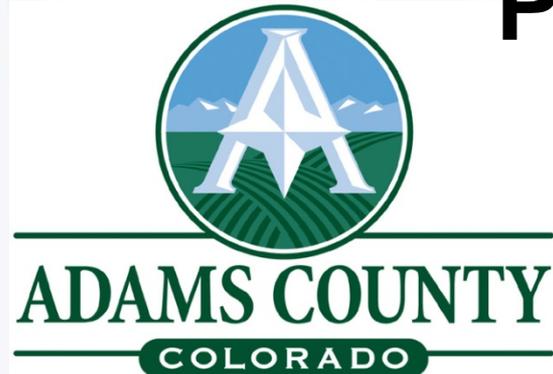


Adams County



Clear Ballot

Pilot Review



Uniform Voting System?

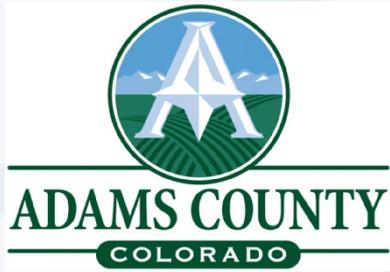


Eliminate Competition:

- Stifles Creativity and Technology

Competition:

- Incentivizes Modernization and Innovation
- Voters win



Priorities

Accuracy

Efficiency

Transparency



ADAMS COUNTY
CLERK & RECORDER'S OFFICE

Accuracy

- **Gray Scale Scanning:**
 - 256 shades of gray
 - No drop out colors
 - Results in High Definition Ballot Scans
- **75,000 Ballots Scanned**
 - 46 Unreadables (.0006%)
 - Electronic Adjudication vs. Manual Duplication adds Accuracy
 - One multiple ballot feed (deleted batch and re-scanned)

Accuracy

- **No Memory Card Failure**
- **Innovative Oval Visualization Technology:**
 - Least Confident Votes
 - Over Votes
 - Under Votes
 - Non Votes

Accuracy

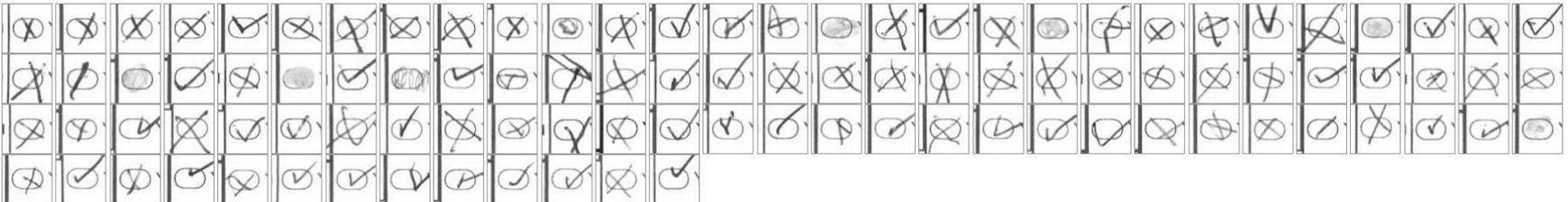
Coordinated Election, Nov 03 2015, Adams County
 Vote Visualization for Proposition BB (STATUTORY)-STATE OF COLORADO:Yes/For

Precinct: All Counter Group: All ScanStation: All Box: All # Ovals: 100 Change

Least Confident Votes for Proposition BB (STATUTORY)-STATE OF COLORADO:Yes/For

(474 manually resolved non-displayable ovals not shown...)

(47,687 more confident ovals above these not shown...)



Over Votes for Proposition BB (STATUTORY)-STATE OF COLORADO:Yes/For

(28 manually resolved non-displayable ovals not shown...)

(None)
 (0 additional oval not shown...)

Least Confident Non-Votes in Undervoted Ballots for Proposition BB (STATUTORY)-STATE OF CO

Sort for marks in ovals only

(6 manually resolved non-displayable ovals not shown...)

<input type="radio"/> Yes/For	<i>Don't know</i>	<input type="radio"/> Yes/For	<i>Don't know</i>	<input type="radio"/> Yes/For
<input checked="" type="radio"/> Yes/For		<input checked="" type="radio"/> Yes/For	<i>Don't know</i>	<input type="radio"/> Yes/For
<input type="radio"/> Yes/For		<input type="radio"/> Yes/For		<input type="radio"/> Yes/For

AB-047+10455.jpg

Proposition BB (STATUTORY)

Choice Proposition BB (STATUTORY)-STATE OF COLORADO:Yes/For

Vote For 1

Party Non-Partisan

Precinct 1052

CounterGroup AB

OvalDensity 7.81

ZoneDensity 2.73

MAY THE STATE RETAIN AND SPEND STATE REVENUES THAT OTHERWISE WOULD BE REFUNDED FOR EXCEEDING AN ESTIMATE INCLUDED IN THE BALLOT INFORMATION BOOKLET FOR PROPOSITION AA AND USE THESE REVENUES TO PROVIDE FORTY MILLION DOLLARS FOR PUBLIC SCHOOL BUILDING CONSTRUCTION AND FOR OTHER NEEDS, SUCH AS LAW ENFORCEMENT, YOUTH PROGRAMS, AND MARIJUANA EDUCATION AND PREVENTION PROGRAMS, INSTEAD OF REFUNDING THESE REVENUES TO RETAIL MARIJUANA CULTIVATION FACILITIES, RETAIL MARIJUANA PURCHASERS, AND OTHER TAXPAYERS?

Yes/For

No/Against



Accuracy

Clear Ballot
Reports for co_adams_2015g

Show visually-annotated card AB-047+10455
 Image Name: AB-047+10455.jpg
 Image Scan Time: 2015-10-28 14:40:59
 Scanned by Computer: ClearBallot
 Scanner Model: FUJITSU fi-6800d
 Scanner Serial: A9HCA00694
 Precinct: 1052
 Style ID: 48

COUNCIL MEMBER - WARD 4-NORTHGLENN
 Jenny Willford (Non-Partisan)
 Antonio Esquibel (Non-Partisan)
 Rosie Garner (Non-Partisan)

DIRECTOR DISTRICT NO 1-ADAMS 12 FIVE STAR SCHOOL DISTRICT
 Seth "Isaiah" Thomas (Non-Partisan)
 Norm Jennings (Non-Partisan)

DIRECTOR DISTRICT NO 2-ADAMS 12 FIVE STAR
 Daniel Garcia (Non-Partisan)
 Jamey Lockley (Non-Partisan)

DIRECTOR DISTRICT NO 4-ADAMS 12 FIVE STAR
 Amira Amal Assad-Lucas (Non-Partisan)
 Brian M. Batz (Non-Partisan)
 Jessy Briton Hamilton (Non-Partisan)

DIRECTOR DISTRICT NO 5-ADAMS 12 FIVE STAR
 Teresa Thomson Walsh (Non-Partisan)
 Laura P. Mitchell (Non-Partisan)
 Jeff Jasica (Non-Partisan)
 Stephanie James (Non-Partisan)

Proposition BB (STATUTORY)-STATE OF COLORADO
 Yes/For (Non-Partisan)
 No/Against (Non-Partisan)

1A-ADAMS COUNTY
 Yes (Non-Partisan)
 No (Non-Partisan)

2M-NORTHGLENN
 Yes (Non-Partisan)
 No (Non-Partisan)

**OFFICIAL BALLOT FOR ADAMS COUNTY, COLORADO
 COORDINATED ELECTION
 NOVEMBER 3, 2015**

Ballot Style 48-1052
Precinct # 7243401052


Stan Martin
Adams County Clerk & Recorder

INSTRUCTIONS TO VOTERS

To vote, fill in the oval to the left of your choice completely. To vote for a qualified write-in candidate, fill in the oval to the left and enter the name on the line provided. If you make a mistake, you may request a replacement ballot.

Warning:

Any person who, by use of force or other means, unduly influences an eligible elector to vote in any particular manner or to refrain from voting, or who falsely makes, alters, forges, or counterfeits any mail ballot before or after it has been cast, or who destroys, defaces, mutilates, or tampers with a ballot is subject, upon conviction, to imprisonment, or to a fine, or both.

City of Northglenn	Adams County	
<p style="text-align: center;">City of Northglenn</p> <p style="text-align: center;">COUNCIL MEMBER WARD 4 Four Year Term (Vote for One)</p> <p><input type="radio"/> Jenny Willford</p> <p><input checked="" type="radio"/> Antonio Esquibel</p> <p><input type="radio"/> Rosie Garner</p>	<p style="text-align: center;">Adams County</p> <p style="text-align: center;">Ballot Issue 1A</p> <p>WITHOUT IMPOSING ANY NEW TAX OR INCREASING ANY TAX RATE, SHALL ADAMS COUNTY RECEIVE \$10 MILLION FROM THE CITY AND COUNTY OF DENVER (DENVER) AND RECEIVE AN EQUAL AND PERPETUAL SHARE OF ALL AVAILABLE TAX REVENUES COLLECTED BY DENVER FROM ADDITIONAL COMMERCIAL DEVELOPMENT AT DENVER INTERNATIONAL AIRPORT (DIA) IN EXCHANGE FOR AMENDING THE INTERGOVERNMENTAL AGREEMENTS ENTERED INTO BY DENVER AND ADAMS COUNTY THAT ALLOWED FOR THE CREATION OF DIA; AND WITH ADAMS COUNTY TO BE AUTHORIZED TO ENTER INTO AN AMENDATORY INTERGOVERNMENTAL AGREEMENT WITH THE PURPOSE OF THE AMENDMENTS BEING TO ALLOW ADDITIONAL COMMERCIAL DEVELOPMENT AND PROMOTE ECONOMIC DEVELOPMENT AND JOB CREATION IN AND AROUND DIA IN BOTH DENVER AND ADAMS COUNTY AND THE MUNICIPALITIES IN ADAMS COUNTY; AND WITH ADAMS COUNTY TO BE AUTHORIZED TO SHARE A PORTION OF THE TAX REVENUES RECEIVED FROM DENVER WITH MUNICIPALITIES IN ADAMS COUNTY BY CREATING MULTIPLE-FISCAL YEAR FINANCIAL OBLIGATIONS WITHIN THE MEANING OF AND TO RECEIVE, SPEND AND SHARE SUCH TAX REVENUES WITHOUT REGARD TO ANY SPENDING, REVENUE RAISING OR OTHER LIMITATIONS CONTAINED IN ARTICLE X, SECTION 20 OF THE COLORADO CONSTITUTION OR OTHER LAW?</p> <p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>Ballot questions referred by the general assembly or any political subdivision are listed by letter, and ballot questions initiated by the people are listed numerically. A ballot question listed as an "amendment" proposes a change to the Colorado constitution, and a ballot question listed as a "proposition" proposes a change to the Colorado Revised Statutes. A "yes/for" vote on any ballot question is a vote in favor of changing current law or existing circumstances, and a "no/against" vote on any ballot question is a vote against changing current law or existing circumstances.</p>
<p style="text-align: center;">Adams 12 Five Star School District</p> <p style="text-align: center;">DIRECTOR DISTRICT NO. 1 Four Year Term (Vote for One)</p> <p><input type="radio"/> Seth "Isaiah" Thomas</p> <p><input type="radio"/> Norm Jennings</p>	<p style="text-align: center;">City of Northglenn</p> <p style="text-align: center;">Ballot Issue 2M</p> <p style="text-align: center;">SALES TAX EXTENSION</p> <p>WITHOUT RAISING ADDITIONAL TAXES, SHALL THE EXISTING ONE HALF PERCENT (1/2%) SALES AND USE TAX ON NON-FOOD ITEMS ORIGINALLY ADOPTED BY NORTHGLENN'S ELECTORS AT THE SPECIAL ELECTION OF MAY 9, 1989, AND</p>	<p style="text-align: center;">State of Colorado</p> <p style="text-align: center;">Proposition BB (STATUTORY)</p> <p>MAY THE STATE RETAIN AND SPEND STATE REVENUES THAT OTHERWISE WOULD BE REFUNDED FOR EXCEEDING AN ESTIMATE INCLUDED IN THE BALLOT INFORMATION BOOKLET FOR PROPOSITION AA AND USE THESE REVENUES TO PROVIDE FORTY MILLION DOLLARS FOR PUBLIC SCHOOL BUILDING CONSTRUCTION AND FOR OTHER NEEDS, SUCH AS LAW ENFORCEMENT, YOUTH PROGRAMS, AND MARIJUANA EDUCATION AND PREVENTION PROGRAMS, INSTEAD OF REFUNDING THESE REVENUES TO RETAIL MARIJUANA CULTIVATION FACILITIES, RETAIL MARIJUANA PURCHASERS, AND OTHER TAXPAYERS.</p> <p><input checked="" type="radio"/> Yes/For</p> <p><input type="radio"/> No/Against</p>
<p style="text-align: center;">DIRECTOR DISTRICT NO. 2</p> <p style="text-align: center;">Four Year Term (Vote for One)</p> <p><input type="radio"/> Daniel Garcia</p> <p><input type="radio"/> Jamey Lockley</p>	<p style="text-align: center;">City of Northglenn</p> <p style="text-align: center;">Ballot Issue 2M</p> <p style="text-align: center;">SALES TAX EXTENSION</p> <p>WITHOUT RAISING ADDITIONAL TAXES, SHALL THE EXISTING ONE HALF PERCENT (1/2%) SALES AND USE TAX ON NON-FOOD ITEMS ORIGINALLY ADOPTED BY NORTHGLENN'S ELECTORS AT THE SPECIAL ELECTION OF MAY 9, 1989, AND</p>	<p style="text-align: center;">DIRECTOR DISTRICT NO. 4</p> <p style="text-align: center;">Two Year Term (Vote for One)</p> <p><input type="radio"/> Amira Amal Assad-Lucas</p> <p><input type="radio"/> Brian M. Batz</p> <p><input type="radio"/> Jessy Briton Hamilton</p>
<p style="text-align: center;">DIRECTOR DISTRICT NO. 5</p> <p style="text-align: center;">Four Year Term (Vote for One)</p> <p><input type="radio"/> Teresa Thomson Walsh</p> <p><input type="radio"/> Laura P. Mitchell</p> <p><input type="radio"/> Jeff Jasica</p> <p><input type="radio"/> Stephanie James</p>	<p style="text-align: center;">City of Northglenn</p> <p style="text-align: center;">Ballot Issue 2M</p> <p style="text-align: center;">SALES TAX EXTENSION</p> <p>WITHOUT RAISING ADDITIONAL TAXES, SHALL THE EXISTING ONE HALF PERCENT (1/2%) SALES AND USE TAX ON NON-FOOD ITEMS ORIGINALLY ADOPTED BY NORTHGLENN'S ELECTORS AT THE SPECIAL ELECTION OF MAY 9, 1989, AND</p>	<p style="text-align: center;">DIRECTOR DISTRICT NO. 3</p> <p style="text-align: center;">Four Year Term (Vote for One)</p> <p><input type="radio"/> Seth "Isaiah" Thomas</p> <p><input type="radio"/> Norm Jennings</p>



ADAMS COUNTY CLERK & RECORDER'S OFFICE

Efficiency

- 2014 General
 - 5,600 ballots manually duplicated
 - 56 Judges and Staff, 5,350 hours
 - Taxpayer Responsibility = \$65,000
- **2015 Coordinated (Clear Ballot Pilot)**
 - **3 ballots manually duplicated**
 - **3 Judges and Staff, < 1 hour**
 - **Taxpayer Responsibility = < \$100**

Efficiency

- **Scanning / Adjudication:**
 - 4000 ballots/hour/scanner
 - Multiple scanners allow for backup if breakdowns
 - ‘Real Time’ processing from scanning to adjudication
 - No memory cards or backup required
- **Clear Design Sandbox:**
 - Feature in cloud allowing counties to share and learn from one another

Efficiency

- **Write-Ins:**

- Most modernized innovative write-in tool available
- Allows efficient electronic identification of every write-in candidate
- Rapid write-in adjudication and tabulation
- 1360 write-ins electronically adjudicated in 30 min (included judge training time)
- Currently developing next generation write-in tool

Efficiency / Transparency

- **Hi Res Electronic Ballot Images / CORA Requests:**
 - Final stages of development
 - Rapidly redact identifiable markings on every ballot
 - Full transparency of elections at little to no cost
 - Adams County goal is to download ballot images to website
 - Allow any individual to tabulate election

Transparency

- **PERC question regarding security and integrity:**
 - “don’t trust us, trust the system”
- **Clear Ballot Voting System:**
 - No Electronic or Machine Votes
 - Captures every oval in every contest
 - Allows for 100% Transparency!

Transparency



Post Election Review

12/2/15

Confidence is the ability to observe every oval in every contest

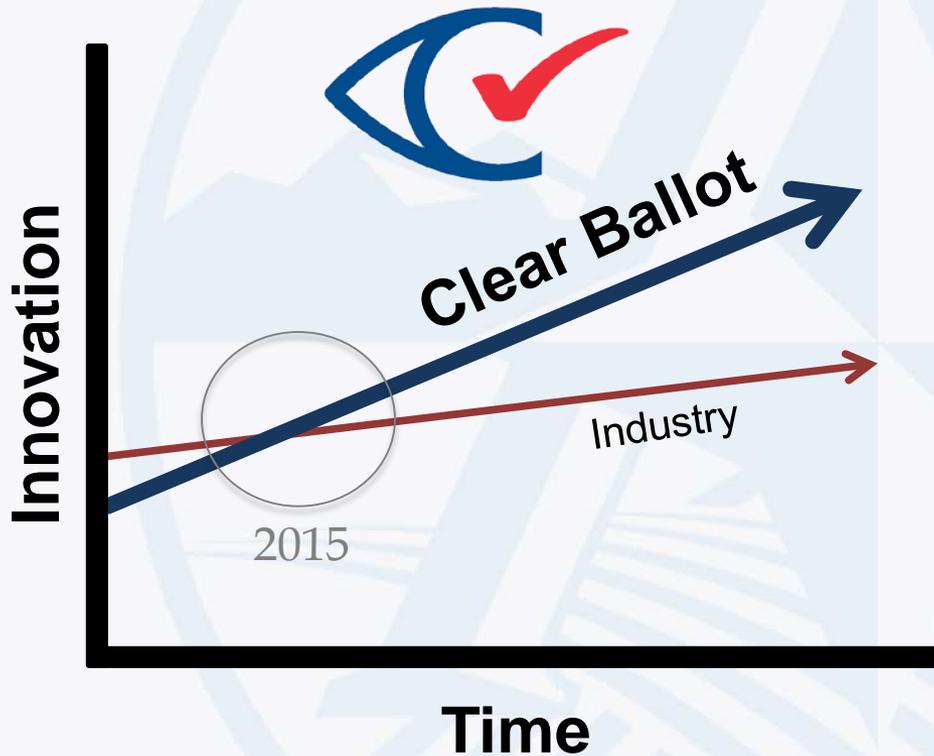
Stan, “thank you for stepping outside the norm and doing the things the citizens really expect of their county to be doing”.

Adams County Manager; Todd Leopold



ADAMS COUNTY
CLERK & RECORDER'S OFFICE

Future Elections



Continuous Innovation:

Leader in code development;
- Tab Iredale

Browser Based Technology:

Faster Certification:

Only company in the industry to use Python – a modern, powerful, and compact coding tool resulting in one tenth the code.

Staff Comments

- **Overall great experience!**
 - New technology replaced antiquated system

But as with all new large-scale implementations we expected some challenges

Challenges

- **Training materials and documentation not robust**
 - Adco and CBG partnering on developing new material
- **Reporting options need further development**
 - Adco and CBG partnership for the future

Positives

- **Cut and Paste during ballot build**
- **Voters really liked the ClearAccess Machines**
 - “CAMs” can be used as on-the-fly BODs
- **Risk-limiting audit was a breeze**

Positives

- **High speed scanning easy and very efficient**
 - Only 2 of 3 scanners used by 6 judges
 - In past, required 20 Accuvotes and 60 judges
 - Simple and intuitive operation

Positives

- **Digital Adjudication super efficient / transparent**
 - Multiple ways to view contests and ovals
 - System tracks changes and keeps log
 - Added transparency for watchers



Positives

- **Future uses**

- Least confident votes and undervotes sorted by density
- Displayed candidate-specific contests and avoided requested recount
- Easy to produce images and CVRs

Conclusion

- **Some challenges, as expected, but overall great pilot and partnership**
- **Added efficiencies results in significant savings**
- **Well received by voters and poll watchers**



Gilpin County

