4 hours and 4 minutes. Greeley is the largest population in this district.
	12,022.00	000.00	0.40	0.47	This Douglas County district extends north-	largest population in this district.
					south to capture the full cities of Parker	
3	117.01 2,404.52	100.56 208.43	0.28 0.58	0.15 0.70	and Castle Rock.	
	2,404.02	200.43	0.56	0.70		The drive time from Canon City to Leadville to Conifer
						is approximately 4 hours and 5 minutes. Canon City is
4	7,451.21	569.55	0.56	0.29		the largest population in this district.
						The drive time from Lake City to Montrose to Glenwood
						Springs is approximately 4 hours and 10 minutes.
5	7,826.44	687.45	0.42	0.21		Montrose is the largest population in this district.
						The drive time from Dove Creek to Durango to Crestone
6	18,160.98	822.14	0.41	0.34		is approximately 4 hours and 48 minutes. Durango is the largest population in this district.
7	3,552.27	301.84	0.40	0.49		are largest population in the district.
						The drive time from Dinosaur to Steamboat Springs to
						Idaho Springs is approximately 4 hours and 32 minutes. Steamboat Springs is the largest population in this
8	18,829.42	679.64	0.51	0.51		district.
9	197.24	84.07	0.46	0.35		2.00.00
10	49.61	35.19	0.39	0.50		
11 12	87.68 396.79	66.34 153.35	0.44	0.25 0.21		
12	390.79	155.55	0.31	0.21	This predominantly Weld County district	
					extends north-south along Highway 85 to	
					connect Greeley to Brighton in Adams	
13	192.98 78.77	163.02	0.15 0.42	0.09 0.23	County.	
14 15	3,052.84	64.99 383.86	0.42	0.26		
16	47.63	44.50	0.32	0.30		
					This predominantly Boulder County district extends north-south frrom Lafayette to	
					Longmont and includes the Weld County	
17	107.49	96.77	0.35	0.14	portions of Erie and Longmont.	
18	82.41	70.87	0.48	0.21		
19	51.24	53.31	0.48	0.23		
20 21	275.06 1,392.75	140.29 242.52	0.48 0.32	0.18 0.30		
22	52.10	58.43	0.32	0.30		

					This district extends north from Erie	
					through the Carbon Valley cities of	
					Dacono, Firestone, and Frederick, and up	
					north of Timnath and Windsor in Larimer	
23	417.39	226.49	0.22	0.10	County.	
24	58.98	56.50	0.43	0.23		
					This district includes all of Broomfield,	
					Northglenn, and some of Adams County	
25	55.12	73.99	0.30	0.13	Westminster.	
					This district extends east-west to include	
					far southwest Denver and the Arapahoe	
					County cities of Sheridan, Englewood, and	
26	41.28	68.23	0.26	0.11	Greenwood Village.	
					This district extends east-west along the	
					southern border of Arapahoe County,	
					including some of Centennial and Aurora	
					along with some of eastern Arapahoe	
27	174.72	92.46	0.27	0.26	County.	
28	227.58	86.84	0.46	0.38		
29	23.44	22.85	0.49	0.56		
30	120.93	69.80	0.53	0.31		
31	18.56	25.05	0.44	0.37		
					This district extends along most of the	
					southern neighborhoods of Denver and	
					includes Arapahoe County enclaves of	
32	24.66	43.93	0.22	0.16	Glendale and Holly Hills.	
- 02	24.00	40.00	0.22	0.10	This district extends east-west along the	
					northern part of the City and County of	
					Denver, including east to Denver	
					International Airport and west to Five	
33	73.80	75.45	0.18	0.16	Points.	
34	26.45	29.37	0.41	0.10	i onits.	
J-T	20.43	20.01	0.71	0.09		The drive time from Ponderosa Park to Trinidad to Holly
						is approximately 5 hours and 32 minutes. Trinidad is the
35	25.747.46	893.51	0.54	0.41		largest population in this district.
33	25,141.40	093.31	0.54	U. <del>4</del> I		rargest population in this district.

Source: Colorado Independent Redistricting Commissions Staff.

October 13, 2021

In re Colorado Independent Legislative Redistricting Commission

### Exhibit 13

Reports Regarding Competitiveness Analysis

### Colorado Independent Redistricting Commissions Staff

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### MEMORANDUM

October 14, 2021

**TO:** Independent Legislative Redistricting Commission

**FROM:** Colorado Independent Redistricting Commissions Staff

**SUBJECT:** Report pursuant to Article V, Section 48.1 (3)(c)

Article V, Section 48.1 (3)(c) of the Colorado Constitution provides:

Section 48.1. Criteria for determinations of congressional districts - definition. (3)(c) When the commission approves a plan, or when nonpartisan staff submits a plan in the absence of the commission's approval of a plan as provided in section 48.2 of this article V, the nonpartisan staff shall, within seventy-two hours of such action, make publicly available, and include in the commission's record, a report to demonstrate how the plan reflects the evidence presented to, and the findings concerning, the extent to which competitiveness in district elections is fostered consistent with the other criteria set forth in this section.

The Colorado Independent Redistricting Commissions Staff submits the following report pursuant to that provision.

### **Evidence of Competitiveness**

Pursuant to Article V, Section 48.1 (3)(b) of the Colorado Constitution, at its public hearings throughout the state, the Colorado Independent Legislative Commission (the "Commission") solicited evidence relevant to the competitiveness of elections in Colorado. Many persons testifying at these hearings only encouraged the Commission to create competitive districts. Many indicated that the Commission should use multiple races over multiple elections. Others testified as to alternative methods of measuring competitiveness or suggested modifications to the Commission's chosen approach. Many of the people who made these suggestions appeared to be favoring one party or another.

The Commission requested that Dr. Bob Loevy, Professor Emeritus of Political Science at Colorado College and a member of the Colorado Reapportionment Commission in 2011, speak to the Commission on measuring competitiveness. Dr. Loevy testified that for the 2011 Colorado Reapportionment Commission, if the difference between the percentage of votes cast for the Democratic and Republican candidates in that race was less than 10% in a district, the district

was considered competitive. Dr. Loevy also testified that, even though Colorado has a large number of voters who are not registered with any political party, the difference between the number of persons registered with the Democratic or Republican Party is a good source of information on the competitiveness of a district.

The Mapping and Quantitative Subcommittee of the Commission ("Mapping Subcommittee") spent considerable time during thirteen of its meetings discussing competitiveness. It heard from Ben Schler, from Reasonable Districts Colorado, and Bradley Wascher, a data vendor at Inside Elections. Mr. Wascher said that it is more valuable to measure a district's partisan performance through the use of election results rather than voter registration. He recommended using a number of elections to measure partisan performance. Members of the Mapping Subcommittee were worried about adjusting and weighing election results, noting that this might enable the analysis to be manipulated.

The Mapping Subcommittee also received a presentation from Dwayne Liller. Mr. Liller provided an analysis of various statewide elections in which the majority of the voters in a precinct switched between voting for a Democratic or Republican candidate, believing that those precincts could be used to create a competitive district. Mr. Liller's analysis is available on the Commission's website and through the following link:

https://coleg.app.box.com/s/qjrs5olyxgtskvhudnzr0ak4d3q0y32i/file/845364225276

Finally, the Mapping Subcommittee heard from Dr. Jeanne Clelland from the University of Colorado Boulder and Dr. Beth Malmskog from Colorado College on an ensemble analysis, whereby a computer creates thousands of plans in order to identify whether a plan falls within an expected range or whether the plan is outside of that expected range. The ensemble reports on the final plans being considered by the Commission are available through the following link: <a href="https://coleg.app.box.com/s/girs5olyxgtskvhudnzr0ak4d3q0y32i/file/870792602643">https://coleg.app.box.com/s/girs5olyxgtskvhudnzr0ak4d3q0y32i/file/870792602643</a>

Ultimately, the Mapping Subcommittee recommended Policy #6: Direction to Staff on Maximizing Competitiveness, attached as Appendix A to this report. Under that policy, nonpartisan staff was directed to use eight statewide races from the 2018 and 2020 General Elections to measure the competitiveness of proposed legislative districts and to average the difference between the percentage of votes cast for the Republican candidate and the Democratic candidate for those races. The Mapping Subcommittee recommended that the Commission use election results rather than party registration for analyzing competitiveness, arguing that such results more accurately reflect how voters actually perform. The Mapping Subcommittee recommended that nonpartisan staff be directed to maximize the number of districts that have a maximum differential of 8.5% between the Democratic and Republican candidates and to maximize the number of districts that have the lowest differential.

The Commission ultimately approved the Mapping Subcommittee's recommendation at its meeting on August 27, 2021, and directed nonpartisan staff to use the average of the eight identified races when creating legislative plans.

All of the plans for legislative redistricting presented to the Commission for its consideration included two reports relating to competitiveness: one showing the election results in each district for the eight elections and an average over all eight; and one showing the number and

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<sup>&</sup>lt;sup>1</sup> The Commission considered the ensemble analysis not only when looking at competitiveness, but also racial and language minority representation.

percentage of persons registered with the Democratic or Republican Party for each proposed congressional district.

### Competitiveness of Approved Legislative Redistricting Plans

The Commission considered the competitiveness of each plan that was submitted. However, under the priority of criteria established in Article V, Section 48.1, competitiveness is the last item the Commission is to consider. While the Commission considered other plans that may have had more districts with lower differentials between the Democratic and Republican candidates, the Commission believed that the Final Approved House Redistricting Plan and the Final Approved Senate Redistricting Plan did a better job of preserving whole communities of interest and political subdivisions, which have higher priority than competitiveness.

The Statewide Election Result by District Report for the Final Approved House Redistricting Plan is attached to this report as Appendix B and shows that there are 16 districts that have a differential of 8.5% or less. Also, the Active Registered Voters Report for the Final Approved House Redistricting Plan is provided as Appendix C.

Similarly, the Statewide Election Result by District Report for the Final Approved Senate Redistricting Plan is attached to this report as Appendix D and shows that there are 11 districts that have a differential of 8.5% or less. Also, the Active Registered Voters Report for the Final Approved Senate Redistricting Plan is provided as Appendix E.

## APPENDIX B Statewide Election Results by District Plan: 2021 Final Approved House Plan

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State Differential	2018 CU Regent at Large Differential	2020 Senate Differential
1	-34.6%	-32.4%	-32.2%	-32.7%	-35.8%	-35.3%	-35.2%	-36.8%	-36.2%
2	-48.5%	-46.1%	-53.5%	-48.2%	-51.1%	-44.3%	-43.8%	-49.4%	-51.7%
3	-28.7%	-25.6%	-27.4%	-26.7%	-31.3%	-27.4%	-28.2%	-30.2%	-32.7%
4	-63.3%	-60.4%	-65.8%	-63.3%	-66.0%	-60.9%	-61.6%	-65.7%	-62.8%
5	-63.7%	-59.6%	-65.4%	-64.9%	-66.9%	-60.8%	-62.0%	-66.6%	-63.5%
6	-66.9%	-64.0%	-68.6%	-66.5%	-69.9%	-64.4%	-64.2%	-69.0%	-68.5%
7	-64.5%	-61.4%	-66.7%	-63.3%	-65.8%	-64.3%	-65.2%	-67.1%	-62.4%
8	-74.4%	-71.4%	-78.6%	-73.9%	-76.7%	-72.0%	-71.3%	-76.5%	-75.1%
9	-47.3%	-44.2%	-47.8%	-45.8%	-50.1%	-46.0%	-46.1%	-48.9%	-49.6%
10	-74.2%	-71.6%	-76.4%	-76.7%	-78.7%	-65.9%	-73.1%	-76.3%	-74.6%
11	-29.9%	-24.3%	-26.9%	-29.9%	-33.7%	-26.8%	-31.1%	-31.4%	-35.3%
12	-49.2%	-44.6%	-51.6%	-49.8%	-53.8%	-43.1%	-47.1%	-50.6%	-53.4%
13	-5.4%	-3.8%	-0.6%	-4.9%	-9.1%	-4.6%	-6.5%	-6.0%	-7.7%
14	30.6%	33.5%	31.1%	31.6%	27.4%	31.4%	34.8%	30.7%	24.4%
15	25.5%	31.4%	32.5%	26.0%	21.8%	24.5%	24.1%	23.0%	20.6%
16	3.1%	6.2%	8.4%	2.5%	-1.2%	2.1%	7.6%	1.3%	-1.7%
17	-12.8%	-7.6%	-4.2%	-13.7%	-16.7%	-14.7%	-13.9%	-16.3%	-15.3%
18	-0.3%	1.2%	2.1%	-0.7%	-4.7%	-0.9%	5.6%	-1.3%	-3.9%
19	1.5%	4.9%	3.8%	2.3%	-1.9%	2.4%	0.9%	0.7%	-1.0%
20	47.5%	49.6%	50.3%	48.8%	45.0%	47.5%	48.0%	47.7%	43.1%
21	16.7%	20.2%	25.5%	17.2%	12.7%	14.9%	13.9%	13.5%	15.5%
22	27.0%	30.8%	32.1%	28.3%	23.4%	26.6%	28.4%	26.3%	20.3%
23	-21.7%	-18.7%	-17.6%	-19.2%	-24.8%	-21.8%	-22.1%	-24.0%	-25.3%
24	-7.4%	-4.5%	-2.5%	-4.5%	-10.6%	-7.5%	-8.2%	-9.0%	-12.5%
25	1.8%	3.5%	2.7%	4.4%	-1.4%	3.0%	2.4%	1.6%	-2.0%
26	-2.7%	-1.0%	2.0%	-3.9%	-6.4%	-0.6%	-2.7%	-3.6%	-5.3%
27	-12.0%	-9.6%	-10.3%	-9.8%	-15.2%	-11.2%	-11.0%	-13.4%	-15.8%
28	-2.3%	-0.1%	-0.4%	1.0%	-5.5%	-2.0%	-2.5%	-3.7%	-5.4%
29	-13.1%	-10.9%	-10.0%	-10.7%	-16.7%	-12.8%	-13.4%	-14.1%	-16.3%
30	-27.6%	-25.2%	-24.3%	-25.0%	-30.2%	-27.7%	-27.6%	-29.8%	-30.6%
31	-19.6%	-17.8%	-14.4%	-17.2%	-21.5%	-21.8%	-22.4%	-21.9%	-19.5%
32	-18.5%	-17.6%	-14.6%	-15.8%	-18.6%	-20.0%	-21.2%	-21.5%	-18.4%
33	-13.6%	-9.0%	-11.5%	-12.0%	-17.8%	-12.9%	-14.0%	-15.0%	-16.4%
34	-8.2%	-6.0%	-3.2%	-5.8%	-10.5%	-10.0%	-10.7%	-10.6%	-8.6%
35	-34.3%	-31.9%	-28.9%	-32.7%	-35.9%	-36.3%	-36.6%	-37.1%	-34.9%
36	-29.6%	-25.4%	-26.3%	-27.1%	-31.4%	-30.7%	-31.2%	-32.9%	-31.5%
37	-7.0%	-4.5%	-9.0%	-4.0%	-9.7%	-4.3%	-4.5%	-7.1%	-13.2%
38	-2.9%	-1.4%	-2.3%	0.9%	-5.7%	-1.7%	-1.9%	-3.4%	-8.0%
39	23.1%	24.7%	22.8%	26.8%	21.1%	25.2%	23.5%	23.3%	17.5%
40	-18.5%	-14.6%	-14.9%	-15.6%	-20.9%	-19.1%	-19.9%	-21.8%	-20.9%
41	-30.6%	-28.7%	-28.4%	-27.2%	-32.3%	-31.2%	-30.8%	-33.0%	-33.4%
42	-45.8%	-42.9%	-44.8%	-43.3%	-47.3%	-46.2%	-46.1%	-48.4%	-47.7%
43	7.4%	10.4%	7.0%	12.3%	4.3%	9.0%	7.6%	7.2%	1.3%
44	19.3%	22.3%	21.7%	22.9%	16.4%	19.7%	18.1%	18.2%	14.9%
45	27.0%	29.4%	29.5%	30.0%	24.3%	27.3%	25.1%	26.4%	23.9%
46	-7.1%	-12.6%	-1.4%	-5.0%	-8.5%	-6.9%	-11.4%	-7.1%	-3.8%
47	24.6%	16.3%	33.4%	26.5%	23.1%	23.8%	19.9%	24.1%	29.3%
48	20.1%	15.2%	23.5%	23.5%	21.2%	17.8%	17.7%	20.2%	21.9%
49	-28.9%	-25.4%	-27.3%	-29.8%	Election Results	-25.1%	-30.0%	-30.8%	-30.2% Page 1 o

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State Differential	2018 CU Regent at Large Differential	2020 Senate Differential
50	-6.2%	-10.8%	-3.5%	-2.7%	-4.4%	-13.6%	-6.8%	-4.1%	-3.7%
51	11.4%	13.2%	18.4%	13.0%	7.7%	10.7%	8.8%	10.3%	8.8%
52	-19.1%	-14.0%	-17.2%	-17.1%	-24.1%	-18.3%	-18.6%	-20.2%	-23.2%
53	-44.0%	-36.7%	-40.3%	-45.2%	-49.9%	-43.6%	-44.2%	-47.2%	-45.2%
54	45.0%	45.1%	52.6%	45.6%	40.1%	44.3%	43.9%	42.8%	45.6%
55	23.9%	25.0%	29.5%	25.0%	17.9%	24.8%	24.6%	21.6%	22.7%
56	53.7%	49.4%	58.6%	55.9%	52.6%	53.6%	51.8%	53.7%	53.6%
57	-15.7%	-13.6%	-11.6%	-17.0%	-18.7%	-14.2%	-16.3%	-17.3%	-16.7%
58	12.8%	14.1%	19.7%	12.3%	8.7%	12.7%	11.1%	10.8%	12.8%
59	-2.2%	-0.4%	2.4%	-3.2%	-4.7%	-3.1%	-1.5%	-4.4%	-2.9%
60	37.2%	35.9%	45.5%	37.8%	33.6%	36.7%	33.3%	36.2%	38.4%
61	-0.5%	2.6%	0.3%	2.7%	-3.4%	0.0%	-1.0%	-2.2%	-3.1%
62	-17.0%	-21.5%	-13.4%	-15.9%	-17.2%	-18.0%	-19.9%	-18.8%	-11.7%
63	53.8%	41.4%	58.1%	56.1%	55.4%	54.1%	52.4%	55.7%	57.6%
64	25.5%	22.4%	28.9%	29.4%	25.0%	21.3%	24.4%	27.9%	24.9%
65	25.0%	24.4%	27.5%	26.5%	22.1%	24.8%	24.1%	26.2%	24.8%

Results are reported as the difference between the percent of votes cast for the Republican candidate and the percent of votes cast for the Democratic candidate. A positive differential means the Republican won, and a negative differential means the Democrat won.

Source: Data provided by the Colorado Secretary of State's Office. Calculations prepared by Colorado Independent Redistricting Commissions Staff. October 14, 2021

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# Appendix C Active Registered Voters\* Plan: 2021 Final Approved House Plan

11	8,303	20,409			
,		20.409	1.042	21,990	51.744
	16.0%	39.4%	2.0%	42.5%	
22	9,332	28,164	861	28,066	66,423
0	14.0%	42.4%	1.3%	42.3%	55.004
3	10,531 19.0%	19,399 35.1%	1,136 2.1%	24,268 43.9%	55,334
4	5,087	27,095	1,054	24,440	57,676
	8.8%	47.0%	1.8%	42.4%	,
5	4,782	25,016	1,074	24,310	55,182
0	8.7%	45.3%	1.9%	44.1%	04.440
6	4,966 8.1%	30,412 49.7%	1,162 1.9%	24,600 40.2%	61,140
7	3.855	22,189	773	18,511	45.328
•	8.5%	49.0%	1.7%	40.8%	40,020
8	3,978	34,603	1,011	25,016	64,608
	6.2%	53.6%	1.6%	38.7%	
9	7,815	24,794	1,167	24,297	58,072
10	13.5% 3.552	42.7% 29.085	2.0% 852	41.8% 23.096	56,586
	6.3%	51.4%	1.5%	40.8%	30,300
11	10,102	20,724	1.021	26,683	58,529
	17.3%	35.4%	1.7%	45.6%	
12	8,159	27,352	779	27,796	64,086
40	12.7%	42.7%	1.2%	43.4%	00.050
13	18,657	17,303	1,345 2.0%	31,545	68,850
14	27.1% 26,071	25.1% 10,950	1,160	45.8% 28,739	66,920
	39.0%	16.4%	1.7%	42.9%	00,020
15	18,727	10,137	1,313	24,590	54,766
	34.2%	18.5%	2.4%	44.9%	
16	16,170	14,387	1,446	25,770	57,773
17	28.0% 9,269	24.9% 12,872	2.5% 1,303	44.6% 21,267	44,710
17	20.7%	28.8%	2.9%	47.6%	44,710
18	17,619	15,430	1,410	27,297	61,756
	28.5%	25.0%	2.3%	44.2%	
19	17,199	15,810	1,103	28,851	62,963
00	27.3%	25.1%	1.8%	45.8%	00.400
	30,312 45.8%	8,085 12.2%	1,123 1.7%	26,644 40.3%	66,163
21	13.189	9,193	1,191	21,228	44.800
	29.4%	20.5%	2.7%	47.4%	,
22	21,895	11,024	1,304	26,281	60,504
	36.2%	18.2%	2.2%	43.4%	
<del>23</del>	13,249	21,509	1,235	29,164	65,157
24	20.3% ————————————————————————————————————	33.0% 19,605	1.9% 1,122	44.8% 29,615	66,907
	24.8%	29.3%	1.7%	44.3%	00,907
25	21,210	17,543	1,115	32,237	72,105
	29.4%	24.3%	1.5%	44.7%	
26	17,709	14,569	1,049	28,318	61,646
27	28.7%	23.6%	1.7%	45.9%	GE 7G1
27	16,016 24.4%	19,004 28.9%	1,094 1.7%	<del>29,648</del> 45.1%	65,761
28	17,121	16,593	1,023	27,902	62,638
	27.3%	26.5%	1.6%	44.5%	
29	14,198	18,846	1,087	28,384	62,515
00	22.7%	30.1%	1.7%	45.4%	F7 100
30	10,307 18.0%	<del>20,581</del> 36.0%	1,225 2.1%	<del>25,080</del> 43.9%	57,193
31	8,697	36.0% 15,552	1,000	43.9% 21,191	46,440
	18.7%	33.5%	2.2%	45.6%	13,110
32	8,881	16,245	932	20,792	46,849
	19.0%	34.7%	2.0%	44.4%	
33	14,730	18,077	995	28,560	62,361
3.1	23.6%	29.0%	1.6%	45.8% 25.161	56.056
34	<del>12,964</del> 23.1%	<del>16,817</del> 30.0%	1,115 2.0%	<del>25,161</del> 44.9%	56,056
35	7,016	17,744	1,047	20,861	46,667
	15.0%	38.0%	2.2%	44.7%	. 5,000
			941	19,092	43,683
36	7,206	16,444			10,000
	16.5%	37.6%	2.2%	43.7%	,
36 37					62,441

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District	Republican	Democrat	Minor Party**	Unaffiliated	Total
	28.8%	26.8%	1.6%	42.7%	
39	26,121	12,728	922	28,575	68,346
	38.2%	18.6%	1.3%	41.8%	
40	12,424	19,772	1,129	26,724	60,049
	20.7%	32.9%	1.9%	44.5%	
41	9,591	21,346	1,086	22,735	54,759
	17.5%	39.0%	2.0%	41.5%	
42	5,109	17,518	956	16,895	40,478
	12.6%	43.3%	2.4%	41.7%	
43	21,855	15,080	868	28,736	66,538
	32.8%	22.7%	1.3%	43.2%	
44	22,467	12,494	1,053	28,776	64,790
	34.7%	19.3%	1.6%	44.4%	05.000
45	25,016	11,228	1,146	27,648	65,038
	38.5%	17.3%	1.8%	42.5%	24.005
46	14,552	23,318	1,059	22,767	61,695
	23.6%	37.8%	1.7%	36.9%	
47	20,787	14,985	1,017	21,981	58,770
	35.4%	25.5%	1.7%	37.4%	50.400
48	17,615	12,989	1,046	24,457	56,108
	31.4%	23.2%	1.9%	43.6%	70.450
49	14,482	26,280	1,193	30,198	72,153
	20.1%	36.4%	1.7%	41.9%	40.700
50	9,590	11,254	1,019	18,899	40,762
	23.5%	27.6%	2.5%	46.4%	
51	20,946	14,495	1,208	29,006	65,656
	31.9%	22.1%	1.8%	44.2%	22.222
52	15,115	19,781	1,115	30,058	66,069
	22.9%	29.9%	1.7%	45.5%	57.074
53	8,747	20,800	1,324	26,503	57,374
	15.2%	36.3%	2.3%	46.2%	00.740
54	27,205	8,671	1,176	25,697	62,749
	43.4%	13.8%	1.9%	41.0%	CO 405
55	22,358	11,227	1,190	25,411	60,185
- FC	37.1%	18.7%	2.0%	42.2%	CF CO7
56	31,000	8,068	1,113 1.7%	25,426 38.8%	65,607
57	47.3%	12.3%	1.7%		57,698
57	13,285	16,356	1,090	26,968 46.7%	57,696
58	23.0% 23,331	28.3% 14,950	1,154	26,832	66,268
56	35.2%	22.6%	1,154	40.5%	66,266
59	20,853	17,782	1,303	28,519	68,458
59	30.5%	26.0%	1,9%	41.7%	66,436
60	27,671	10,424	1,230	25,565	64,890
00	42.6%	16.1%	1.9%	39.4%	04,890
61	18,164	17,027	883	28,811	64,884
01	28.0%	26.2%	1.4%	44.4%	04,004
62	12,769	22,763	1.4%	20,443	57,020
02	22.4%	39.9%	1,045	35.9%	31,020
63	27,275	7,443	857	20,582	56,157
0.5	48.6%	13.3%	1.5%	36.7%	30, 137
64	23,325	12,222	1,122	26,898	63,567
04	36.7%	19.2%	1.8%	42.3%	00,007
65	24,954	11,353	1,039	27,308	64,654
0.0	38.6%	17.6%	1.6%	42.2%	04,004
	30.0 /0	17.070	1.070	42.2/0	

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<sup>\*</sup>As of June 15, 2021.

\*\*Minor Party registrations include: American Constitution, Approval Voting, Green, Libertarian, and Unity.

Source: Colorado Secretary of State.

October 14, 2021

### APPENDIX D Statewide Election Results by District

Plan: Final Senate Plan

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State Differential	2018 CU Regent at Large Differential	2020 Senate Differential
1	43.8%	34.6%	47.6%	47.2%	45.0%	41.4%	42.7%	46.3%	45.5%
2	23.3%	26.0%	25.9%	26.7%	20.5%	23.7%	21.7%	22.6%	19.6%
3	-5.1%	-10.1%	0.5%	-3.4%	-6.5%	-5.3%	-9.6%	-5.7%	-0.8%
4	23.5%	24.7%	29.8%	24.3%	20.2%	23.3%	21.1%	22.8%	22.0%
5	3.0%	4.5%	8.8%	2.1%	-0.9%	3.6%	1.5%	1.3%	3.1%
6	-0.9%	-0.9%	3.9%	-1.3%	-2.7%	-1.7%	-1.1%	-3.0%	-0.2%
7	33.0%	34.1%	39.7%	33.8%	27.1%	33.1%	32.9%	30.6%	32.4%
8	-6.6%	-4.7%	-1.8%	-7.2%	-10.6%	-5.0%	-6.8%	-7.6%	-8.9%
9	33.4%	36.3%	34.7%	34.7%	30.2%	33.8%	36.4%	33.4%	27.4%
10	23.8%	27.8%	29.1%	24.6%	20.1%	23.3%	25.0%	22.6%	17.7%
11	-2.4%	1.7%	5.4%	-2.9%	-6.2%	-4.0%	-2.8%	-5.3%	-5.3%
12	2.4%	5.2%	7.4%	1.7%	-2.5%	1.0%	6.0%	0.2%	0.5%
13	3.7%	-0.7%	6.8%	7.3%	5.1%	-1.5%	2.1%	4.7%	5.8%
14	-33.3%	-27.3%	-30.6%	-33.1%	-38.7%	-32.7%	-33.1%	-35.5%	-35.7%
15	0.0%	3.0%	5.1%	0.6%	-3.9%	0.8%	-2.4%	-1.3%	-1.7%
16	-0.1%	1.3%	0.6%	3.8%	-3.1%	1.0%	0.8%	-0.5%	-5.0%
17	-29.6%	-24.0%	-28.2%	-29.8%	-33.9%	-26.5%	-29.5%	-31.3%	-33.6%
18	-65.0%	-62.2%	-68.2%	-66.6%	-69.3%	-57.0%	-63.1%	-66.6%	-66.8%
19	-9.2%	-6.1%	-4.7%	-6.4%	-12.5%	-9.4%	-9.9%	-11.0%	-13.4%
20	-7.1%	-5.2%	-5.9%	-4.1%	-10.2%	-6.2%	-6.6%	-8.3%	-10.7%
21	-13.8%	-13.3%	-9.3%	-11.5%	-14.4%	-15.3%	-16.2%	-16.1%	-14.0%
22	-28.4%	-25.3%	-24.3%	-26.8%	-31.4%	-28.3%	-28.5%	-30.7%	-31.7%
23	21.5%	21.7%	24.3%	23.4%	19.0%	21.6%	20.1%	22.1%	20.1%
24	-9.1%	-7.6%	-5.2%	-6.3%	-10.9%	-10.6%	-11.3%	-11.1%	-9.6%
25	-16.0%	-12.9%	-13.0%	-14.1%	-19.6%	-16.0%	-16.5%	-17.3%	-18.8%
26	-25.1%	-22.8%	-25.2%	-22.9%	-27.3%	-23.5%	-23.9%	-26.2%	-29.2%
27	-4.7%	-0.9%	-3.4%	-1.9%	-7.7%	-4.2%	-4.9%	-6.6%	-7.9%
28	-32.4%	-29.1%	-30.3%	-29.8%	-33.8%	-33.0%	-33.3%	-35.4%	-34.5%
29	-29.4%	-26.9%	-26.9%	-26.2%	-31.4%	-30.0%	-30.1%	-32.1%	-31.9%
30	11.7%	14.2%	11.1%	16.1%	9.0%	13.5%	12.1%	11.6%	6.2%
31	-60.4%	-57.8%	-64.1%	-60.3%	-63.2%	-57.0%	-56.6%	-61.9%	-62.5%
32	-46.8%	-43.7%	-46.9%	-45.5%	-49.4%	-45.8%	-45.8%	-48.9%	-48.7%
33	-70.8%	-67.8%	-74.3%	-70.0%	-72.7%	-69.3%	-69.1%	-73.2%	-69.9%
34	-63.9%	-60.7%	-66.1%	-64.4%	-66.7%	-61.3%	-62.3%	-66.5%	-63.3%
35	44.8%	39.8%	50.5%	46.6%	43.5%	44.5%	42.4%	44.8%	46.1%

Results are reported as the difference between the percent of votes cast for the Republican candidate and the percent of votes cast for the Democratic candidate. A positive differential means the Republican won, and a negative differential means the Democrat

Source: Data provided by the Colorado Secretary of State's Office. Calculations prepared by Colorado Independent Redistricting Commissions Staff. October 14, 2021

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### APPENDIX E Active Registered Voters\* Plan: 2021 Final Approved Senate Plan

District	Republican	Democrat	Minor Party**	Unaffiliated	Total
1	47,340	16,731	1,731	41,728	107,530
	44.0%	15.6%	1.6%	38.8%	
2	44,358 36.5%	22,167 18.2%	2,090 1.7%	52,857 43.5%	121,471
3	27,491	40,571	2,037	42,315	112,414
J	24.5%	36.1%	1.8%	37.6%	112,414
4	50,112	25,258	2,461	55,192	133,023
	37.7%	19.0%	1.8%	41.5%	
5	33,004	26,353	2,012	47,718	109,087
	30.3%	24.2%	1.8%	43.7%	110.550
6	36,702 30.7%	33,845 28.3%	2,124 1.8%	46,883	119,553
7	44,293	18,487	2,156	39.2% 46,608	111,544
'	39.7%	16.6%	1.9%	41.8%	111,044
8	31,237	28,424	2,133	53,486	115,280
	27.1%	24.7%	1.8%	46.4%	,
9	47,907	18,738	2,036	50,729	119,409
	40.1%	15.7%	1.7%	42.5%	
10	39,419	21,712	2,562	49,315	113,009
11	34.9%	19.2% 23,137	2.3% 2,551	43.6% 42,028	89,104
11	21,388 24.0%	23,137	2,551 2.9%	42,028 47.2%	69,104
12	29,381	24,812	2,483	46,896	103,573
	28.4%	24.0%	2.4%	45.3%	100,010
13	22,602	22,544	1,865	38,462	85,473
	26.4%	26.4%	2.2%	45.0%	
14	20,056	36,627	2,195	49,248	108,126
	18.5%	33.9%	2.0%	45.5%	
15	35,937	32,095	2,211	54,413	124,656
16	28.8% 37,600	25.7% 32,719	1.8% 1,939	43.7%	127,084
10	29.6%	25.7%	1.5%	54,827 43.1%	127,004
17	20,692	40,237	1,836	52,419	115,184
	18.0%	34.9%	1.6%	45.5%	
18	9,666	55,043	1,474	46,480	112,664
	8.6%	48.9%	1.3%	41.3%	
19	29,307	35,605	2,036	54,168	121,115
	24.2%	29.4%	1.7%	44.7%	107.700
20	32,916	35,666	2,045	57,170	127,796
21	25.8% 19,280	27.9% 31,062	1.6% 1,892	44.7% 41,138	93,373
21	20.6%	33.3%	2.0%	44.1%	93,373
22	20,105	38,876	2,320	49,461	110,763
	18.2%	35.1%	2.1%	44.7%	,
23	40,823	22,369	2,043	50,746	115,982
	35.2%	19.3%	1.8%	43.8%	
24	22,358	30,204	1,906	44,646	99,114
05	22.6%	30.5%	1.9%	45.0%	444.400
25	24,290	34,488	2,057	50,627	111,463
26	21.8% 21,917	30.9% 37,120	1.8% 2,012	45.4% 46,311	107,360
20	20.4%	34.6%	1.9%	43.1%	107,300
27	29,900	31,528	1,757	50,865	114,050
	26.2%	27.6%	1.5%	44.6%	·
28	12,681	30,884	1,720	34,429	79,714
20	15.9%	38.7%	2.2%	43.2%	0
29	17,040	37,038	1,967	41,157	97,202
30	17.5% 42,881	38.1% 26,744	2.0% 1,620	42.3% 54,102	125,348
30	34.2%	26,744	1.3%	43.2%	125,340
31	12,371	56,595	2,021	50,431	121,418
	10.2%	46.6%	1.7%	41.5%	.21,110
32	13,571	43,462	1,932	42,762	101,727
	13.3%	42.7%	1.9%	42.0%	
33	7,025	50,649	1,536	38,433	97,644
0.4	7.2%	51.9%	1.6%	39.4%	40= 1=1
34	9,335	49,913	2,026	46,177	107,451
	8.7% 53,923	46.5% 20,022	1.9% 2,140	43.0% 45,667	121,752
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<sup>\*</sup>As of June 15, 2021.

\*\*\*Minor Party registrations include: American Constitution, Approval Voting, Green, Libertarian, and Unity.
Source: Colorado Secretary of State.
October 14, 2021

## Colorado Independent Redistricting Commissions Active Registered Voters\* Plan: 2021 Final Approved House Plan

District	Republican	Democrat	Minor Party**	Unaffiliated	Total
1	8,303	20,409	1,042	21,990	51,744
2	16.0% 9,332	39.4% 28,164	2.0% 861	42.5% 28,066	66,423
-	14.0%	42.4%	1.3%	42.3%	30,120
3	10,531	19,399	1,136	24,268	55,334
4	19.0% 5,087	35.1% 27,095	2.1% 1,054	43.9% 24,440	57,676
	8.8%	47.0%	1.8%	42.4%	·
5	4,782	25,016	1,074	24,310	55,182
6	8.7% 4,966	45.3% 30,412	1.9% 1,162	44.1% 24,600	61,140
	8.1%	49.7%	1.9%	40.2%	01,140
7	3,855	22,189	773	18,511	45,328
8	8.5% 3,978	49.0% 34,603	1.7% 1,011	40.8% 25,016	64,608
· ·	6.2%	53.6%	1.6%	38.7%	01,000
9	7,815	24,794	1,167	24,297	58,072
10	13.5% 3,552	42.7% 29,085	2.0% 852	41.8% 23,096	56,586
10	6.3%	51.4%	1.5%	40.8%	50,560
11	10,102	20,724	1,021	26,683	58,529
40	17.3%	35.4%	1.7% 779	45.6%	C4 00C
12	8,159 12.7%	27,352 42.7%	1.2%	27,796 43.4%	64,086
13	18,657	17,303	1,345	31,545	68,850
	27.1%	25.1%	2.0%	45.8%	
14	26,071 39.0%	10,950 16.4%	1,160 1.7%	28,739 42.9%	66,920
15	18,727	10,137	1,313	24,590	54,766
	34.2%	18.5%	2.4%	44.9%	
16	16,170 28.0%	14,387 24.9%	1,446 2.5%	25,770 44.6%	57,773
17	9,269	12,872	1,303	21,267	44,710
	20.7%	28.8%	2.9%	47.6%	
18	17,619	15,430	1,410	27,297	61,756
19	28.5% 17,199	25.0% 15,810	2.3% 1,103	44.2% 28,851	62,963
10	27.3%	25.1%	1.8%	45.8%	02,000
20	30,312	8,085	1,123	26,644	66,163
21	45.8% 13,189	12.2% 9,193	1.7% 1,191	40.3% 21,228	44,800
21	29.4%	20.5%	2.7%	47.4%	44,000
22	21,895	11,024	1,304	26,281	60,504
23	36.2% 13,249	18.2% 21,509	2.2% 1,235	43.4% 29,164	65,157
23	20.3%	33.0%	1.9%	44.8%	05,157
24	16,565	19,605	1,122	29,615	66,907
0.5	24.8%	29.3%	1.7%	44.3%	70.405
25	21,210 29.4%	17,543 24.3%	1,115 1.5%	32,237 44.7%	72,105
26	17,709	14,569	1,049	28,318	61,646
27	28.7%	23.6%	1.7%	45.9%	6F 764
21	16,016 24.4%	19,004 28.9%	1,094 1.7%	29,648 45.1%	65,761
28	17,121	16,593	1,023	27,902	62,638
20	27.3%	26.5%	1.6%	44.5%	00.545
29	14,198 22.7%	18,846 30.1%	1,087 1.7%	28,384 45.4%	62,515
30	10,307	20,581	1,225	25,080	57,193
0.4	18.0%	36.0%	2.1%	43.9%	40.110
31	8,697 18.7%	15,552 33.5%	1,000 2.2%	21,191 45.6%	46,440
32	8,881	16,245	932	20,792	46,849
	19.0%	34.7%	2.0%	44.4%	
33	14,730 23.6%	18,077 29.0%	995 1.6%	28,560 45.8%	62,361
34	12,964	16,817	1,115	<u>45.8%</u> 25,161	56,056
	23.1%	30.0%	2.0%	44.9%	
35	7,016	17,744	1,047	20,861	46,667
36	15.0% 7,206	38.0% 16,444	2.2% 941	44.7% 19,092	43,683
	16.5%	37.6%	2.2%	43.7%	
37	17,161	17,452 27.9%	847	26,981 43.2%	62,441
	27.5%		1.4%		

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District	Republican	Democrat	Minor Party**	Unaffiliated	Total
	28.8%	26.8%	1.6%	42.7%	
39	26,121	12,728	922	28,575	68,346
	38.2%	18.6%	1.3%	41.8%	
40	12,424	19,772	1,129	26,724	60,049
	20.7%	32.9%	1.9%	44.5%	
41	9,591	21,346	1,086	22,735	54,759
	17.5%	39.0%	2.0%	41.5%	
42	5,109	17,518	956	16,895	40,478
	12.6%	43.3%	2.4%	41.7%	
43	21,855	15,080	868	28,736	66,538
	32.8%	22.7%	1.3%	43.2%	
44	22,467	12,494	1,053	28,776	64,790
	34.7%	19.3%	1.6%	44.4%	
45	25,016	11,228	1,146	27,648	65,038
- 10	38.5%	17.3%	1.8%	42.5%	01.005
46	14,552	23,318	1,059	22,767	61,695
47	23.6%	37.8%	1.7% 1,017	36.9%	50.770
47	20,787	14,985		21,981	58,770
40	35.4%	25.5%	1.7% 1,046	37.4%	50.400
48	17,615 31.4%	12,989 23.2%	1,046	24,457 43.6%	56,108
49	14,482	26,280	1,193	30,198	72,153
49	20.1%	36.4%	1,193	41.9%	72,153
50	9,590	11,254	1,019	18,899	40,762
30	23.5%	27.6%	2.5%	46.4%	40,702
51	20,946	14,495	1,208	29,006	65,656
31	31.9%	22.1%	1.8%	44.2%	00,000
52	15,115	19,781	1,115	30,058	66,069
02	22.9%	29.9%	1.7%	45.5%	00,000
53	8,747	20,800	1,324	26,503	57,374
00	15.2%	36.3%	2.3%	46.2%	0.,0.
54	27,205	8,671	1,176	25,697	62,749
	43.4%	13.8%	1.9%	41.0%	,
55	22,358	11,227	1,190	25,411	60,185
	37.1%	18.7%	2.0%	42.2%	ŕ
56	31,000	8,068	1,113	25,426	65,607
	47.3%	12.3%	1.7%	38.8%	,
57	13,285	16,356	1,090	26,968	57,698
	23.0%	28.3%	1.9%	46.7%	
58	23,331	14,950	1,154	26,832	66,268
	35.2%	22.6%	1.7%	40.5%	
59	20,853	17,782	1,303	28,519	68,458
	30.5%	26.0%	1.9%	41.7%	
60	27,671	10,424	1,230	25,565	64,890
	42.6%	16.1%	1.9%	39.4%	
61	18,164	17,027	883	28,811	64,884
	28.0%	26.2%	1.4%	44.4%	
62	12,769	22,763	1,045	20,443	57,020
	22.4%	39.9%	1.8%	35.9%	
63	27,275	7,443	857	20,582	56,157
	48.6%	13.3%	1.5%	36.7%	
64	23,325	12,222	1,122	26,898	63,567
	36.7%	19.2%	1.8%	42.3%	0.1.0=:
65	24,954	11,353	1,039	27,308	64,654
	38.6%	17.6%	1.6%	42.2%	

October 14, 2021

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<sup>\*</sup>As of June 15, 2021.

\*\*Minor Party registrations include: American Constitution, Approval Voting, Green, Libertarian, and Unity.

Source: Colorado Secretary of State.



### Statewide Election Results by District Plan: 2021 Final Approved House Plan

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State Differential	2018 CU Regent at Large Differential	2020 Senate Differential
1	-34.6%	-32.4%	-32.2%	-32.7%	-35.8%	-35.3%	-35.2%	-36.8%	-36.2%
2	-48.5%	-46.1%	-53.5%	-48.2%	-51.1%	-44.3%	-43.8%	-49.4%	-51.7%
3	-28.7%	-25.6%	-27.4%	-26.7%	-31.3%	-27.4%	-28.2%	-30.2%	-32.7%
4	-63.3%	-60.4%	-65.8%	-63.3%	-66.0%	-60.9%	-61.6%	-65.7%	-62.8%
5	-63.7%	-59.6%	-65.4%	-64.9%	-66.9%	-60.8%	-62.0%	-66.6%	-63.5%
6	-66.9%	-64.0%	-68.6%	-66.5%	-69.9%	-64.4%	-64.2%	-69.0%	-68.5%
7	-64.5%	-61.4%	-66.7%	-63.3%	-65.8%	-64.3%	-65.2%	-67.1%	-62.4%
8	-74.4%	-71.4%	-78.6%	-73.9%	-76.7%	-72.0%	-71.3%	-76.5%	-75.1%
9	-47.3%	-44.2%	-47.8%	-45.8%	-50.1%	-46.0%	-46.1%	-48.9%	-49.6%
10	-74.2%	-71.6%	-76.4%	-76.7%	-78.7%	-65.9%	-73.1%	-76.3%	-74.6%
11	-29.9%	-24.3%	-26.9%	-29.9%	-33.7%	-26.8%	-31.1%	-31.4%	-35.3%
12	-49.2%	-44.6%	-51.6%	-49.8%	-53.8%	-43.1%	-47.1%	-50.6%	-53.4%
13	-5.4%	-3.8%	-0.6%	-4.9%	-9.1%	-4.6%	-6.5%	-6.0%	-7.7%
14	30.6%	33.5%	31.1%	31.6%	27.4%	31.4%	34.8%	30.7%	24.4%
15	25.5%	31.4%	32.5%	26.0%	21.8%	24.5%	24.1%	23.0%	20.6%
16	3.1%	6.2%	8.4%	2.5%	-1.2%	2.1%	7.6%	1.3%	-1.7%
17	-12.8%	-7.6%	-4.2%	-13.7%	-16.7%	-14.7%	-13.9%	-16.3%	-15.3%
18	-0.3%	1.2%	2.1%	-0.7%	-4.7%	-0.9%	5.6%	-1.3%	-3.9%
19	1.5%	4.9%	3.8%	2.3%	-1.9%	2.4%	0.9%	0.7%	-1.0%
20	47.5%	49.6%	50.3%	48.8%	45.0%	47.5%	48.0%	47.7%	43.1%
21	16.7%	20.2%	25.5%	17.2%	12.7%	14.9%	13.9%	13.5%	15.5%
22	27.0%	30.8%	32.1%	28.3%	23.4%	26.6%	28.4%	26.3%	20.3%
23	-21.7%	-18.7%	-17.6%	-19.2%	-24.8%	-21.8%	-22.1%	-24.0%	-25.3%
24 25	-7.4% 1.8%	-4.5% 3.5%	-2.5% 2.7%	-4.5% 4.4%	-10.6% -1.4%	-7.5% 3.0%	-8.2% 2.4%	-9.0% 1.6%	-12.5% -2.0%
26	-2.7%	-1.0%	2.0%	-3.9%	-1.4%	-0.6%	-2.7%	-3.6%	-2.0% -5.3%
27	-12.0%	-9.6%	-10.3%	-9.8%	-15.2%	-11.2%	-2.7 % -11.0%	-3.4%	-15.8%
28	-2.3%	-0.1%	-0.4%	1.0%	-5.5%	-2.0%	-2.5%	-3.7%	-5.4%
29	-13.1%	-10.9%	-10.0%	-10.7%	-16.7%	-12.8%	-13.4%	-14.1%	-16.3%
30	-27.6%	-25.2%	-24.3%	-25.0%	-30.2%	-27.7%	-27.6%	-29.8%	-30.6%
31	-19.6%	-17.8%	-14.4%	-17.2%	-21.5%	-21.8%	-22.4%	-21.9%	-19.5%
32	-18.5%	-17.6%	-14.6%	-15.8%	-18.6%	-20.0%	-21.2%	-21.5%	-18.4%
33	-13.6%	-9.0%	-11.5%	-12.0%	-17.8%	-12.9%	-14.0%	-15.0%	-16.4%
34	-8.2%	-6.0%	-3.2%	-5.8%	-10.5%	-10.0%	-10.7%	-10.6%	-8.6%
35	-34.3%	-31.9%	-28.9%	-32.7%	-35.9%	-36.3%	-36.6%	-37.1%	-34.9%
36	-29.6%	-25.4%	-26.3%	-27.1%	-31.4%	-30.7%	-31.2%	-32.9%	-31.5%
37	-7.0%	-4.5%	-9.0%	-4.0%	-9.7%	-4.3%	-4.5%	-7.1%	-13.2%
38	-2.9%	-1.4%	-2.3%	0.9%	-5.7%	-1.7%	-1.9%	-3.4%	-8.0%
39	23.1%	24.7%	22.8%	26.8%	21.1%	25.2%	23.5%	23.3%	17.5%
40	-18.5%	-14.6%	-14.9%	-15.6%	-20.9%	-19.1%	-19.9%	-21.8%	-20.9%
41	-30.6%	-28.7%	-28.4%	-27.2%	-32.3%	-31.2%	-30.8%	-33.0%	-33.4%
42	-45.8%	-42.9%	-44.8%	-43.3%	-47.3%	-46.2%	-46.1%	-48.4%	-47.7%
43	7.4%	10.4%	7.0%	12.3%	4.3%	9.0%	7.6%	7.2%	1.3%
44	19.3%	22.3%	21.7%	22.9%	16.4%	19.7%	18.1%	18.2%	14.9%
45	27.0%	29.4%	29.5%	30.0%	24.3%	27.3%	25.1%	26.4%	23.9%
46	-7.1%	-12.6%	-1.4%	-5.0%	-8.5%	-6.9%	-11.4%	-7.1%	-3.8%
47	24.6%	16.3%	33.4%	26.5%	23.1%	23.8%	19.9%	24.1%	29.3%
48	20.1%	15.2%	23.5%	23.5%	21.2%	17.8%	17.7%	20.2%	21.9%
49	-28.9%	-25.4%	-27.3%	-29.8%	Electi <del>onRe</del> %ults	-25.1%	-30.0%	-30.8%	-30.2% Page 1 of 2

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State : Differential	2018 CU Regent at Large Differential	2020 Senate Differential
50	-6.2%	-10.8%	-3.5%	-2.7%	-4.4%	-13.6%	-6.8%	-4.1%	-3.7%
51	11.4%	13.2%	18.4%	13.0%	7.7%	10.7%	8.8%	10.3%	8.8%
52	-19.1%	-14.0%	-17.2%	-17.1%	-24.1%	-18.3%	-18.6%	-20.2%	-23.2%
53	-44.0%	-36.7%	-40.3%	-45.2%	-49.9%	-43.6%	-44.2%	-47.2%	-45.2%
54	45.0%	45.1%	52.6%	45.6%	40.1%	44.3%	43.9%	42.8%	45.6%
55	23.9%	25.0%	29.5%	25.0%	17.9%	24.8%	24.6%	21.6%	22.7%
56	53.7%	49.4%	58.6%	55.9%	52.6%	53.6%	51.8%	53.7%	53.6%
57	-15.7%	-13.6%	-11.6%	-17.0%	-18.7%	-14.2%	-16.3%	-17.3%	-16.7%
58	12.8%	14.1%	19.7%	12.3%	8.7%	12.7%	11.1%	10.8%	12.8%
59	-2.2%	-0.4%	2.4%	-3.2%	-4.7%	-3.1%	-1.5%	-4.4%	-2.9%
60	37.2%	35.9%	45.5%	37.8%	33.6%	36.7%	33.3%	36.2%	38.4%
61	-0.5%	2.6%	0.3%	2.7%	-3.4%	0.0%	-1.0%	-2.2%	-3.1%
62	-17.0%	-21.5%	-13.4%	-15.9%	-17.2%	-18.0%	-19.9%	-18.8%	-11.7%
63	53.8%	41.4%	58.1%	56.1%	55.4%	54.1%	52.4%	55.7%	57.6%
64	25.5%	22.4%	28.9%	29.4%	25.0%	21.3%	24.4%	27.9%	24.9%
65	25.0%	24.4%	27.5%	26.5%	22.1%	24.8%	24.1%	26.2%	24.8%

Results are reported as the difference between the percent of votes cast for the Republican candidate and the percent of votes cast for the Democratic candidate. A positive differential means the Republican won, and a negative differential means the Democratic candidate.

Source: Data provided by the Colorado Secretary of State's Office. Calculations prepared by Colorado Independent Redistricting Commissions Staff. October 14, 2021

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### Active Registered Voters\* Plan: 2021 Final Approved Senate Plan

District	Republican	Democrat	Minor Party**	Unaffiliated	Total
1	47,340	16,731	1,731	41,728	107,530
2	44.0% 44,358	15.6% 22,167	1.6% 2,090	38.8% 52,857	121,471
3	36.5%	18.2% 40,571	1.7% 2,037	43.5% 42,315	112,414
3	27,491 24.5%	36.1%	1.8%	42,315 37.6%	112,414
4	50,112	25,258	2,461	55,192	133,023
5	37.7% 33,004	19.0% 26,353	1.8% 2,012	41.5% 47,718	109,087
	30.3%	24.2%	1.8%	43.7%	
6	36,702 30.7%	33,845 28.3%	2,124 1.8%	46,883	119,553
7	44,293	18,487	2,156	39.2% 46,608	111,544
	39.7%	16.6%	1.9%	41.8%	
8	31,237 27.1%	28,424 24.7%	2,133 1.8%	53,486 46.4%	115,280
9	47,907	18,738	2,036	50,729	119,409
	40.1%	15.7%	1.7%	42.5%	110.000
10	39,419 34.9%	21,712 19.2%	2,562 2.3%	49,315 43.6%	113,009
11	21,388	23,137	2,551	42,028	89,104
	24.0%	26.0%	2.9%	47.2%	100 ==0
12	29,381 28.4%	24,812 24.0%	2,483 2.4%	46,896 45.3%	103,573
13	22,602	22,544	1,865	38,462	85,473
4.4	26.4%	26.4%	2.2%	45.0%	100 100
14	20,056 18.5%	36,627 33.9%	2,195 2.0%	49,248 45.5%	108,126
15	35,937	32,095	2,211	54,413	124,656
40	28.8%	25.7%	1.8%	43.7%	127,084
16	37,600 29.6%	32,719 25.7%	1,939 1.5%	54,827 43.1%	127,084
17	20,692	40,237	1,836	52,419	115,184
18	18.0% 9,666	34.9% 55,043	1.6% 1,474	45.5% 46,480	112,664
10	8.6%	48.9%	1.3%	41.3%	112,004
19	29,307	35,605	2,036	54,168	121,115
20	24.2% 32,916	29.4% 35,666	1.7% 2,045	44.7% 57,170	127,796
20	25.8%	27.9%	1.6%	44.7%	127,790
21	19,280	31,062	1,892	41,138	93,373
22	20.6% 20,105	33.3% 38,876	2.0% 2,320	44.1% 49,461	110,763
22	18.2%	35.1%	2.1%	44.7%	110,703
23	40,823	22,369	2,043	50,746	115,982
24	35.2% 22,358	19.3% 30,204	1.8% 1,906	43.8% 44,646	99,114
24	22.6%	30.5%	1.9%	45.0%	99,114
25	24,290	34,488	2,057	50,627	111,463
26	21.8% 21,917	30.9% 37,120	1.8% 2,012	45.4% 46,311	107,360
	20.4%	34.6%	1.9%	43.1%	
27	29,900	31,528	1,757	50,865	114,050
28	26.2% 12,681	27.6% 30,884	1.5% 1,720	44.6% 34,429	79,714
	15.9%	38.7%	2.2%	43.2%	
29	17,040 17.5%	37,038 38.1%	1,967 2.0%	41,157 42.3%	97,202
30	42,881	26,744	1,620	54,102	125,348
	34.2%	21.3%	1.3%	43.2%	
31	12,371 10.2%	56,595 46.6%	2,021 1.7%	50,431 41.5%	121,418
32	13,571	43,462	1,932	42,762	101,727
	13.3%	42.7%	1.9%	42.0%	
33	7,025 7.2%	50,649 51.9%	1,536 1.6%	38,433 39.4%	97,644
34	9,335	49,913	2,026	46,177	107,451
25	8.7%	46.5%	1.9%	43.0%	404 750
35	53,923 44.3%	20,022 16.4%	2,140 1.8%	45,667 37.5%	121,752

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<sup>\*</sup>As of June 15, 2021.

\*\*Minor Party registrations include: American Constitution, Approval Voting, Green, Libertarian, and Unity.
Source: Colorado Secretary of State.
October 14, 2021

## Colora**do Independent** Redistr**icting Commissions**

#### Statewide Election Results by District

Plan: Final Senate Plan

District	8 Elections Differential	2016 Senate Differential	2016 President Differential	2018 Attorney General Differential	2018 Governor Differential	2018 Treasurer Differential	2018 Secretary of State Differential	2018 CU Regent at Large Differential	2020 Senate Differential
1	43.8%	34.6%	47.6%	47.2%	45.0%	41.4%	42.7%	46.3%	45.5%
2	23.3%	26.0%	25.9%	26.7%	20.5%	23.7%	21.7%	22.6%	19.6%
3	-5.1%	-10.1%	0.5%	-3.4%	-6.5%	-5.3%	-9.6%	-5.7%	-0.8%
4	23.5%	24.7%	29.8%	24.3%	20.2%	23.3%	21.1%	22.8%	22.0%
5	3.0%	4.5%	8.8%	2.1%	-0.9%	3.6%	1.5%	1.3%	3.1%
6	-0.9%	-0.9%	3.9%	-1.3%	-2.7%	-1.7%	-1.1%	-3.0%	-0.2%
7	33.0%	34.1%	39.7%	33.8%	27.1%	33.1%	32.9%	30.6%	32.4%
8	-6.6%	-4.7%	-1.8%	-7.2%	-10.6%	-5.0%	-6.8%	-7.6%	-8.9%
9	33.4%	36.3%	34.7%	34.7%	30.2%	33.8%	36.4%	33.4%	27.4%
10	23.8%	27.8%	29.1%	24.6%	20.1%	23.3%	25.0%	22.6%	17.7%
11	-2.4%	1.7%	5.4%	-2.9%	-6.2%	-4.0%	-2.8%	-5.3%	-5.3%
12	2.4%	5.2%	7.4%	1.7%	-2.5%	1.0%	6.0%	0.2%	0.5%
13	3.7%	-0.7%	6.8%	7.3%	5.1%	-1.5%	2.1%	4.7%	5.8%
14	-33.3%	-27.3%	-30.6%	-33.1%	-38.7%	-32.7%	-33.1%	-35.5%	-35.7%
15	0.0%	3.0%	5.1%	0.6%	-3.9%	0.8%	-2.4%	-1.3%	-1.7%
16	-0.1%	1.3%	0.6%	3.8%	-3.1%	1.0%	0.8%	-0.5%	-5.0%
17	-29.6%	-24.0%	-28.2%	-29.8%	-33.9%	-26.5%	-29.5%	-31.3%	-33.6%
18	-65.0%	-62.2%	-68.2%	-66.6%	-69.3%	-57.0%	-63.1%	-66.6%	-66.8%
19	-9.2%	-6.1%	-4.7%	-6.4%	-12.5%	-9.4%	-9.9%	-11.0%	-13.4%
20	-7.1%	-5.2%	-5.9%	-4.1%	-10.2%	-6.2%	-6.6%	-8.3%	-10.7%
21	-13.8%	-13.3%	-9.3%	-11.5%	-14.4%	-15.3%	-16.2%	-16.1%	-14.0%
22	-28.4%	-25.3%	-24.3%	-26.8%	-31.4%	-28.3%	-28.5%	-30.7%	-31.7%
23	21.5%	21.7%	24.3%	23.4%	19.0%	21.6%	20.1%	22.1%	20.1%
24	-9.1%	-7.6%	-5.2%	-6.3%	-10.9%	-10.6%	-11.3%	-11.1%	-9.6%
25	-16.0%	-12.9%	-13.0%	-14.1%	-19.6%	-16.0%	-16.5%	-17.3%	-18.8%
26	-25.1%	-22.8%	-25.2%	-22.9%	-27.3%	-23.5%	-23.9%	-26.2%	-29.2%
27	-4.7%	-0.9%	-3.4%	-1.9%	-7.7%	-4.2%	-4.9%	-6.6%	-7.9%
28	-32.4%	-29.1%	-30.3%	-29.8%	-33.8%	-33.0%	-33.3%	-35.4%	-34.5%
29	-29.4%	-26.9%	-26.9%	-26.2%	-31.4%	-30.0%	-30.1%	-32.1%	-31.9%
30	11.7%	14.2%	11.1%	16.1%	9.0%	13.5%	12.1%	11.6%	6.2%
31	-60.4%	-57.8%	-64.1%	-60.3%	-63.2%	-57.0%	-56.6%	-61.9%	-62.5%
32	-46.8%	-43.7%	-46.9%	-45.5%	-49.4%	-45.8%	-45.8%	-48.9%	-48.7%
33	-70.8%	-67.8%	-74.3%	-70.0%	-72.7%	-69.3%	-69.1%	-73.2%	-69.9%
34	-63.9%	-60.7%	-66.1%	-64.4%	-66.7%	-61.3%	-62.3%	-66.5%	-63.3%
35	44.8%	39.8%	50.5%	46.6%	43.5%	44.5%	42.4%	44.8%	46.1%

Results are reported as the difference between the percent of votes cast for the Republican candidate and the percent of votes cast for the Democratic candidate. A positive differential means the Republican won, and a negative differential means the Democrat won.

Source: Data provided by the Colorado Secretary of State's Office. Calculations prepared by Colorado Independent Redistricting Commissions Staff. October 14, 2021

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In re Colorado Independent Legislative Redistricting Commission

### Exhibit 14

Report of Dr. Jeanne Clelland, et al.

# Ensemble Analysis for 2021 State Legislative Redistricting in Colorado

Jeanne Clelland, Daryl DeFord, Beth Malmskog, and Flavia Sancier-Barbosa

September 26, 2021

#### Abstract

In this report, we apply techniques of ensemble analysis to establish a baseline context for State Legislative redistricting in Colorado following the 2020 Census. We generate large random samples of redistricting plans for the State Senate and State House that meet the basic legal requirements established by Amendment Z. Using these samples, we establish "reasonable" ranges for what might be expected for minority population, competitive districts, and partisan seat share for plans generated without explicit consideration of these issues. We also explore how these various priorities interact; in particular, we explore how the constitutional imperative to keep counties whole as much as possible affects both the ability to maximize the number of competitive districts and the expected range for partisan seat share. Finally, we compare the First and Second Staff Plans for the State Senate and State House proposed by the Colorado Independent Legislative Redistricting Commission's nonpartisan staff to our ensembles and comment on their performance relative to the ensembles.

### 1 Introduction

In the years since the last decennial redistricting cycle, there has been much interest in—and litigation around—quantifying and identifying partisan bias in district plans. Unlike racial gerrymandering, which has historically been limited by the Voting Rights Act of 1965, partisan gerrymandering has largely been unchecked by the courts until fairly recently, primarily due to the difficulty of identifying a quantifiable standard for measuring it.

One recently developed strategy for quantifying partisan bias is the idea of "ensemble analysis," in which a particular district plan is compared to a large collection of randomly generated, legally valid plans, referred to as an "ensemble" of plans. This idea has been gaining traction in redistricting litigation in the last few years. For instance, Jonathan Mattingly, et. al. performed detailed

<sup>\*</sup>The first author was partially supported by a Collaboration Grant for Mathematicians from the Simons Foundation.

ensemble analyses of North Carolina's Congressional [9] and state [10] legislative district plans that played key roles in the court cases [3] and [2], and Moon Duchin's ensemble analysis [8] of Pennsylvania's Congressional Districts played a similar role in [1]. Similar work can be found in Wesley Pegden's expert reports for Pennsylvania [11] and North Carolina [12].

The primary aim of our work is to use ensemble analysis to establish a baseline context for State Legislative redistricting in Colorado in 2021, in order to understand what might reasonably be expected for measures such as minority population, competitive districts, and partisan seat share, based on the state's unique political geography. This baseline may then be applied to evaluate proposed district plans under consideration by the Colorado Independent Congressional Legislative Commission to ensure that they satisfy the requirements specified by Amendment Z to the Colorado Constitution.

Here and throughout this report, we wish to emphasize that **none of the plans in our ensembles** are intended for adoption. Redistricting is fundamentally a human endeavor, and there are many important considerations that are difficult or impossible to fully incorporate into a computer-generated ensemble. The ensembles that we will discuss here are intended **only** to provide context to which proposed plans may be compared with regard to specific quantitative measures.

Additionally, we want to make the following points clear at the outset:

- The goal of ensemble analysis is **not** to identify a single "best" value for any measure (e.g., number of competitive districts, or numbers of seats won by each party), but rather to identify a **range** of values that would be reasonably likely for plans drawn without taking any partisan data into account. This analysis only raises concerns when a proposed plan is an **extreme outlier** relative to the range of values seen in an ensemble.
- Despite the ubiquity of descriptions such as, "this plan has X Democratic districts and Y Republican districts," this analysis does **not** predict future election outcomes or flag particular election outcomes as extreme. The election data used to evaluate plans for competitive districts and partisan seat share is based on past, **statewide** elections, whereas outcomes for future local, district-based elections may vary widely from those for statewide elections, depending on a variety of factors such as incumbent effects, candidate availability, and issues of particular local concern. Rather, the goal of this analysis is to identify **district plans** that may produce atypical outcomes across a variety of elections of different types.
- Because we cannot model all considerations that the Commission may take into account when drawing maps, plans that appear to be extreme outliers compared to an ensemble may in fact have perfectly reasonable explanations for their deviation from the ensemble. For example, drawing districts informed by the goals of satisfying the requirements of the Voting Rights Act, preserving communities of interest, and maximizing the number of competitive districts

may affect plans in ways that are not well represented by our ensembles. In such cases, more information about the design criteria may be required in order to evaluate a plan on its merits.

### 2 Introduction to ensemble analysis

In this section we give a brief description of the main ideas and aims of ensemble analysis. For a more detailed treatment of our approach and methodology, please see our paper [5] and Appendix A.

The fundamental goal of ensemble analysis is to model the political geography of a region (in this case, the state of Colorado) in order to better understand what might be expected for a "typical" district plan for the state. Plans may be evaluated with regard to a variety of measures: partisan balance of election results, geographic compactness of districts, competitiveness of district elections, preservation of communities of interest, racial/ethnic population within districts, etc. The main idea is to create a large number of randomly generated, valid plans that satisfy all relevant legal constraints—an "ensemble" of plans. Measures of interest are then computed for each plan in the ensemble using real population and voting data. The result is a statistical range of possible outcomes for each measure, to which any proposed plan may be compared. If a proposed plan appears to be an extreme outlier compared to the ensemble, this may suggest that factors not included in the ensemble design may have played an important role in the plan's construction. Such factors may be desirable (e.g., preservation of communities of interest) or not (e.g., partisan gerrymandering).

For this type of analysis, it is natural to build districts from voting precincts, as these are the smallest geographic units for which voting data is readily available. This is just one of many reasons why the plans in our ensemble are generally unsuitable for adoption; the final plans will almost certainly divide many precincts in order to achieve their aims.

Our construction of ensembles begins with a data-rich map of Colorado's voting precincts as of 2020. Details of our processes for data collection and construction of this map are described in Appendix A.1, and details of the algorithms used to build our ensembles are described in Appendix A.2. For this initial analysis, for each chamber (Senate and House) we constructed three ensembles of 2,000,000 random maps each, incorporating some of the most fundamental constitutional requirements:

- Contiguity: The algorithm used to generate district plans automatically guarantees district contiguity; see Appendix A.2 for more details.
- **Population equality:** We have required that all plans in our ensembles have a population deviation of 5% or less between the least- and most-populous districts, as required by Amendment Z.

- Compactness: The algorithm used to generate district plans is designed to preferentially sample from more compact plans, and a large body of experimental evidence indicates that it is generally very effective in this endeavor. (See, e.g., [6].) No specific metric for measuring compactness is prescribed by Amendment Z, and we did not explicitly track any quantitative measure of district compactness. However, we have included a few of our randomly generated maps in Appendix A.2 to illustrate that their districts are generally reasonably compact.
- Preservation of political subdivisions and communities of interest: Our first ensemble, which we shall refer to as "county-neutral," did not incorporate any information regarding political subdivisions such as cities or counties or other communities of interest. Our second ensemble, which we shall refer to as "county-aware," added an algorithm described in Appendix A.2 to minimize the number of county splits. Our third ensemble, which we shall refer to as "tailored county-aware," used the county-aware algorithm and incorporated two additional constraints, based on input from the Commission:
  - 1. Plans in this ensemble never split any of the 27 counties with a 2020 Census population of 10,000 or less.
  - 2. Plans in this ensemble never split four communities of interest identified by the Commission:
    - the counties of Sedgwick, Phillips, Logan, Morgan, Washington, and Yuma in Northeast Colorado;
    - the counties of Saguache, Alamosa, Rio Grande, Conejos, Costilla, and Mineral in the San Luis Valley;
    - the counties of Archuleta, LaPlata, San Juan, and as much of Montezuma as possible, keeping the individual tribes whole;
    - the Roaring Fork Valley, including the communities of Aspen, Basalt, El Jebel,
       Carbondale, Glenwood Springs, Rifle, Silt, and Parachute.

Comparing statistics across these three ensembles will help to quantify how prioritizing the preservation of these subdivisions and communities of interest affects other priorities, such as the ability to draw competitive districts.

In Sections 3 and 5, we will explore how our county-neutral, county-aware, and tailored county-aware ensembles of plans for the State Senate and State House, respectively, typically perform on the measures of county splits, minority representation, competitive districts, and partisan seat share. For the latter two metrics, we will focus on the composite "election" obtained by averaging partisan outcomes for the 8 statewide elections between 2016 and 2020 that have been identified by the Commission, specifically:

- the elections for President and U.S. Senator in 2016;
- the elections for Attorney General, Governor, Regent At Large, Secretary of State, and Treasurer in 2018;
- the election for U.S. Senator in 2020.

Then in Sections 4 and 6, we will provide detailed comparisons of the First and Second Staff Plans for each chamber to these ensembles.

Before embarking on separate analyses for each chamber, we will conclude this section with some general discussion about each of these metrics.

#### 2.1 County splits

For each ensemble, we counted the numbers of county splits in each plan in two ways:

- 1. numbers of "counties split," which count the numbers of counties divided between more than one district;
- 2. numbers of "total county splits," which count the numbers of times counties are split.

So, e.g., if a county is divided between three districts, this counts as one split towards the "counties split" measure and two splits for the "total county splits" measure.

This measure will be primarily used to understand how plans in the county-neutral, county-aware, and tailored county-aware ensembles typically compare to human-drawn plans (as exemplified by the Staff Plans) regarding county splits. By computing other statistics of interest for all three ensembles, we hope to better understand how the choice to preserve counties and certain communities of interest affects other redistricting priorities.

#### 2.2 Minority representation

After contiguity, population equality, and the Voting Rights Act, the next highest priority specified by Amendment Z (co-equal with district compactness and preservation of political subdivisions) is the preservation of communities of interest. This is perhaps the most difficult criterion to model algorithmically, as communities of interest vary widely in nature and in geographic extent, and many different types of communities of interest overlap in complicated ways. Even in our tailored county-aware ensemble, we were only able to take into account a few communities of interest with clearly defined geographic boundaries that the Commission identified as high-priority.

One very significant community of interest that does not have such clearly defined geographic boundaries is the minority population of the state. We will examine the proportions of (1) Hispanic voting age population, and (2) Non-White voting age population within each district

in our ensembles. For context, we note that for the state as a whole, the Hispanic voting age population is approximately 19.2% of the total voting age population, and the Non-White voting age population is approximately 26.6% of the total voting age population. We have not received specific direction from the Commission regarding the creation of majority-minority districts, and so we have not attempted to incorporate any such criteria into our ensembles; however, there is still general agreement that districts should be drawn so as to give these communities adequate representation.

#### 2.3 Competitive districts

Competitive districts are defined in Amendment Z as "having a reasonable potential for the party affiliation of the district's representative to change at least once between federal decennial censuses." The lack of a quantitative standard in this definition has led to much discussion regarding the adoption of a standard for determining which districts will be considered competitive, and the Commission has decided to base its measure of competitiveness on an average of partisan outcomes (based only on votes for Democratic and Republican candidates) from 8 statewide elections from 2016 through 2020:

- the elections for President and U.S. Senator in 2016;
- the elections for Attorney General, Governor, Regent At Large, Secretary of State, and Treasurer in 2018:
- the election for U.S. Senator in 2020.

Each of these elections is given equal weight, creating a "composite election" whose Democratic and Republican vote percentages in each district are equal to the averages of the Democratic and Republican vote percentages, respectively, for these 8 elections in that district.

A typical measure of competitiveness involves prescribing a "vote band" about the 50% mark, and any election whose Democratic and Republican vote shares fall within that band is considered competitive. The Commission has adopted an 8.5% vote band, so that any election for which the Democratic and Republican vote shares fall between 45.75% and 54.25% is considered competitive.

#### 2.4 Partisan seat share

Partisan seat share—i.e., the number of seats won by each political party in a particular election—is not one of the considerations prescribed by Amendment Z for district plans, but it is perhaps the outcome that is of the greatest interest to the most people. We will conclude our discussion for each chamber with a description of ensemble statistics for this measure.

# 3 Ensemble statistics for the State Senate

The goal of this section is to describe the main statistical properties of our county-neutral, county-aware, and tailored county-aware ensembles in order to establish context for what might reasonably be expected for State Senate district plans in Colorado. In Section 4, we will provide a detailed comparison of the First and Second Staff Plans to these ensembles.

# 3.1 County splits

The histograms in Figure 1 describe what percentage of plans in each ensemble exhibited each value for the number of counties split and the number of total county splits over the observed ranges.

- For the county-neutral ensemble, the mean number of counties split was 31.3 and the mean number of total splits was 94.3.
- For the county-aware ensemble, the mean number of counties split was 18.7 and the mean number of total splits was 55.7.
- For the tailored county-aware ensemble, the mean number of counties split was 17.7 and the mean number of total splits was 40.8.

We note that even for the tailored county-aware ensemble, our algorithm does not minimize the number of counties split quite as well as the First and Second Staff Plans, which split 11 and 13 counties, respectively. It more closely approximates the number of total county splits in the Staff Plans, with 37 and 43 total county splits, respectively.<sup>1</sup>

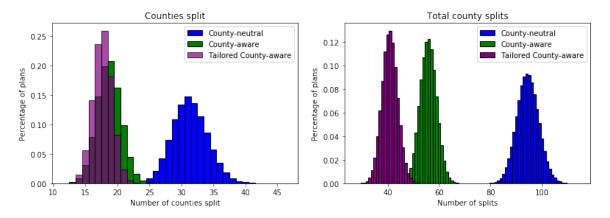


Figure 1: Counties split and total county splits for ensembles for State Senate

<sup>&</sup>lt;sup>1</sup>These numbers were computed from approximations of the Staff Plans by districts made from whole precincts, and they may be slightly off from the true numbers.

# 3.2 Minority representation

For each plan in our ensembles, we computed the percentages of the Hispanic and Non-White voting age populations as a fraction of the total voting age population in each district and recorded the results. This data is displayed in Figures 2 and 3, organized as follows: For each plan, districts are sorted by Hispanic (resp., Non-White) voting age population percentage, from lowest to highest. The box plots show the ranges of these percentages for the sorted districts (in blue for the county-neutral ensemble, green for the county-aware ensemble, and purple for the tailored county-aware ensemble)—so, e.g., the second pair of boxes from the left shows the range of Hispanic (resp., Non-White) voting age population percentage in the second-lowest district in each plan. The boxes show the middle 50% of the range, and the whiskers extend from the 1st percentile through the 99th.

Additionally, because displaying all 35 districts in a single plot is somewhat unwieldy, we have also broken out the top 15 districts (highlighted with a green box in the full plot) into a separate plot below, with districts numbered from lowest to highest Hispanic (resp., Non-White) voting age population, using the numbers from the full sorted list of districts.

From these plots, we see that the preservation of counties and communities of interest has a very limited impact on the observed ranges for the minority populations of various districts. Furthermore, the observed ranges for districts with higher minority populations are fairly large, indicating that a wide range of values may occur in plans drawn without taking minority population into account.

#### 3.3 Competitive districts

The histograms in Figure 4 describe what percentage of plans in each ensemble have each possible number of competitive districts according to the Commission's definition.

The mean numbers of competitive districts are 8.30, 8.13, and 8.98 for the county-neutral, county-aware, and tailored county-aware ensembles, respectively. Constraining county splits, at least within the ranges achieved by our ensembles, appears to have limited impact on the observed numbers of competitive districts, suggesting that it may not substantially affect the ability to draw competitive districts. However, since our ensembles did not achieve county split levels as low as the Staff Plans, we cannot say for certain whether this remains true for plans with fewer county splits than those in our ensembles.

For a more nuanced view on competitiveness, it is instructive to examine partisan outcomes by district. The box plots in Figure 5 are constructed similarly to those in Figures 2 and 3, except that now the boxes measure the observed ranges of Democratic vote share for each plan in the ensembles, ordered from most Republican to most Democratic. Also included in this plot are

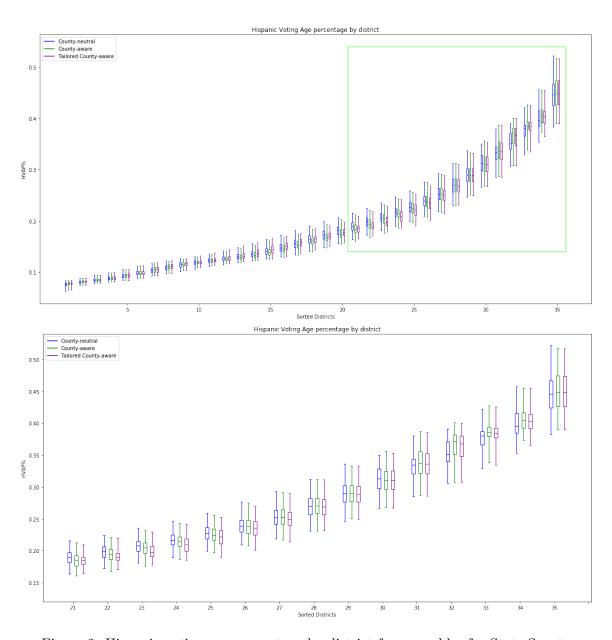


Figure 2: Hispanic voting age percentage by district for ensembles for State Senate

horizontal lines at the 50% mark and at the boundaries of the 8.5% vote band for reference. From this figure we can make the following observations:

- The 8 most Republican and 13 most Democratic districts are essentially never competitive.
- The 9th most Republican district is competitive at the upper extreme of the county-neutral ensemble but very rarely in the county-aware and tailored county-aware ensembles, while the 14th most Democratic district is competitive at the lower extreme of the county-aware and

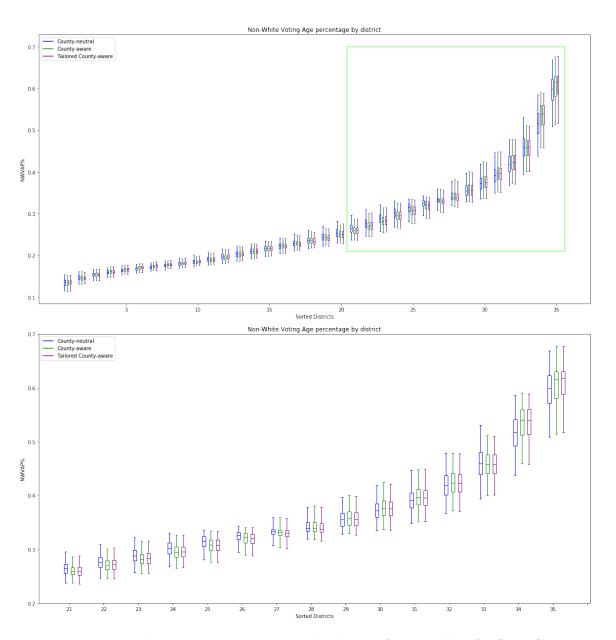


Figure 3: Non-White voting age percentage by district for ensembles for State Senate

tailored county-aware ensembles, but very rarely in the county-neutral ensemble.

- The 10th most Republican district and the 15th most Democratic district are occasionally competitive in all three ensembles.
- The 11th most Republican district is competitive about half the time in the county-neutral and tailored county-aware ensembles, and somewhat less often in the county-aware ensemble, while the 16th most Democratic district is competitive about half the time in the county-aware and tailored county-aware ensembles, and somewhat less often in the county-neutral

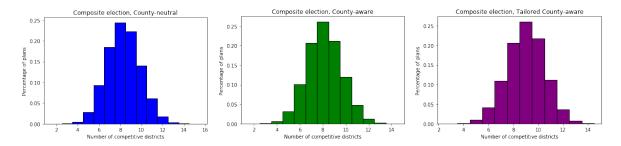


Figure 4: Numbers of competitive districts for ensembles for State Senate

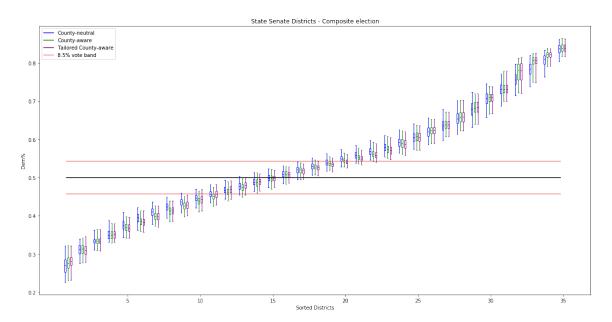


Figure 5: Democratic vote shares by district for ensembles for State Senate, with competitiveness vote band

ensemble.

• The 12th most Republican through 17th most Democratic districts (numbers 12 through 19 in the sorted list) are usually competitive in all three ensembles.

#### 3.4 Partisan seat share

The histograms in Figure 6 describe what percentage of plans in each ensemble result in each possible number of Democratic seats won in the composite election. (The corresponding histograms for the numbers of Republican seats won would be the mirror images of the ones shown here.)

The most common outcomes in all three ensembles are 20 and 21 Democratic seats, with the latter outcome being slightly more common in the county-neutral ensemble than in the other

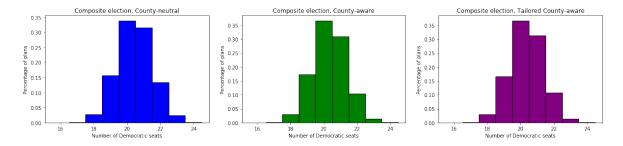


Figure 6: Numbers of Democratic seats won in composite election for ensembles for State Senate

two ensembles. The mean numbers of Democratic seats in the county-neutral, county-aware, and tailored county-aware ensembles are 20.45, 20.33, and 20.35, respectively.

As for competitive districts, we can see a more nuanced picture in the box plots of Figure 5. The districts numbered 13 through 17 in the sorted list might be considered "toss-up" districts, as their vote shares are, to varying degrees, reasonably likely to lie on either side of the 50% line. The variability of outcomes in these districts is responsible for the range of outcomes seen in the histograms in Figure 5.

# 4 Comparison of First and Second Staff Plans for State Senate to ensembles

On September 13, 2021, the Commission's nonpartisan staff released the First Staff Plan for State Senate districts, and on September 23, 2021, the Second Staff Plan was released. In this section we compare these plans to our ensembles for the measures described in the Section 3.

We wish to emphasize yet again that the Staff Plans are **absolutely not expected to be at or near the mean values** for either ensemble with respect to all the measures that we have computed. Even if the plans were drawn entirely randomly, about half of their computed values would be expected to lie outside the middle 50% range for the ensemble. Furthermore, the Commission and nonpartisan staff are not attempting to draw completely average plans, but rather to fulfill the Constitutional requirements that dictate that they attempt to preserve communities of interest and maximize the number of competitive districts. The comparison given here between the Staff Plans and our ensembles is intended **only** to provide context which may be used by the Commission as just one of many measures to evaluate the Staff Plans.

#### 4.1 Minority representation

In Figures 7 and 8, we add the values for the Senate districts in the First and Second Staff Plans for the Hispanic voting age population and Non-White voting age population, respectively, to the

box plots from Figures 2 and 3, showing only the top 20 districts in each case.

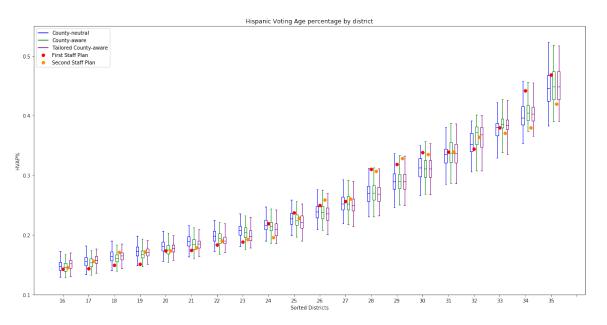


Figure 7: Hispanic voting age percentage by district for ensembles and Staff Plans for State Senate

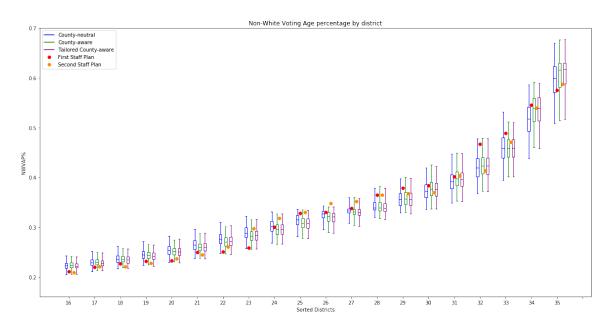


Figure 8: Non-White voting age percentage by district for ensembles and Staff Plans for State Senate

We do not see any extreme outliers with respect to either Hispanic or Non-White voting age populations. Both Staff Plans have 8 Senate districts with Hispanic voting age population above 30%, and the populations in the 7th and 8th highest districts are substantially above the means

for all three ensembles, particularly in the Second Staff Plan. There is a substantial drop between the 8th and 9th highest districts, which suggests that the Staff Plans may have been deliberately designed to achieve 8 districts above this threshold. We also note that the two districts with the highest Hispanic voting age population have substantially higher percentages (46.8% and 44.2%) in the First Staff Plan than in the Second Staff Plan (41.9% and 38.0%).

Staff Plan 1 has 12 districts with Non-White voting age population above 29% and total Non-White population above 30%, and Staff Plan 2 has 13 such districts. The Non-White voting age population in the 13th highest district in the Second Staff Plan is slightly above the middle 50% for all three ensembles, but it is not an outlier. There is a substantial drop between the 13th and 14th highest districts in the Second Staff Plan (and between the 12th and 13th highest districts in the First Staff plan), which suggests that the Staff Plans may have been deliberately designed to achieve 12 and 13 districts, respectively, above this threshold.

#### 4.2 Competitive districts

In Figure 9, we have added the values for the districts in the First and Second Staff Plans for the number of competitive districts to the histograms from Figure 4.

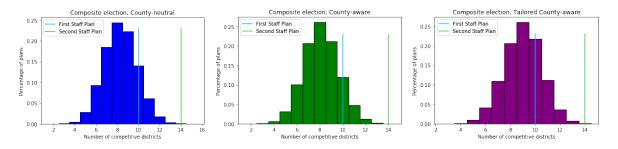


Figure 9: Numbers of competitive seats for ensembles and Staff Plans for State Senate

The First Staff Plan contains 10 competitive districts, which is slightly above the mean for all three ensembles. The Second Staff Plan contains 14 competitive districts, which is an extreme outlier for all three ensembles. However, since Amendment Z directs the Commission to maximize the number of competitive districts, this does not raise any concerns; rather, it indicates that this plan does an exceptional job of satisfying this constitutional priority.

In Figure 10, we have added the values for the districts in the First and Second Staff Plans to the box plots for the Democratic vote share for the composite election from Figure 5. We have also broken out the districts in the range from the 9th most Republican to the 14th most Democratic districts into a separate plot, as these are the districts with the potential to be competitive.

Here we can see clearly how the Second Staff Plan has improved upon the First Staff Plan by increasing the Democratic percentages in the most Republican districts in this range and increasing

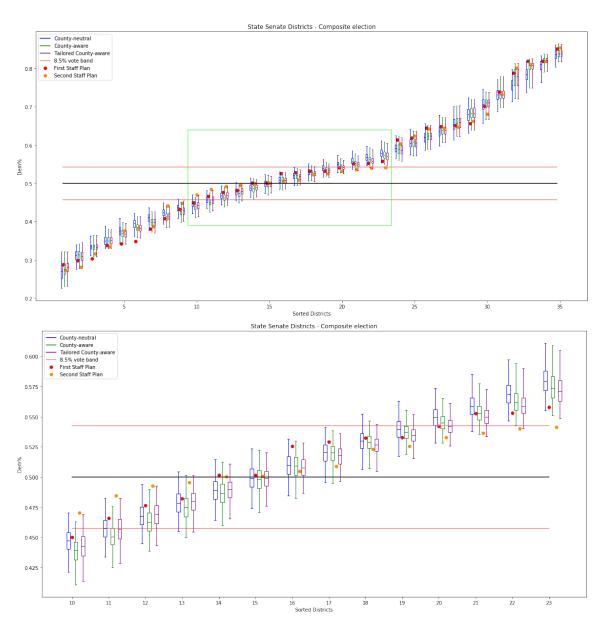


Figure 10: Democratic vote shares by district for ensembles and Staff Plans for State Senate, with competitiveness vote band

the Republican percentages in the most Democratic districts in this range, thereby creating some districts that are fairly extreme outliers relative to all three ensembles.

## 4.3 Partisan seat share

Finally, we compare the First and Second Staff Plans to our ensembles regarding partisan seat share. In Figure 11, we have added the values for the districts in both Staff Plans for the number

of Democratic seats in the composite election to the histograms from Figure 6.

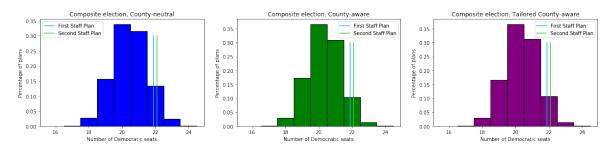


Figure 11: Numbers of Democratic seats won in ensembles and Staff Plans for State Senate

Both Staff Plans produce 22 Democratic seats, which is slightly above the mean for all ensembles, but still well within the range of reasonable outcomes. Moreover, as we can see from Figure 10, the bottom 2 Democratic seats are extremely competitive, with Democratic vote shares of 50.15% each in the First Staff Plan and Democratic vote shares of 50.05% and 50.10% in the Second Staff Plan. So these seats might reasonably be viewed as "toss-up" seats rather than either Democratic or Republican.

In order to explore this idea of "toss-up seats" further, we considered the range of partisan outcomes for the 8 statewide elections included in the composite election. Statewide Democratic vote shares for these elections ranged from 52.7% (President 2016) to 55.2% (Governor 2018), with an average for the composite election of 54.0%. This means that across these 8 elections, Democratic vote shares for the average district ranged from 1.3% below to 1.2% above the figure reported for the composite election. In particular, a typical district with reported Democratic vote share between 48.7% and 51.2% probably experienced majority votes for both parties at some point during these 8 elections.

With this in mind, we decided to explore an alternative classification of district-based partisan outcomes into three categories based on a 3% vote band about 50%:

- 1. Democratic: Democratic vote share of 51.5% or more;
- 2. Republican: Democratic vote share of 48.5% or less;
- 3. Toss-up: Democratic vote share between 48.5% and 51.5%.

The histograms in Figure 12 describe what percentage of plans in each ensemble fall into each of these three categories, with the values for the First and Second Staff Plans included for comparison.

These pictures tell an interesting story; the First Staff Plan is at or within one seat of the most common outcomes for all ensembles with respect to the numbers Democratic, Republican, and toss-up seats. The Second Staff Plan, on the other hand, has an extremely high number of toss-up seats, and consequently falls one or two seats below the ensemble means for both Democratic and

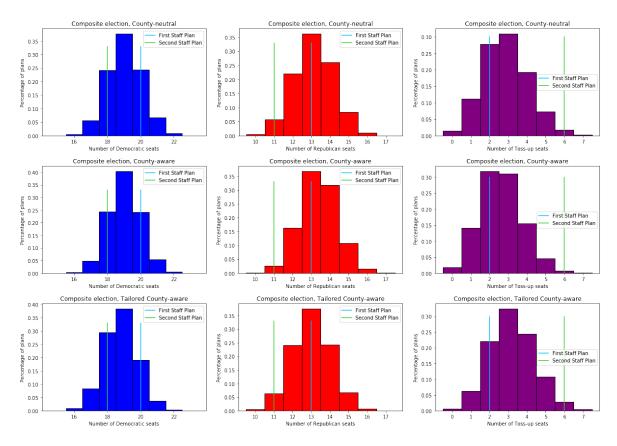


Figure 12: Numbers of Democratic, Republican, and Toss-up seats in ensembles and Staff Plans for State Senate

Republican seats. This indicates that the Second Staff Plan not only produces an unusual number of competitive seats within the 8.5% vote band chosen by the Commission, but it also produces an unusual number of **highly** competitive seats, as measured by the stricter 3% vote band that we have used to categorize toss-up seats.

## 5 Ensemble statistics for the State House

The goal of this section is to describe the main statistical properties of our county-neutral, county-aware, and tailored county-aware ensembles in order to establish context for what might reasonably be expected for State House district plans in Colorado. In Section 6, we will provide a detailed comparison of the First and Second Staff Plans to these ensembles.

#### 5.1 County splits

The histograms in Figure 13 describe what percentage of plans in each ensemble exhibited each value for the number of counties split and the number of total county splits over the observed

ranges. For the county-neutral ensemble, the mean number of counties split was 36.9 and the mean number of total splits was 140.3. For the county-aware ensemble, the mean number of counties split was 23.4 and the mean number of total splits was 91.1. For the tailored county-aware ensemble, the mean number of counties split was 20.0 and the mean number of total splits was 74.7.

By comparison, the First and Second Staff Plans, split 18 and 14 counties respectively, and they have 77 and 74 total county splits respectively.<sup>2</sup> This suggests that the tailored county-aware ensemble does a fairly reasonable job of sampling from plans that prioritize keeping counties whole to a similar degree as typical human-drawn plans.

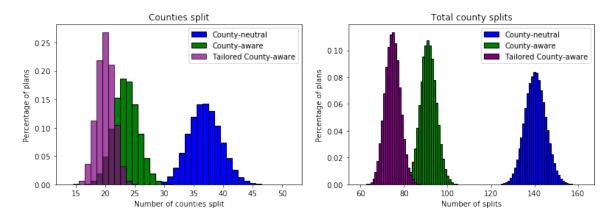


Figure 13: Counties split and total county splits for ensembles for State House

## 5.2 Minority representation

For each plan in our ensembles, we computed the percentages of the Hispanic and Non-White voting age populations as a fraction of the total voting age population in each district and recorded the results. This data is displayed in Figures 14 and 15, organized as follows: For each plan, districts are sorted by Hispanic (resp., Non-White) voting age population percentage, from lowest to highest. The box plots show the ranges of these percentages for the sorted districts (in blue for the county-neutral ensemble, green for the county-aware ensemble, and purple for the tailored county-aware ensemble)—so, e.g., the second pair of boxes from the left shows the range of Hispanic (resp., Non-White) voting age population percentage in the second-lowest district in each plan. The boxes show the middle 50% of the range, and the whiskers extend from the 1st percentile through the 99th.

Additionally, because displaying all 65 districts in a single plot is somewhat unwieldy, we have also broken out the top 20 districts (highlighted with a green box in the full plot) into a separate

<sup>&</sup>lt;sup>2</sup>These numbers were computed from approximations of the Staff Plans by districts made from whole precincts, and they may be slightly off from the true numbers.

plot below, with districts numbered from lowest to highest Hispanic (resp., Non-White) voting age population, using the numbers from the full sorted list of districts.

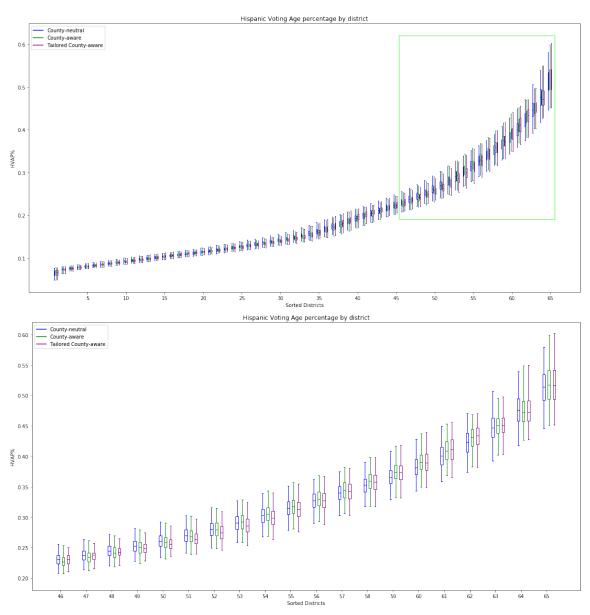


Figure 14: Hispanic voting age percentage by district for ensembles for State House

The only significant difference between the ensembles occurs for the district with the highest Non-White voting age population (and, to a lesser extent, for the second-highest district), where the county-aware and tailored county-aware ensembles tend to have higher percentages than the county-neutral ensemble. For both Hispanic and Non-White voting age populations, the observed ranges for districts with higher minority populations are fairly large, indicating that a wide range of values may occur in plans drawn without taking minority population into account.

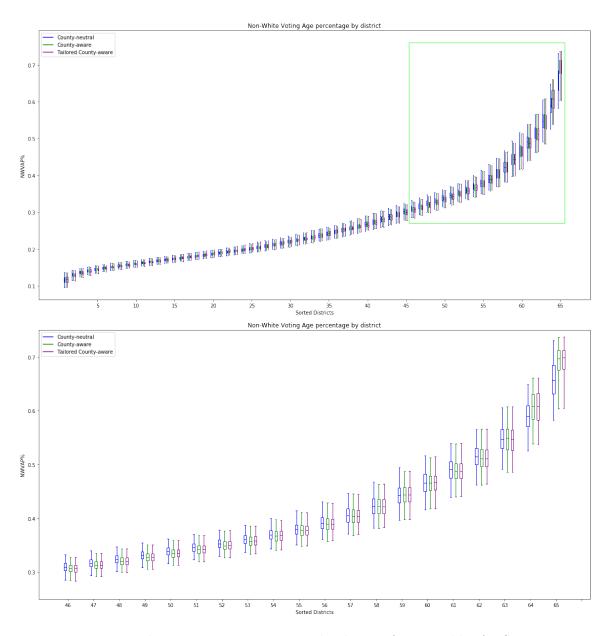


Figure 15: Non-White voting age percentage by district for ensembles for State House

#### 5.3 Competitive districts

The histograms in Figure 16 describe what percentage of plans in each ensemble have each possible number of competitive districts according to the Commission's definition.

The mean numbers of competitive districts are 14.40, 13.93, and 13.63 for the county-neutral, county-aware, and tailored county-aware ensembles, respectively. Constraining county splits, at least within the ranges achieved by our ensembles, appears to have only a modest impact on the observed numbers of competitive districts, with plans with fewer county splits having slightly fewer

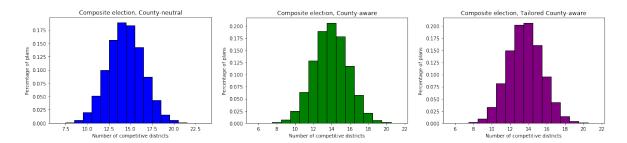


Figure 16: Numbers of competitive districts for ensembles for State House

competitive districts on average. Additionally, the range of reasonable values within each ensemble is much larger than this small difference between the ensemble means, so in practice this suggests that constraining county splits may not substantially affect the ability to draw competitive districts.

For a more nuanced view on competitiveness, it is instructive to examine partisan outcomes by district. The box plots in Figure 17 are constructed similarly to those in Figures 14 and 15, except that now the boxes measure the observed ranges of Democratic vote share for each plan in the ensembles, ordered from most Republican to most Democratic. Also included in this plot are horizontal lines at the 50% mark and at the boundaries of the 8.5% vote band for reference.

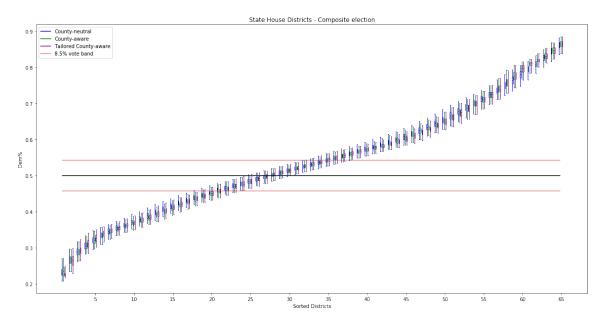


Figure 17: Democratic vote shares by district for ensembles for State House, with competitiveness vote band

From this figure we can make the following observations:

• The 17 most Republican and 27 most Democratic districts are essentially never competitive.

- The 18th most Republican district is competitive at the upper extreme of the county-neutral ensemble but very rarely in the county-aware and tailored county-aware ensembles, while the 28th most Democratic district is competitive at the lower extreme of the county-neutral and county-aware ensembles, but very rarely in the tailored county-aware ensemble.
- The 19th and 20th most Republican districts and the 29th and 30th most Democratic district are occasionally competitive in all three ensembles.
- The 21st most Republican district and the 31st most Democratic district are competitive about half the time in all three ensembles.
- The 22nd most Republican through 32nd most Democratic districts (numbers 22 through 34 in the sorted list) are usually competitive in all three ensembles.

#### 5.4 Partisan seat share

The histograms in Figure 18 describe what percentage of plans in each ensemble result in each possible number of Democratic seats won in the composite election. (The corresponding histograms for the numbers of Republican seats won would be the mirror images of the ones shown here.)

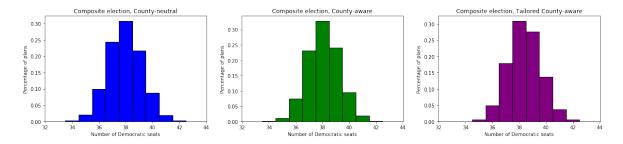


Figure 18: Numbers of Democratic seats won in composite election for ensembles for State House

The most common outcome in all three ensembles is 38 Democratic seats, with 37 and 39 seats also being relatively common. The mean numbers of Democratic seats in the county-neutral, county-aware, and tailored county-aware ensembles are 37.94, 38.08, and 38.39, respectively.

As for competitive districts, we can see a more nuanced picture in the box plots of Figure 17. The districts numbered 25 through 30 in the sorted list might be considered "toss-up" districts, as their vote shares are, to varying degrees, reasonably likely to lie on either side of the 50% line. The variability of outcomes in these districts is responsible for the range of outcomes seen in the histograms in Figure 17.

# 6 Comparison of First and Second Staff Plans for State House to ensembles

On September 13, 2021, the Commission's nonpartisan staff released the First Staff Plan for State House districts, and on September 23, 2021, the Second Staff Plan was released. In this section we compare these plans to our ensembles for the measures described in the Section 5.

We wish to emphasize yet again that the Staff Plans are **absolutely not expected to be at or near the mean values** for either ensemble with respect to all the measures that we have computed. Even if the plans were drawn entirely randomly, about half of their computed values would be expected to lie outside the middle 50% range for the ensemble. Furthermore, the Commission and nonpartisan staff are not attempting to draw completely average plans, but rather to fulfill the Constitutional requirements that dictate that they attempt to preserve communities of interest and maximize the number of competitive districts. The comparison given here between the Staff Plans and our ensembles is intended **only** to provide context which may be used by the Commission as just one of many measures to evaluate the Staff Plans.

# 6.1 Minority representation

In Figures 19 and 20, we add the values for the House districts in the First and Second Staff Plans for the Hispanic voting age population and Non-White voting age population, respectively, to the box plots from Figures 14 and 15, showing only the top 25 districts in each case.

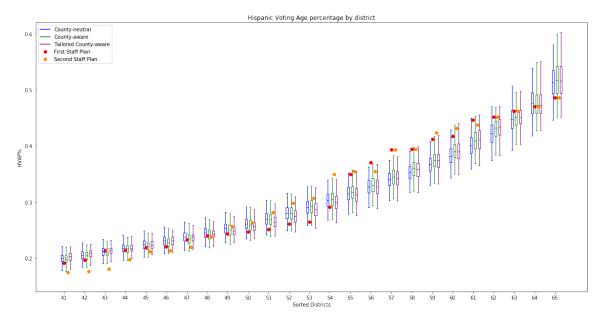


Figure 19: Hispanic voting age percentage by district for ensembles and Staff Plans for State House

The First Staff Plan has 11 districts with Hispanic voting age population above 30%, with the

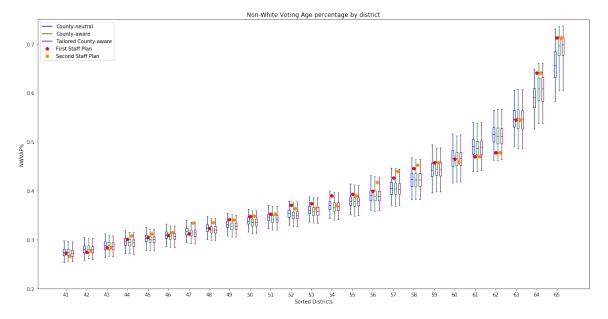


Figure 20: Non-White voting age percentage by district for ensembles and Staff Plans for State House

population of the 9th highest district particularly high relative to all three ensembles. The Second Staff Plan has 14 districts with Hispanic voting age population above 30%, with the populations of the 9th and 12th highest districts particularly high relative to all three ensembles. There is a substantial drop between the 11th and 12th highest districts in the First Staff Plan, and between the 12th and 13th highest districts in the Second Staff Plan, which suggests that the Staff Plans may have been deliberately designed to achieve 11 and 12 districts, respectively, above this threshold. (Although, as noted above, the Second Staff Plan actually contains two additional districts above the 30% threshold.)

Both Staff Plans have 22 districts with Non-White voting age population above 30%. The 22nd highest district has a slightly higher Non-White voting age percentage in the Second Staff Plan (30.8%) than in the First Staff Plan (30.1%), with the next-highest district in both plans having a Non-White voting age percentage of 28.4%.

#### 6.2 Competitive districts

In Figure 21, we have added the values for the districts in the First and Second Staff Plans for the number of competitive districts to the histograms from Figure 16.

The First Staff Plan contains 11 competitive districts, including one that is exactly at the 8.5% competitiveness threshold. The Second Staff Plan contains 10 competitive districts, plus two additional districts within a 10% vote band about the 50% mark. These numbers are somewhat

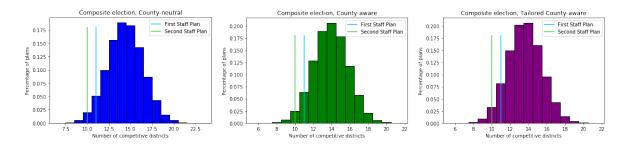


Figure 21: Numbers of competitive seats for ensembles and Staff Plans for State House

below the means for all three ensembles; they are not extreme outliers, but they do not provide evidence that the Staff Plans maximize the numbers of competitive districts. However, as we have repeatedly cautioned, they also do not necessarily indicate that the Staff Plans fail to satisfy this priority, as the discrepancy could easily result from prioritizing communities of interest or specific county or municipal boundaries that were not included in the design of our ensembles. For instance, the deliberate creation of more districts with Hispanic voting age percentage above 30% than expected, as seen in the Second Staff Plan, could potentially have an impact on the expected number of competitive districts.

With additional information from the Commission regarding what regions should be kept together in accordance with the Voting Rights Act, what county and/or municipal boundaries were intentionally prioritized, and what other communities of interest were preserved, we might be able to create ensembles that reflect the full range of constitutional criteria. This additional information is especially likely to influence the range of partisan outcomes and numbers of competitive districts seen in ensembles for State House plans, since State House districts consist of few enough people that keeping together relatively small geographic areas as communities of interest can greatly constrain House district boundaries within the region.

In Figure 22, we have added the values for the districts in the First and Second Staff Plans to the box plots for the Democratic vote share for the composite election from Figure 17. We have also broken out the districts in the range from the 18th most Republican to the 26th most Democratic districts into a separate plot, as these are the districts with the potential to be competitive.

This figure is somewhat striking; for the districts in the outer regions of the potentially competitive range, neither of the first two Staff Plans comes close to achieving competitiveness for these districts, despite significant portions of all three ensembles containing competitive districts in these positions. This data lends additional credence to our supposition that these Staff Plans may have incorporated priorities not included in our ensemble models, especially in light of the extremely competitive Second Staff Plan for the State Senate. We would welcome additional information from the Commission that would help us to better understand their priorities and to build more accurate ensembles for State House plans.

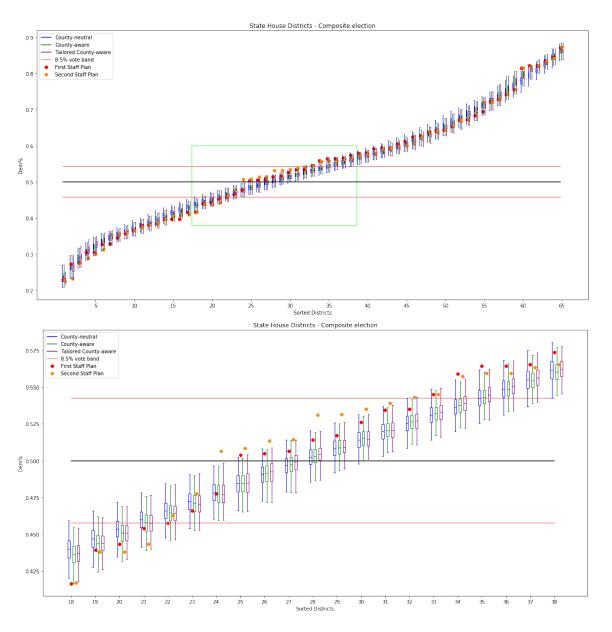


Figure 22: Democratic vote shares by district for ensembles and Staff Plans for State House, with competitiveness vote band

# 6.3 Partisan seat share

Finally, we compare the First and Second Staff Plans to our ensembles regarding partisan seat share. In Figure 23, we have added the values for the districts in both Staff Plans for the number of Democratic seats in the composite election to the histograms from Figure 18.

The First Staff Plan produces 41 Democratic seats, which is about 3 seats above the means of all three ensembles. This plan might reasonably be considered an outlier, although not an extreme

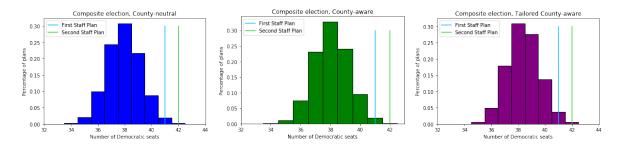


Figure 23: Numbers of Democratic seats won in ensembles and Staff Plans for State House

one. The Second Staff Plan produces 42 Democratic seats, which is about 4 seats above the means of all three ensembles and is definitely an extreme outlier; only 0.24% of plans in the county-neutral ensemble, 0.20% of plans in the county-aware ensemble, and 0.59% of plans in the tailored county-aware ensemble produce 42 or more Democratic seats.

The extremity of this plan is somewhat mitigated by the additional context contained in Figure 22; the bottom 4 Democratic seats in the Second Staff Plan are very competitive, with Democratic vote shares of 50.65%, 50.85%, 51.35%, and 51.45%. So these seats might reasonably be viewed as "toss-up" seats rather than either Democratic or Republican.

In order to explore this idea of "toss-up seats" further, we considered the range of partisan outcomes for the 8 statewide elections included in the composite election. Statewide Democratic vote shares for these elections ranged from 52.7% (President 2016) to 55.2% (Governor 2018), with an average for the composite election of 54.0%. This means that across these 8 elections, Democratic vote shares for the average district ranged from 1.3% below to 1.2% above the figure reported for the composite election. In particular, a typical district with reported Democratic vote share between 48.7% and 51.2% probably experienced majority votes for both parties at some point during these 8 elections.

With this in mind, we decided to explore an alternative classification of district-based partisan outcomes into three categories based on a 3% vote band about 50%:

- 1. Democratic: Democratic vote share of 51.5% or more;
- 2. Republican: Democratic vote share of 48.5% or less;
- 3. Toss-up: Democratic vote share between 48.5% and 51.5%.

The histograms in Figure 24 describe what percentage of plans in each ensemble fall into each of these three categories, with the values for the First and Second Staff Plans included for comparison.

With the addition of the toss-up category, the Staff Plans look somewhat less extreme relative to the ensembles. The First Staff Plan is within one or two seats of the most common outcomes for

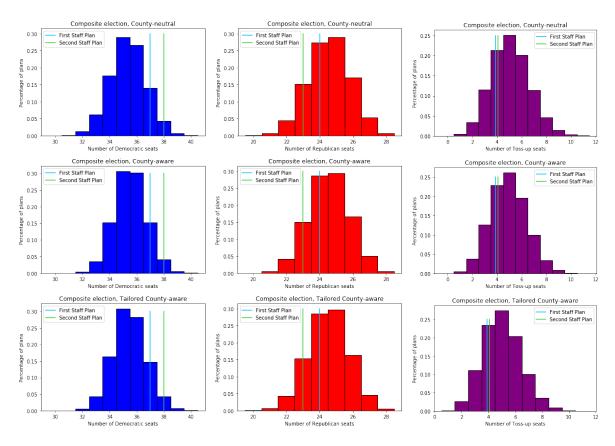


Figure 24: Numbers of Democratic, Republican, and Toss-up seats in ensembles and Staff Plans for State House

all ensembles with respect to the numbers Democratic, Republican, and toss-up seats. The Second Staff Plan is still something of an outlier with respect to the number of Democratic seats, but not the extreme outlier that it appears to be in Figure 23. The number of toss-up seats is one seat below the mean of all ensembles in both Staff Plans, which is consistent with the pattern for competitive seats within the 8.5% threshold for these plans.

#### 6.4 Conclusions

The Commission and the nonpartisan staff have clearly put much thought and effort into the design of the First and Second Staff Plans for both the Senate and the House. Our computer-generated ensembles of plans cannot take into account the myriad of considerations that went into their design, or those that the Commission will prioritize for additional plans.

For the Senate, we do do not detect any evidence of problematic features in either Staff Plan. Both plans perform particularly well with respect to the numbers of districts with Hispanic voting age population above 30%, and the Second Staff Plan does an extremely good job of maximizing the

number of competitive districts. Both plans are also within the ranges of reasonable outcomes for Democratic and Republican seat shares with respect to all three ensembles.

For the House, both Staff Plans perform well with respect to the numbers of districts with Hispanic voting age population above 30%, with the Second Staff Plan performing extremely well with 14 such districts, compared to 11 in the First Staff Plan. We have concerns about the numbers of competitive districts produced by both Staff Plans, which are within the range of reasonable outcomes but do not show evidence that the number of competitive districts has been maximized. We also have concerns that the number of Democratic seats produced by the Second Staff Plan is abnormally high, although this concern is somewhat tempered by the further exploration of which seats might reasonably be considered toss-ups. These effects may well be related to the relatively large number of districts with a high Hispanic voting age population, to the Commission's efforts to preserve other communities of interest, or to other priorities not included in our ensemble models, but we do not currently have enough information about such priorities to assess their effects.

# 7 Acknowledgments

We are very grateful to Moon Duchin and the MGGG Redistricting Lab for their pioneering work in ensemble analysis, for their open source python package GerryChain (available at https://github.com/mggg/GerryChain) which we have used for our computations, and for their ongoing support for our work.

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# A Technical details

#### A.1 Data collection

In order to build the precinct map used to generate ensembles, we obtained data from the following sources:

- A shapefile with the geographic boundaries of all 2020 voting precincts in Colorado, including
  precinct-level election results for all statewide elections in 2020, was given to us by Louis Pino
  from the Commission's nonpartisan staff.
- In the summer of 2019, the third author's student Haley Colgate compiled a shapefile with the geographic boundaries of all 2018 voting precincts in Colorado, including precinct-level election results for all statewide elections in 2018, with the assistance of Todd Bleess of the Colorado State Demography Office.
- A shapefile with the geographic boundaries of all 2016 voting precincts in Colorado, including

precinct-level election results for all statewide elections in 2016, was obtained from the Voting and Election Science Team's repository on the Harvard Dataverse at https://dataverse.harvard.edu/dataverse/electionscience.

Population data from the 2020 Census was taken from the 2020 PL 94-171 Data Summary
File for Colorado based on the Decennial Census at the Census Block Level, obtained from
the Redistricting Data Hub at https://redistrictingdatahub.org.

The open source python package Maup, developed by the MGGG Redistricting Lab and available at https://github.com/mggg/maup, was used to aggregate/disaggregate all population and election data from their original geographies onto the precinct geographies in the 2020 precinct shapefile. The resulting shapefile contains all the data required to compute population and election results for any district composed of 2020 precincts.

For our tailored county-aware ensemble, we modified this shapefile as follows: For each of the 27 counties with 2020 Census population less than 10,000 and each of the 4 communities of interest identified by the Commission, we merged all precincts for that county or community of interest to create a single unit in the shapefile. Since districts in our ensemble plans are built from units in the shapefile, this guarantees that all plans in the tailored county-aware ensemble keep each of these counties and communities of interest whole within districts.

# A.2 Ensemble generation

In order to generate our ensembles, we used the Recombination ("ReCom") method developed by the MGGG Redistricting Lab in 2018. (See [6] for a thorough treatment of this method.) For this method, the precinct map is modeled by a mathematical object called a **dual graph**, where each precinct is represented by a point called a **vertex**, and two vertices are connected by an **edge** if the precincts that they represent share a geographic boundary of positive length. A map of Colorado's 2020 voting precincts and its dual graph are shown in Figure 25.

A district plan is then represented by a partition of the dual graph into connected subgraphs, one for each district. (As an illustration, Figure 26 shows the graph partition corresponding to the First Staff Plan for Congressional districts.) A partition is **valid** if it represents a legally valid district plan; at a minimum, the districts in the plan should be contiguous and have (approximately) equal population.

An ensemble starts with one randomly constructed valid plan, called the "seed plan." The ensemble is then constructed by a mathematical process called a **Markov chain**, in which each new plan is created by applying a random process to modify the previous plan in some way. For the ReCom method used to build our ensembles, this random process works as follows: At each step, the algorithm randomly selects a pair of adjacent districts and merges the two subgraphs corresponding

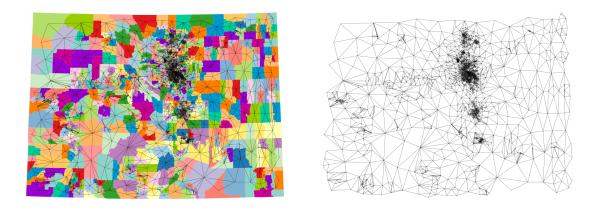


Figure 25: Colorado 2020 precinct map and dual graph

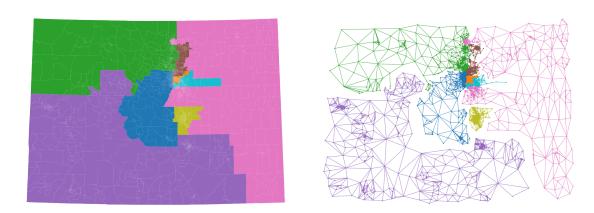


Figure 26: First Staff Plan for Congressional districts and corresponding dual subgraphs

to these districts into a single graph. Next, it generates a **spanning tree** for the merged graph—i.e., a subgraph consisting of all the graph's vertices and a subset of its edges, with the property that this subgraph is contiguous and has no closed loops—chosen randomly and uniformly from the set of all spanning trees of the merged graph. Finally, it looks for an edge to cut in order to create two new districts that each satisfy the population constraint. (District contiguity is automatic with this method.) This process is illustrated in Figure 27.

Part of the appeal of the Markov chain approach is a well-developed theory and a long history of applications of Markov chain sampling methods (see, e.g., [7]). In particular, a sufficiently long Markov chain is theoretically guaranteed to produce an ensemble that accurately represents a specific probability distribution on the entire space of valid district plans. In general, this probability distribution is difficult to determine explicitly, but for the ReCom method there is good heuristic and experimental evidence indicating that the probability of any particular plan appearing in the ensemble is closely related to a natural discrete measure for district compactness. In practice, this

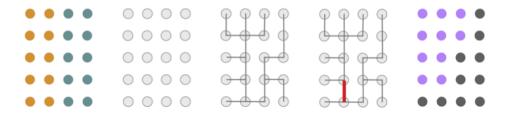


Figure 27: A ReCom step (Figure 4 in [6]; used with permission.)

means that this method is strongly biased towards plans with relatively compact districts and has no other detectable bias towards any particular type of plan (see, e.g., [4] and [6]). Our county-neutral ensemble was generated with this method; some examples of plans from this ensemble are shown in Figure 28.

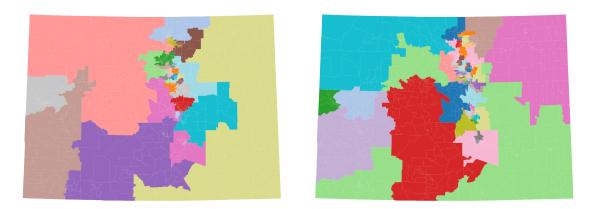
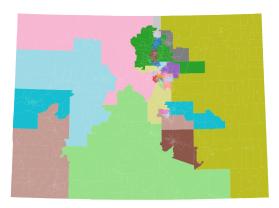


Figure 28: Examples of plans created by the ReCom method for county-neutral ensembles for Senate (left) and House (right)

For our county-aware ensemble, a variation was used in the construction of the spanning tree for the merged graph, in which the random choice of edges to form the spanning tree is more heavily weighted towards intra-county edges, so that the resulting spanning tree contains relatively few edges connecting precincts in different counties. When the tree is cut, it is less likely to produce districts that split counties. Some examples of plans from this ensemble are shown in Figure 29.

For our tailored county-aware ensemble, we applied the county-aware variation of ReCom to the shapefile obtained by merging precincts as described in Section A.1. Some examples of plans from this ensemble are shown in Figure 30.



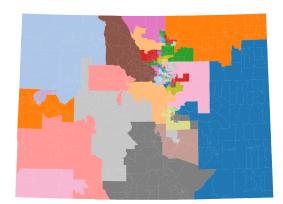
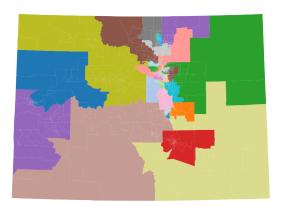


Figure 29: Examples of plans created by the ReCom method for county-aware ensembles for Senate (left) and House (right)



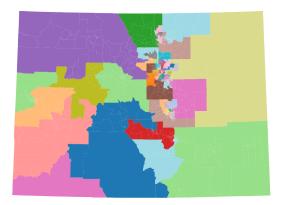


Figure 30: Examples of plans created by the ReCom method for tailored county-aware ensembles for Senate (left) and House (right)

# A.3 Ensemble size

Regarding the question of how long is "sufficiently long" for a Markov chain to produce a representative sample of plans, there is unfortunately no good theoretical answer. This question is usually answered heuristically, by running chains until statistics of interest appear to stabilize in a way that is not dependent upon the choice of seed plan. This stabilization is referred to as "mixing" or "convergence" of the statistics being measured.

When two or more independently generated chains are available, convergence of relevant measures can be checked by comparing the distributions of the measures from the available chains. If the distributions are "close enough," we consider the chains to be sufficiently long for analyses. To check how close two empirical distributions are from one another, we used the two-sample Kolmogorov-Smirnov (KS) statistic, which is the maximum vertical distance between two empirical cumulative

distribution functions (ECDFs) derived from two independent samples. KS values of 0.01 or lower are indicative of nearly indistinguishable chains from different seeds; however, this is a very high bar to meet and may require generating ensembles of several million steps.

When only one independently generated chain is available, it is still possible to check how fast the chain is mixing by looking at the chain's autocorrelations, which measure how dependent a chain is on its previous steps. Autocorrelations take values between -1 and 1, with a value of 0 indicating non-dependence, and values close to 1 or -1 indicating high dependence. For example, a lag 10 autocorrelation of 0.8 would indicate that any step of the chain is highly dependent on its 10 previous steps. For fast-converging chains, autocorrelations quickly decay to 0 as the lags increase. Inspecting which lags give autocorrelations close to 0 is a way of checking how quickly a chain is converging and it also allows one to make rough estimates on how long the chain should be for appropriate analyses. For instance, if the lag 1000 of a chain is close to 0, then we can consider each step of the chain to be fairly uncorrelated with 1000 steps prior. Therefore, if we were to collect every 1000th step of the chain, we would obtain a fairly uncorrelated sample, which would be close enough to an independent sample. This means that for a chain of size 2 million with a lag 1000 autocorrelation close to 0, we can expect the chain to be at least as good as an independent sample of size 2000, which would be long enough for reliable analyses and outlier detection.

Among the three types of chains used in this report (county-neutral, county-aware, and tailored county-aware), we explored convergence in more detail for county-aware chains for the State House, since State Senate chains are expected to have much faster convergence than House chains because an increased number of districts significantly slows down the rate of convergence. We also focused our convergence analyses on two types of measures: vote shares and seat shares. In our experience, other types of measures (for example, number of competitive districts, number of counties split, etc.) have convergence speeds similar to or better than vote shares and seat shares.

#### County-aware chains:

For the convergence analysis of county-aware chains for the State House, we used three races to represent the proportion of Democratic votes at the precinct level: 2018 Attorney General (AG18), 2020 President (PRES20), and 2018 Secretary of State (SOS18). For each of these three races, 7 chains of size 2 million were generated using 7 independent seeds (starting plans) and we calculated the two-sample KS statistic for each pair of seeds (21 pairs).

The three largest two-sample KS statistics were 0.2318, 0.2275, and 0.2273 for the vote shares of the least Democratic district for the SOS18, PRES20, and AG18 races respectively. Approximately 11% of the KS values for vote shares were below 0.01 and 11% were greater than 0.05. These values are indicative of slow convergence for most of the vote shares.

Autocorrelations also indicated slow-mixing chains. The minimum lag such that autocorrelations

were less than 0.01 varied widely. For example, for the AG18 race data, the smallest such lag was 2056 and there were 6 lags above 200,000. If we were to require a sample at least as large as 500 times the largest of the minimum lags, we would need sample sizes greater than 100 million.

Even though our analysis indicates that chains of size 2 million for the State House do not have ideal convergence diagnostics, in order to detect outliers we only need to be able to trust the estimates for low and high quantiles for measures of interest generated by our chains. That is, we would like the lower and higher sample quantiles of measures generated by different seeds to be "close enough" so that we can trust the detection of unusual observations even when chains are not very well mixed.

To explore how long our chains should be for outlier detection, we looked at the differences between the tails of the ECDFs of samples generated by different seeds. We considered the tail of a distribution to be the top and bottom 2.5% of the distribution, that is, all observations beyond the middle 95% of the distribution. For chains of size 2 million, the largest two-sample tail distance was 0.044 for the second least democratic district. Approximately 87% of the tail distance values for vote shares were below 0.01. This number was 73% for seat shares. The largest difference between the tail quantiles was 0.018 for the 56th least democratic district. Approximately 95% of the differences between the tail quantiles were below 0.01.

These summaries indicate that a sample of size 2 million is able to effectively identify unusual observations.

#### County-neutral chains:

County-neutral chains usually have faster convergence than county-aware chains; here we confirmed this by looking at their autocorrelations. Therefore, we are fairly confident that county-neutral chains are at least as appropriate as county-aware chains for analyses and detection of unusual observations.

#### Tailored county-aware chains:

Tailored county-aware chains showed slower convergence than non-tailored county-aware chains, and there were more districts with a KS statistic above 0.2 than there were in non-tailored chains. To mitigate this and improve the accuracy of estimates produced by tailored samples, we constructed a chain of size 2 million by combining every other step of two independently generated chains of size 2 million. The expectation is that two independently generated chains will together cover a larger portion of the sample space of plans than one chain alone. Therefore, this combination is expected to give a better representative sample, closer in accuracy to the non-tailored county-aware chains. We also note that all statistics produced by the tailored chains (except for counties split and total county splits, as expected) were very similar to those produced by the untailored chains, so no concerns were raised that might be attributable to inadequate sample size.