Colorado's Water Supply Future

# IBCC Meeting

Lakewood, Colorado

December 2, 2009

# Agenda

- Context for Meeting
- Discuss Evaluation Criteria
- Panel Discussion
- Breakout Session
- Colorado River Water Availability Study

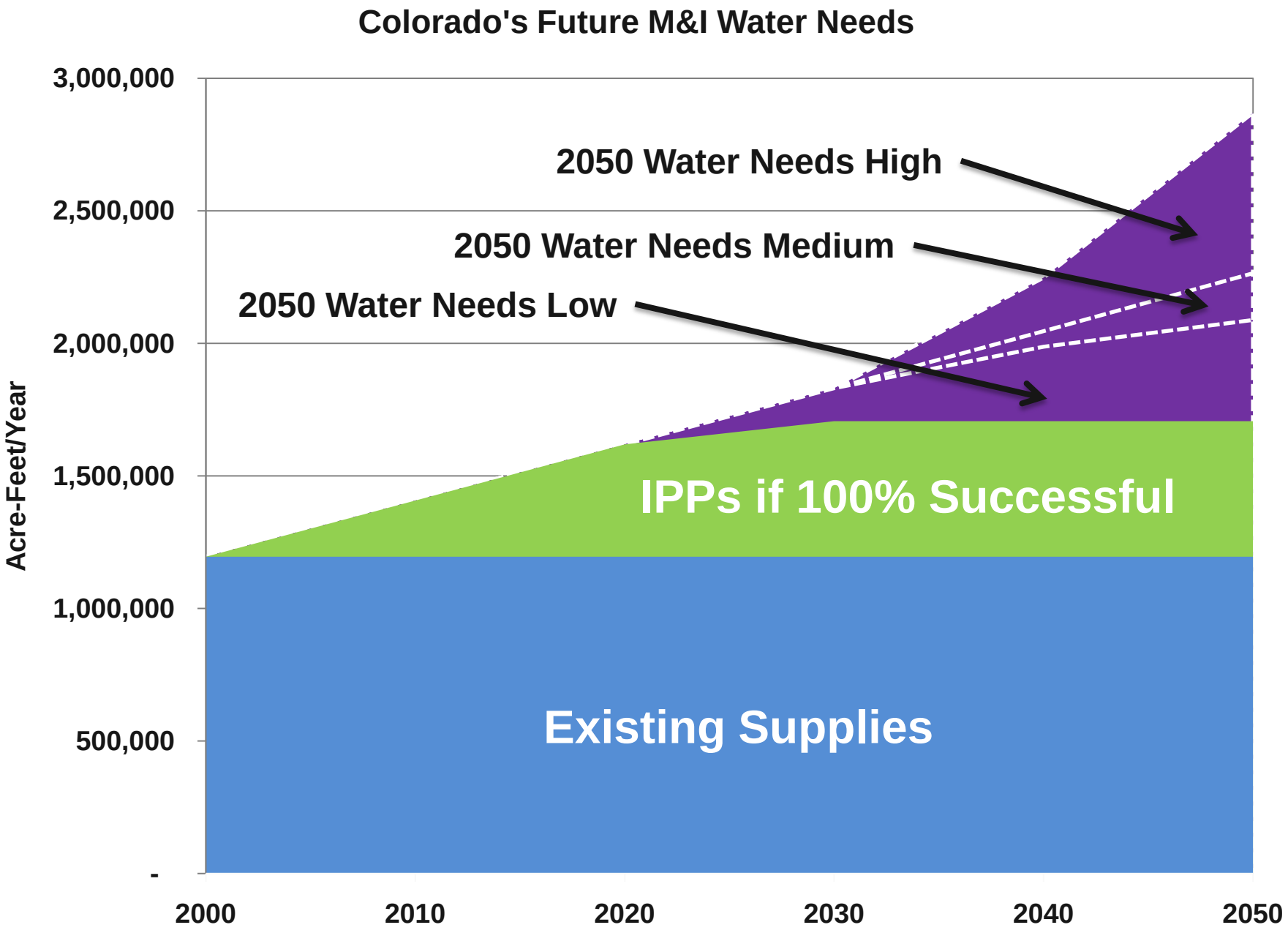
# *Context for Meeting*

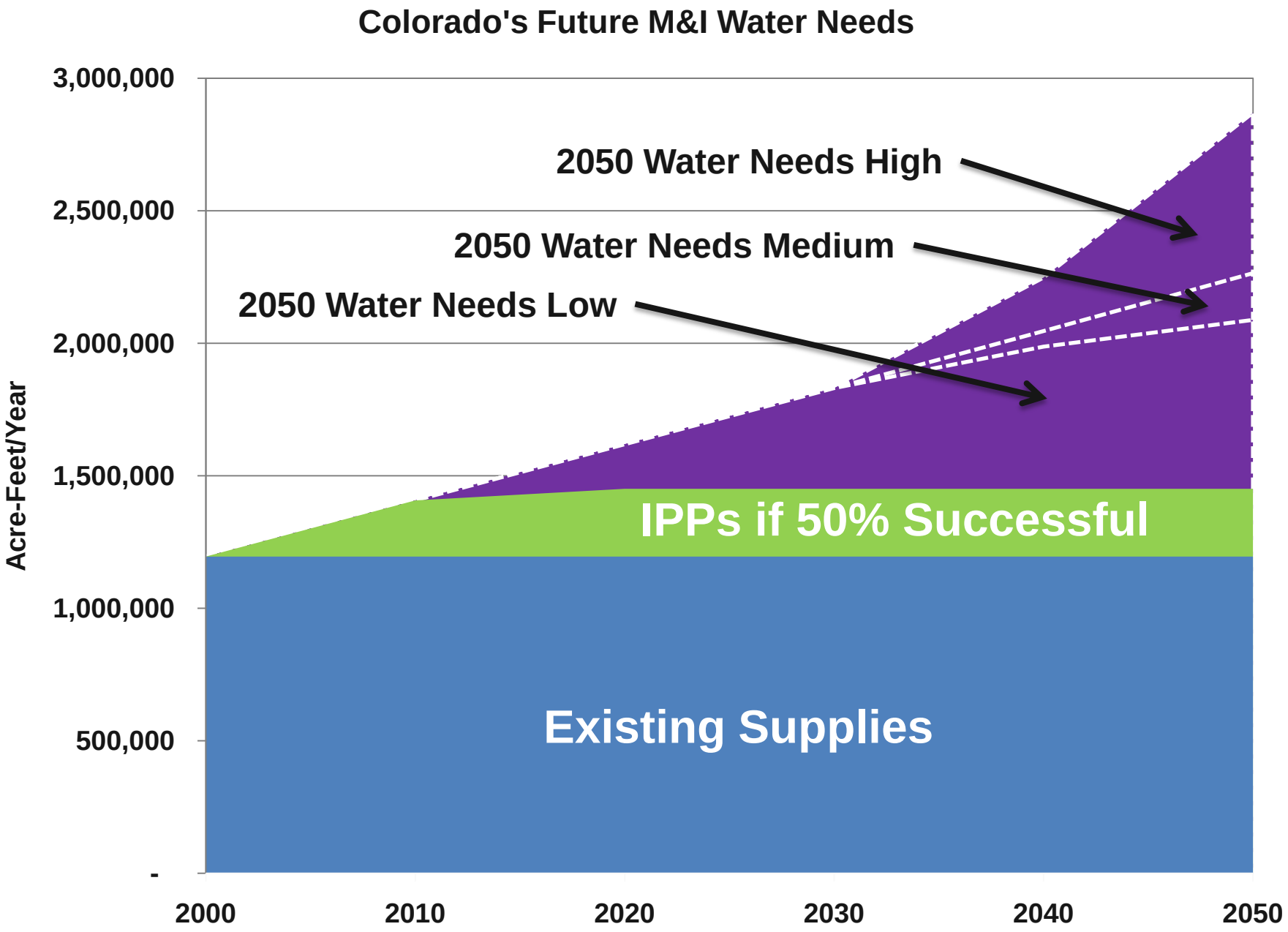
# Development of Portfolios and Evaluation of Water Supply Strategies

- During 2008, Colorado's water community embarked on a visioning process to address the following questions:
  - If we let Colorado's water supply continue to evolve the way it is now, what will our state look like in 50 years?
  - Is that what we want it to look like?
  - If not, what can and should we do about it?

# IBCC/CWCB Visioning Process
# Basic Conclusions

- The status quo approach to water supply will not lead to a desirable future for Colorado.
  - Status Quo = Significant loss of irrigated acres
  - If not the Status Quo then what?
- Colorado will need of range of demand side and supply side strategies.
- We need to work together to examine the trade-offs, risks, and uncertainties associated with different strategies and combination of strategies.


Colorado's Future M&I Water Needs
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
-
Acre-Feet/Year
2050 Water Needs High
2050 Water Needs Medium
2050 Water Needs Low
IPPs if 100% Successful
Existing Supplies
2000
2010
2020
2030
2040
2050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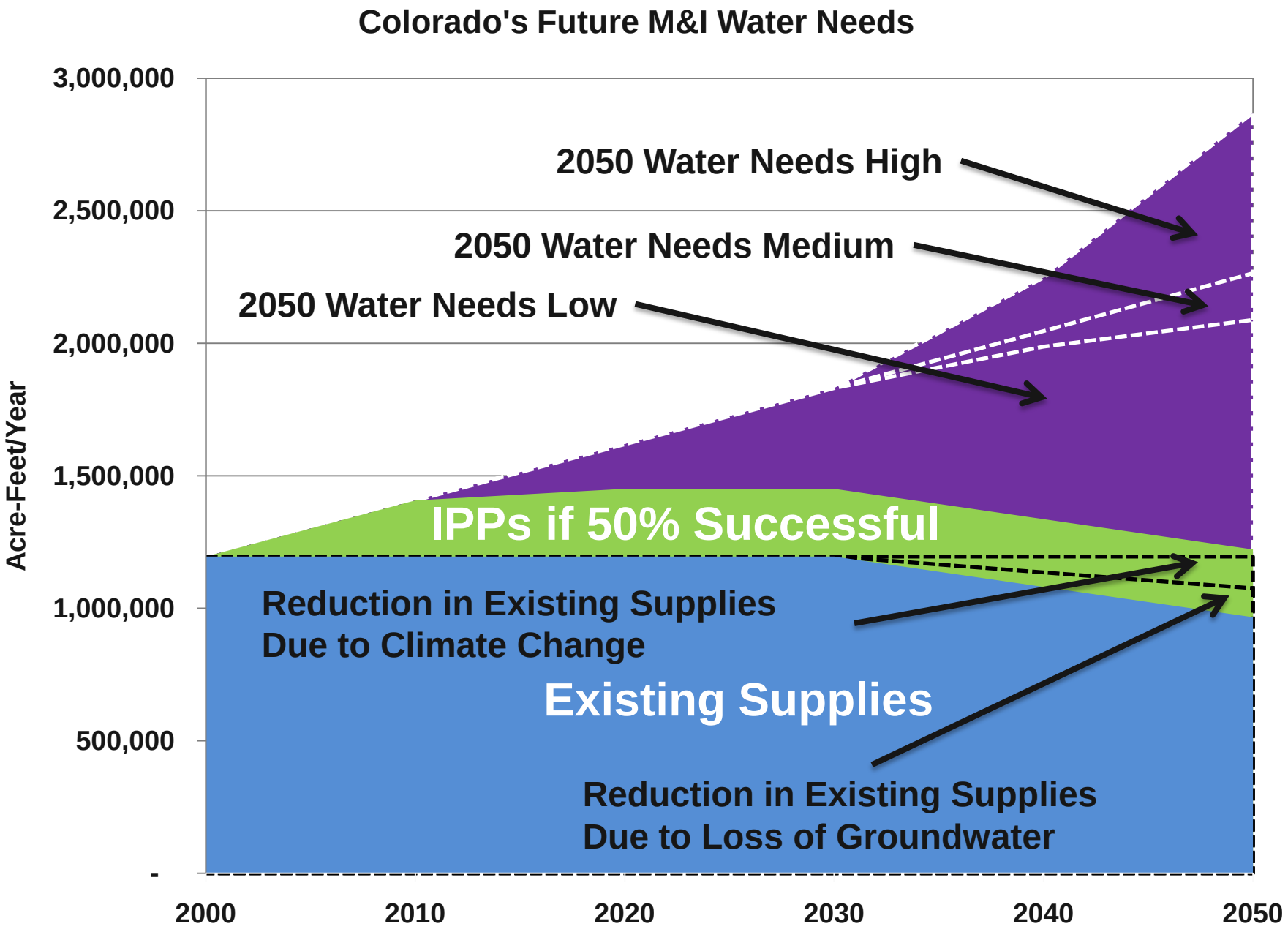
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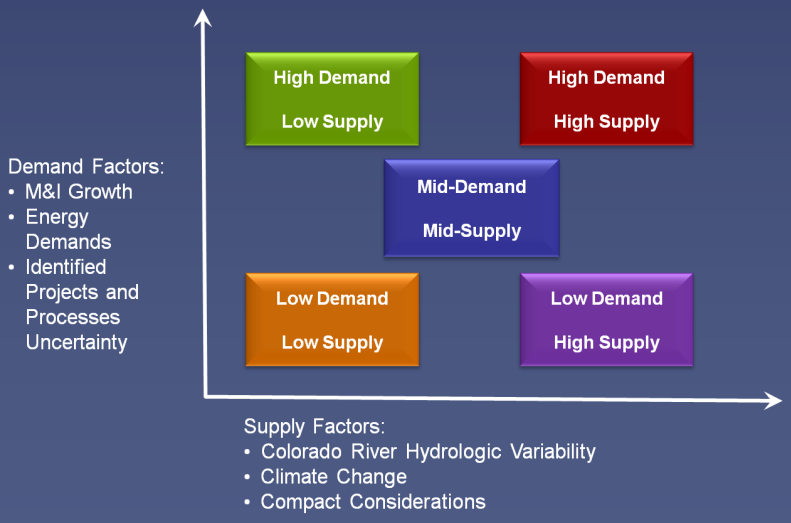
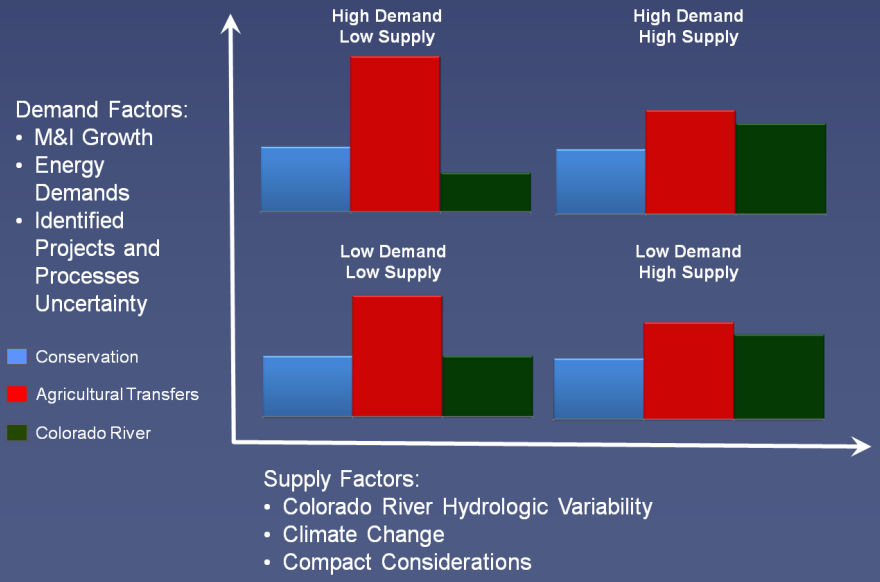
3,000,000
2,500,000
2,000,000
1,500,000
1,000,000
500,000
-
Acre-Feet/Year
2050 Water Needs High
2050 Water Needs Medium
2050 Water Needs Low
IPPs if 50% Successful
Reduction in Existing Supplies
Due to Climate Change
Existing Supplies
Reduction in Existing Supplies
Due to Loss of Groundwater
2000
2010
2020
2030
2040
2050

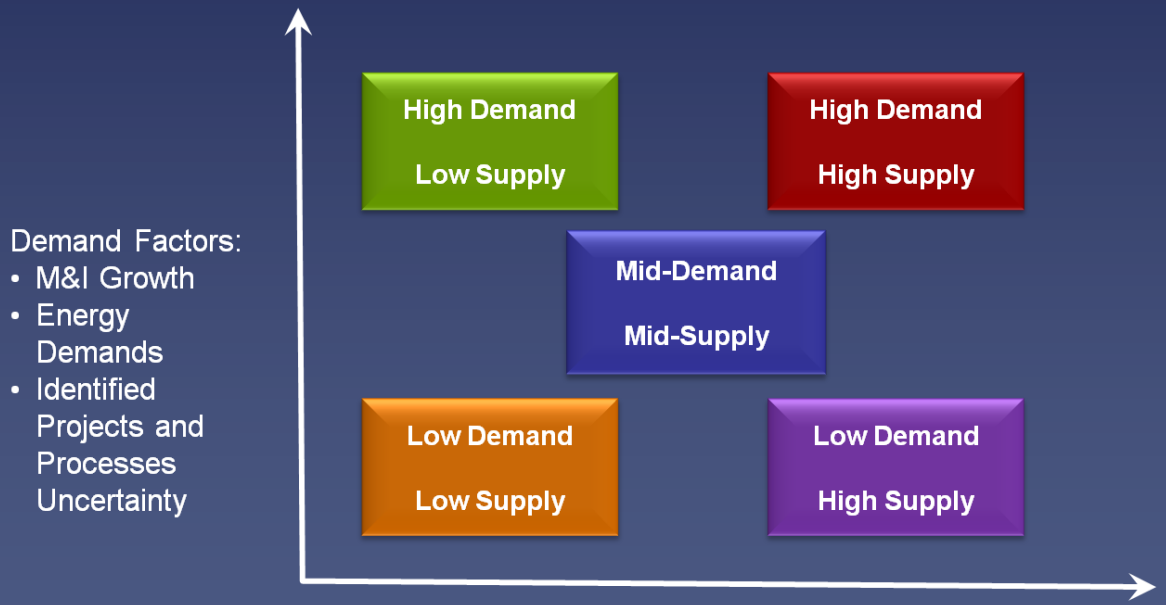
# September IBCC Meeting:

- Began building “portfolios” for meeting Colorado’s future water needs.
- Reviewed the concepts of: Scenarios, Portfolios, Strategies, and Projects/Methods.
- Discussed Refinements to the Portfolio Tool.

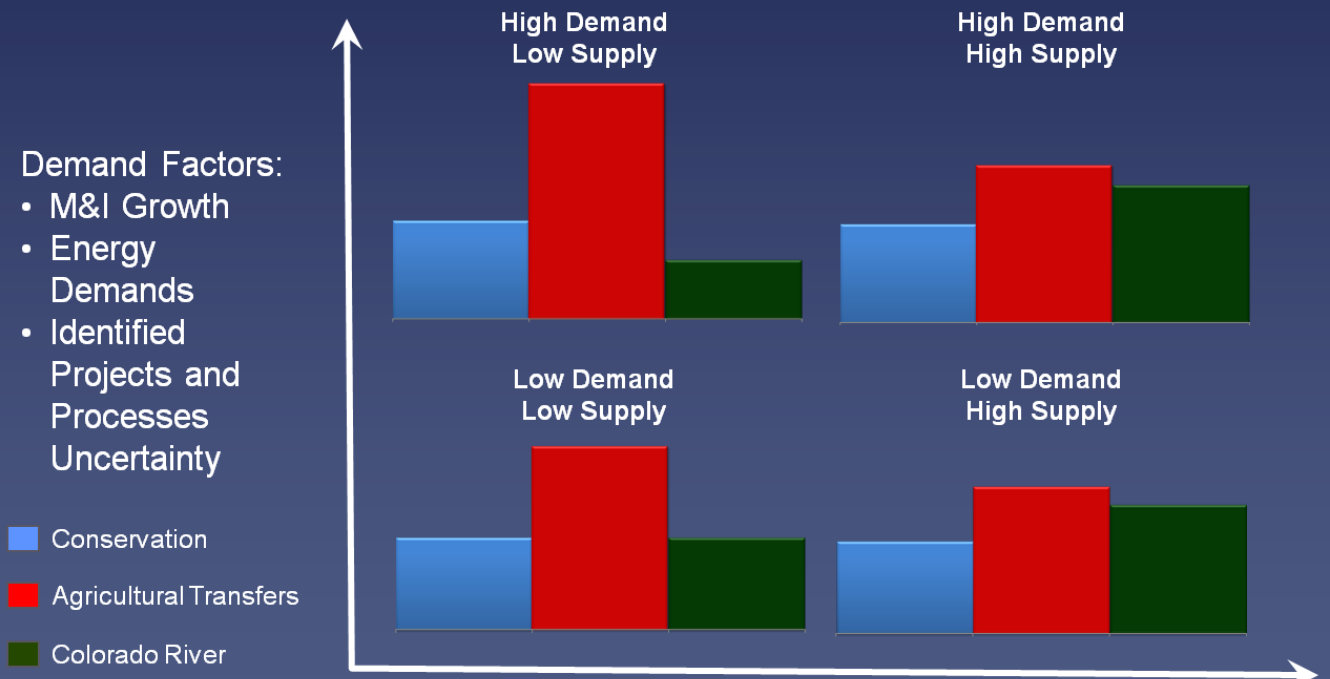


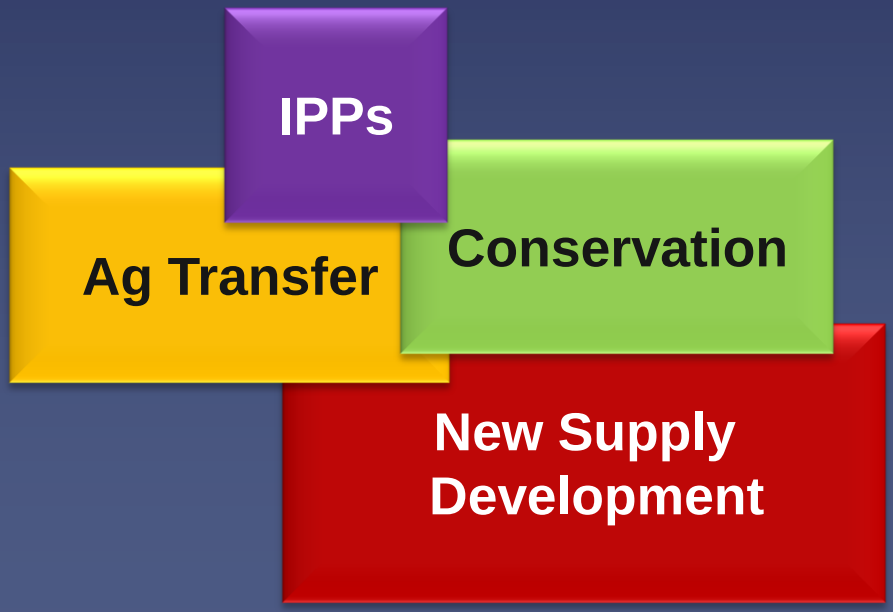
*Scenarios* – Different future conditions. Each scenario represents a different, but plausible, representation of circumstances that would result in differing statewide consumptive and nonconsumptive water demand and water supply. The IBCC is considering 5 different scenarios.



*Portfolios* – Combinations of strategies which collectively meet statewide water demands. Portfolios can be developed for each future scenario.



*Strategies* – Broad categories of solutions for meeting Colorado's consumptive and nonconsumptive water supply needs. Through its Visioning Process the IBCC identified a set of Demand Side Strategies and Supply Side Strategies and began developing conservation, agricultural transfers, and new water supply development strategies.



*Projects and Methods* – Specific actions that help implement each strategy. For example, a water project helps implement a new water supply development strategy, a rotational fallowing program helps implement an agricultural transfer strategy, and a block rate pricing program helps implement a conservation strategy. Each Basin Roundtable is responsible for proposing projects and methods to meet their consumptive and nonconsumptive needs.

Portfolio

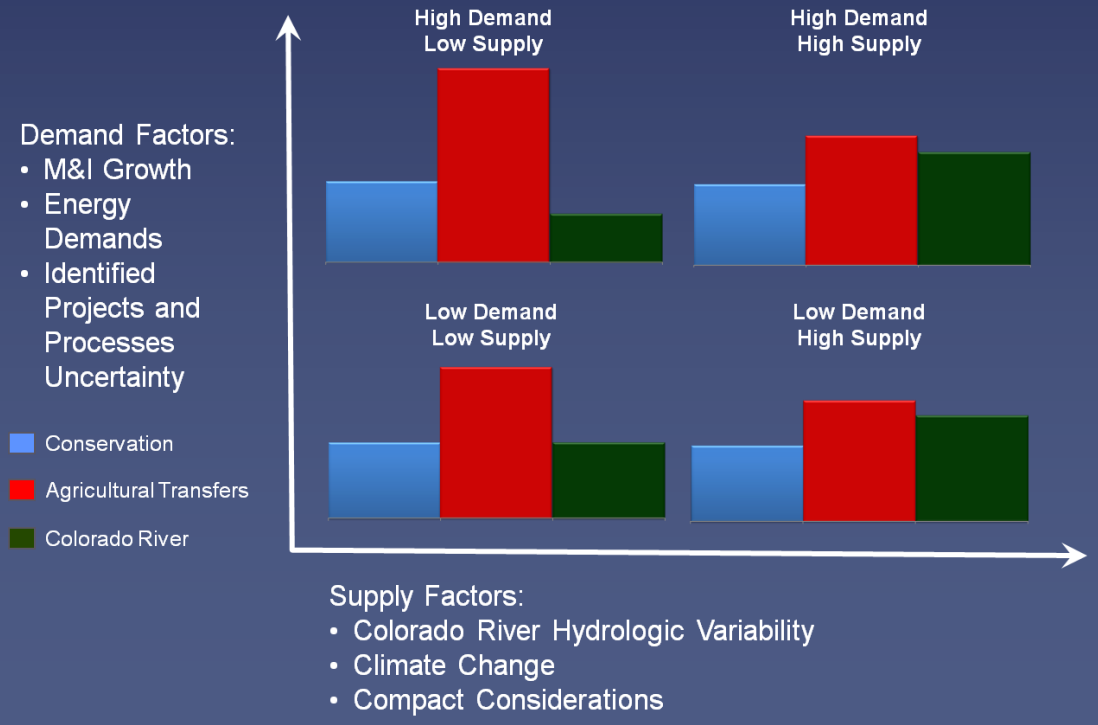
| Strategies | Projects and Methods |
| --- | --- |
| Agricultural Transfer | • Agricultural Transfers (Traditional and Alternative)<br>  • South Platte Basins<br>  • Arkansas Basin |
| Colorado River System | • Yampa<br>• Flaming Gorge<br>• Green Mountain |
| Conservation | • 15% to 40% savings off 2000 water usage |
| IPPs | • Providers current conservation plans and optimization of existing infrastructure<br>• Southern Delivery System, Arkansas Valley Conduit, Wolcott Reservoir, Elkhead Enlargement, Moffat Collection System, Rueter Hess Enlargement, Thornton Northern Project, Prairie Waters, Chatfield Reallocation, Northern Integrated Supply Plan (NISP), Windy Gap Firming, Halligan Enlargement, Seaman Enlargement |

# Portfolio Tool Updates

- Vary IPP yield success rate by basin
- Vary conservation savings by basin
- Change conservation savings baseline to 2000 water usage rates
- Break out Oil Shale from SSI
- Include option to fully use available Colorado River water
- Others in the works:
  - Land Use
  - Incorporate monetary impacts of reduced ag production
  - On/Off switch for loss yield of groundwater
  - Revisions to energy based on Phase II Energy Study
  - Validation with CRWAS
  - Integrate new information from BNDSS

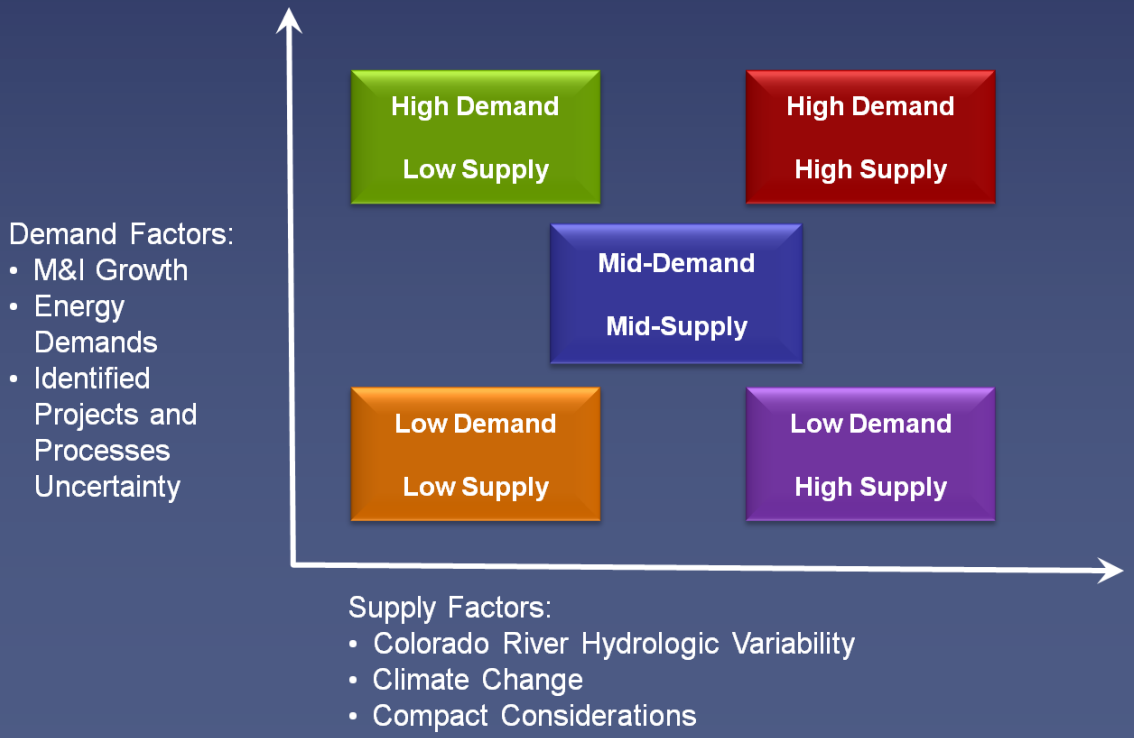
# IBCC Meeting Objective:

- Use the updated Portfolio Tool to refine water supply portfolios for the mid-demand/mid-supply scenario
- Use the IBCC Vision Goals to help evaluate portfolios



# Next Meeting

1. Examine other scenarios
2. Develop Performance Measures for Portfolios
3. Discuss Projects and Methods for the mid-demand/mid-supply scenario

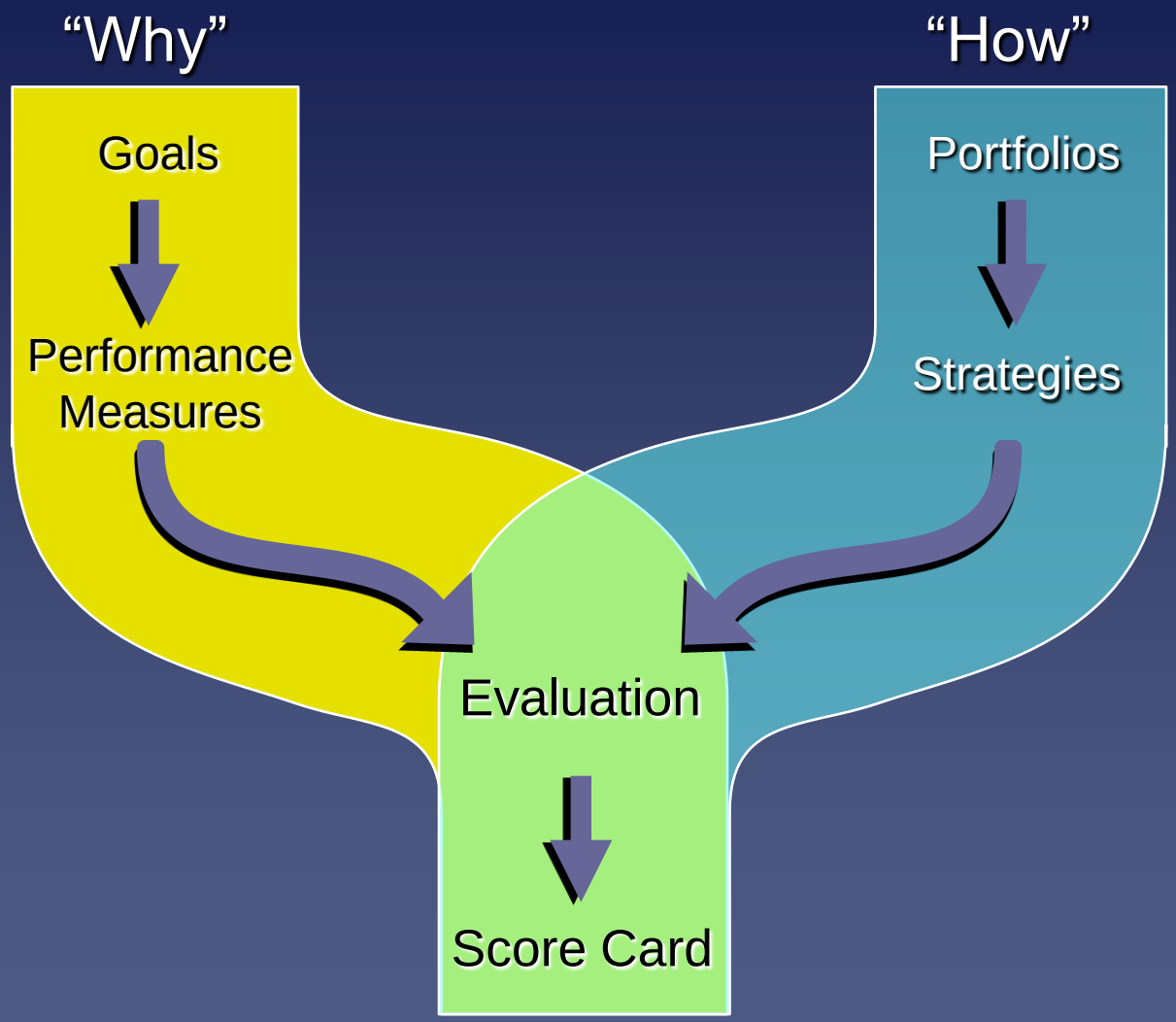


*Discuss Evaluation Criteria*

# Revisit Intent of Process

- What it is:
  - Helps to facilitate discussion and illustrate tradeoffs
  - A tool to help find common ground between diverse interests
  - Provides information to decision-makers about stakeholders' preferences
- What it is not:
  - Majority rules or a "vote" for a preferred portfolio or strategy

# Evaluation “Road Map”

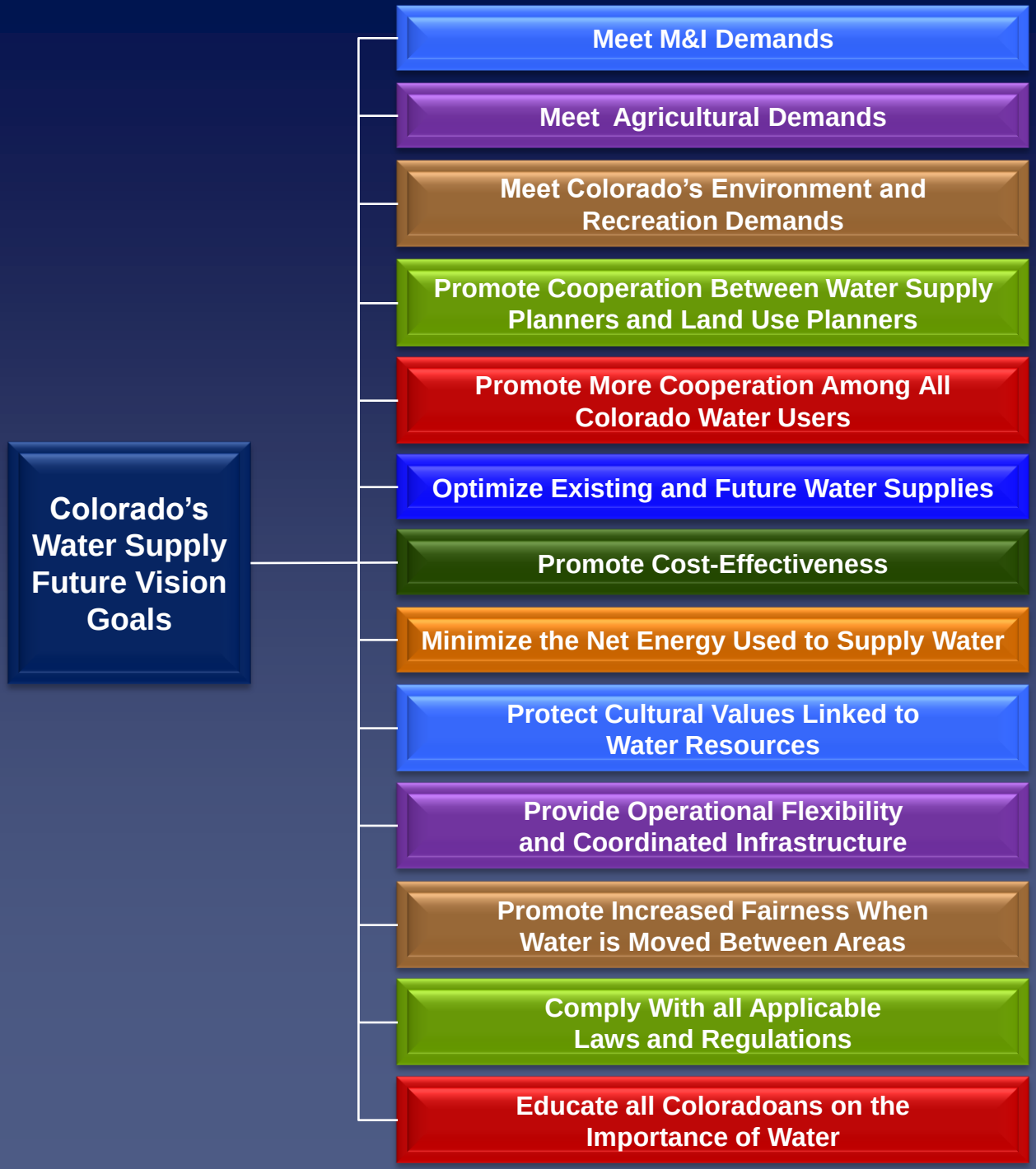



Two parallel tracks of process. One road represents the “why are we doing this” aspect. The other represents the “how will we accomplish this aspect”.

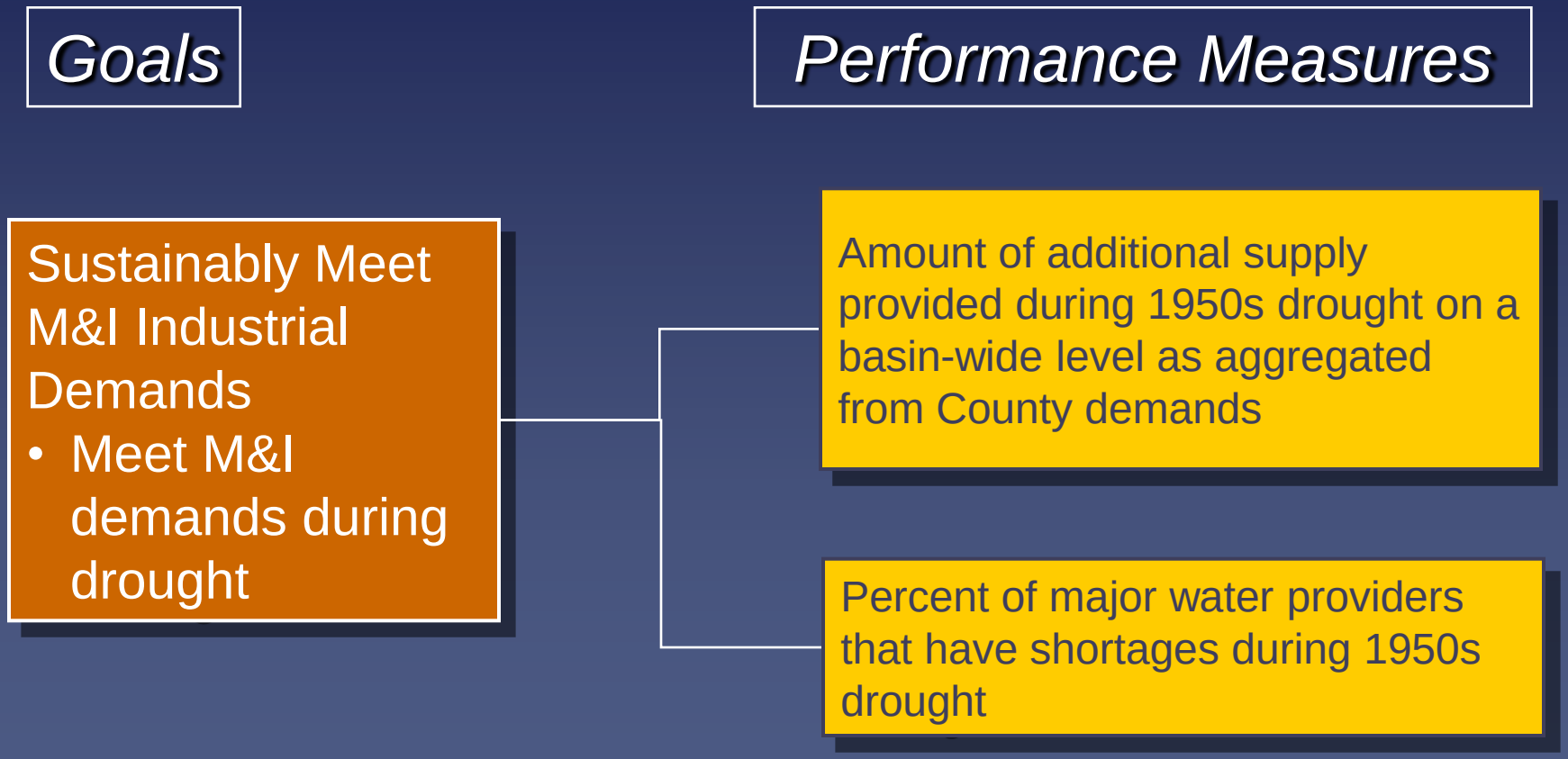
# Overview of Terms

| | |
|---|---|
| Vision Goals | The goals that define the essential purposes of the process – Why? |
| Preferences | The relative importance that stakeholders give to the objectives |
| Portfolios/ Strategies | The means of accomplishing the objectives (which include projects, management options, etc.) – How? |
| Performance Measures | The quantifiable indicators of how well an alternative meets the objectives – How well? |

# Elements of the Visioning Process


Colorado's Water Supply Future Vision Goals
Meet M&I Demands
Meet Agricultural Demands
Meet Colorado's Environment and Recreation Demands
Promote Cooperation Between Water Supply Planners and Land Use Planners
Promote More Cooperation Among All Colorado Water Users
Optimize Existing and Future Water Supplies
Promote Cost-Effectiveness
Minimize the Net Energy Used to Supply Water
Protect Cultural Values Linked to Water Resources
Provide Operational Flexibility and Coordinated Infrastructure
Promote Increased Fairness When Water is Moved Between Areas
Comply With all Applicable Laws and Regulations
Educate all Coloradoans on the Importance of Water

# Performance Measures Indicate How Well Goals are Being Achieved



*Goals*

*Performance Measures*

Sustainably Meet Agricultural Demands

- Meet agricultural demands when and where needed

Amount of additional supply provided during 1950s drought on a basin-wide level

Amount of identified agriculture shortage reduced by alternative

*Goals*

*Performance Measures*

Provide for Environmental Enhancement

- Avoid/mitigate environmental impacts of new projects

On a scale of 1 to 5 in areas with Programmatic Biological Opinions (PBO), 1 reduces flow in PBO area and 5 meets current flow in PBO area.

# IBCC Meeting on Portfolio Development

**Instructions:**

1. List the amount of supply for each broad strategy included in your portfolio:

| | | |
|---|---|---|
| Conservation | _____ | K AFY |
| Ag Transfers | _____ | K AFY (Reuse _____ K AFY ) |
| New Supply | _____ | K AFY (Reuse _____ K AFY ) |
| IPPs | _____ | K AFY |

2. For each Vision Goal, assign a qualitative score for your portfolio, relative to the thematic portfolios as a guide, and provide a brief reason for the score:

● = Good performance ◒ = Medium performance ○ = Poor performance

| | Example Thematic Portfolios | | | | | |
|---|---|---|---|---|---|---|
| **Vision Goals** | **Conservation Portfolio** | **Colorado River/ New Supply Portfolio** | **Ag Transfer Portfolio** | **IPPs Portfolio** | **Your Portfolio** | **Reasons for Score** |
| Meet M&I Demands | | | | | | |
| Meet Ag Demands | | | | | | |
| Meet Environmental & Recreation Demands | | | | | | |
| Promote Cost-Effectiveness | | | | | | |
| Protect Cultural Values | | | | | | |
| Optimize Existing Water Supply | | | | | | |

# *Panel Discussion*

# *Status Quo Portfolio (Ag Transfer)*

- IPP - Success rate varied by basin
- Conservation - 20% reduction from 2000 water usage rates by basin
- New Supply – Future development of CO River water beyond IPPs will occur for uses on the West Slope
- Ag Transfer – Remaining East Slope M&I Demands will be met through ag transfers

# Colorado's Water Supply Future Trade-Off Tool Portfolio Builder IPPs

| IPP Success Rate (% Yield) | |
|---|---|
| Arkansas | 75% |
| Colorado | 90% |
| Gunnison | 90% |
| Metro | 30% |
| North Platte | 90% |
| Rio Grande | 90% |
| South Platte | 45% |
| Southwest | 75% |
| Yampa/White | 90% |

Scenario Builder

Review Portfolio Chart

Portfolio Conservation

Review Portfolio Table

Portfolio Land Use (Under Construction)

Reuse Options

Portfolio Ag Transfer and New Supply

Ag Transfer Options

Specify Individual IPPs

○ Yes ◉ No

# Colorado's Water Supply Future Trade-Off Tool Portfolio Builder Conservation Savings

| | | | |
|---|---|---|---|
| Arkansas | 20% (171 gpcd) | Colorado | 20% (195 gpcd) |
| Gunnison | 20% (181 gpcd) | North Platte | 20% (214 gpcd) |
| Metro | 20% (153 gpcd) | Rio Grande | 20% (282 gpcd) |
| South Platte | 20% (197 gpcd) | Southwest | 20% (176 gpcd) |
| Yampa/White | 20% (184 gpcd) | | |

Reuse Options

Review Portfolio Chart

Scenario Builder

Portfolio Builder

Ag Transfer Options

Review Portfolio Table

Portfolio Land Use (Under Construction)

Portfolio Ag Transfer and New Supply

# Colorado's Water Supply Future Trade-Off Tool
# Portfolio Builder Ag Transfer and New Supply

Remaining M&I need met first through:

- (●) Agricultural Transfer
- ( ) Colorado River

**Specifiy Ag Acres**

If remaining Colorado River System Allocate to East Slope:

( ) Yes (●) No

| | | | |
|---|---|---|---|
| Reuse Options | Review Portfolio Chart | Scenario Builder | Portfolio Builder |
| Ag Transfer Options | Review Portfolio Table | Portfolio Land Use (Under Construction) | Portfolio Conservation |

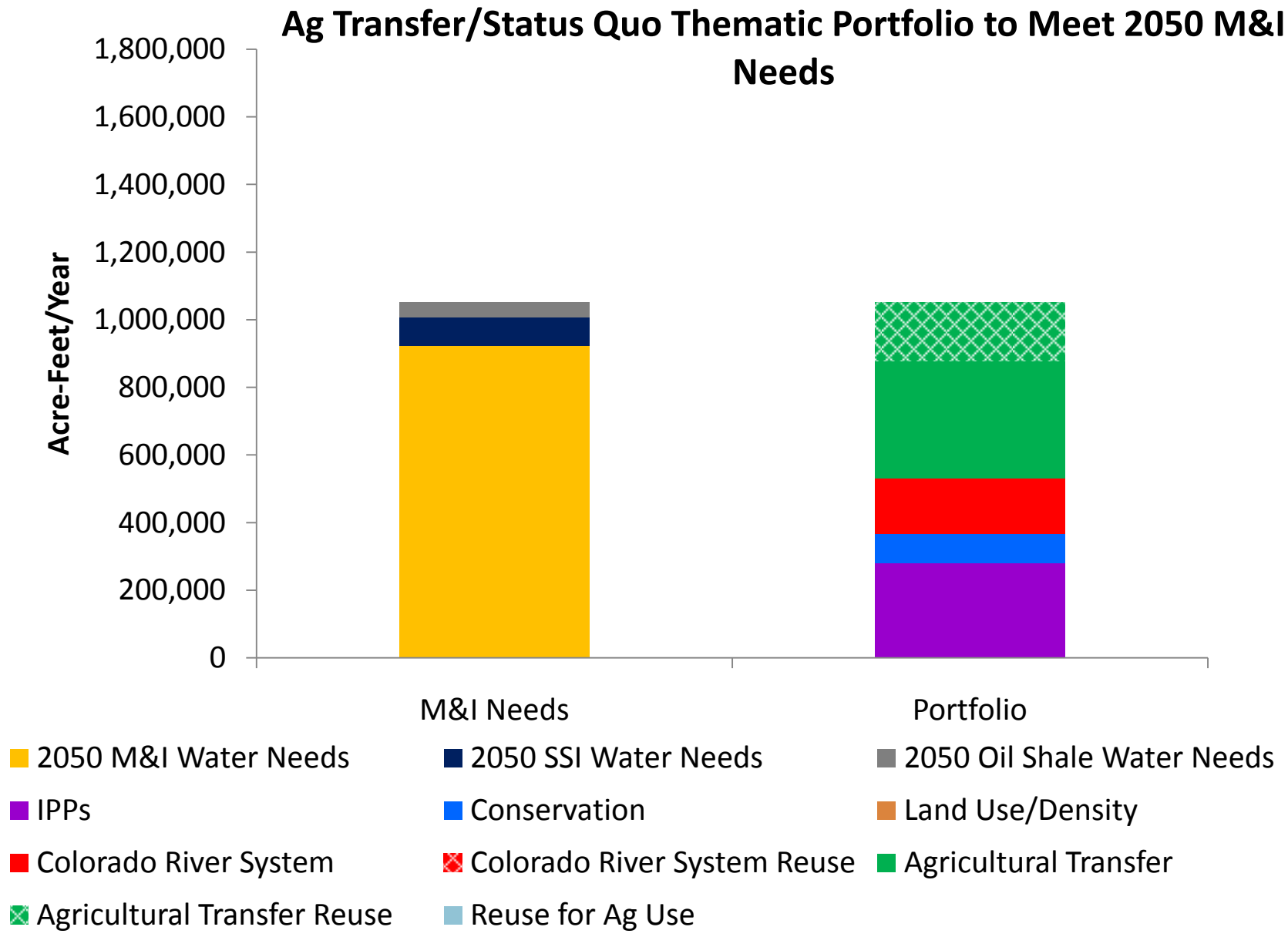
| **M&I Needs** | **Statewide** | **West Slope** | **East Slope** | **North Platte/ Rio Grande** |
|---|---|---|---|---|
| M&I Water Needs (AFY) | 922,800 | 203,100 | 708,500 | 11,200 |
| SSI Water Needs (AFY) | 84,400 | 45,300 | 39,100 | 0 |
| Oil Shale Water Needs (AFY) | 43,700 | 43,700 | 0 | 0 |
| Total M&I Needs (AFY) | 1,050,900 | 292,100 | 747,600 | 11,200 |
| | | | | |
| **Strategies** | | | | |
| IPPs (AFY) | 281,000 | 94,800 | 182,300 | 3,900 |
| Conservation (AFY) | 85,400 | 34,100 | 49,000 | 2,300 |
| New Supply Development (AFY) | 163,200 | 163,200 | 0 | 0 |
| Reuse (AFY) | 0 | 0 | 0 | 0 |
| *New Supply Development Sub-Total (AFY)* | *163,200* | *163,200* | *0* | *0* |
| Ag Transfer (AFY) | 349,300 | 0 | 344,200 | 5,100 |
| Reuse (AFY) | 172,100 | 0 | 172,100 | 0 |
| *Ag Transfer Sub-Total (AFY)* | *521,400* | *0* | *516,300* | *5,100* |
| | | | | |
| **Reduction in Irrigated Acres (percent)** | 19% | 4% | 39% | 1% |
| | | | 28% Arkansas<br>44% South Platte | |
| **Reduction in Irrigated Acres (acres)** | 501,100 | 38,667 | 455,600 | 6,800 |
| | | | 88,200 Arkansas<br>367,400 South Platte | |

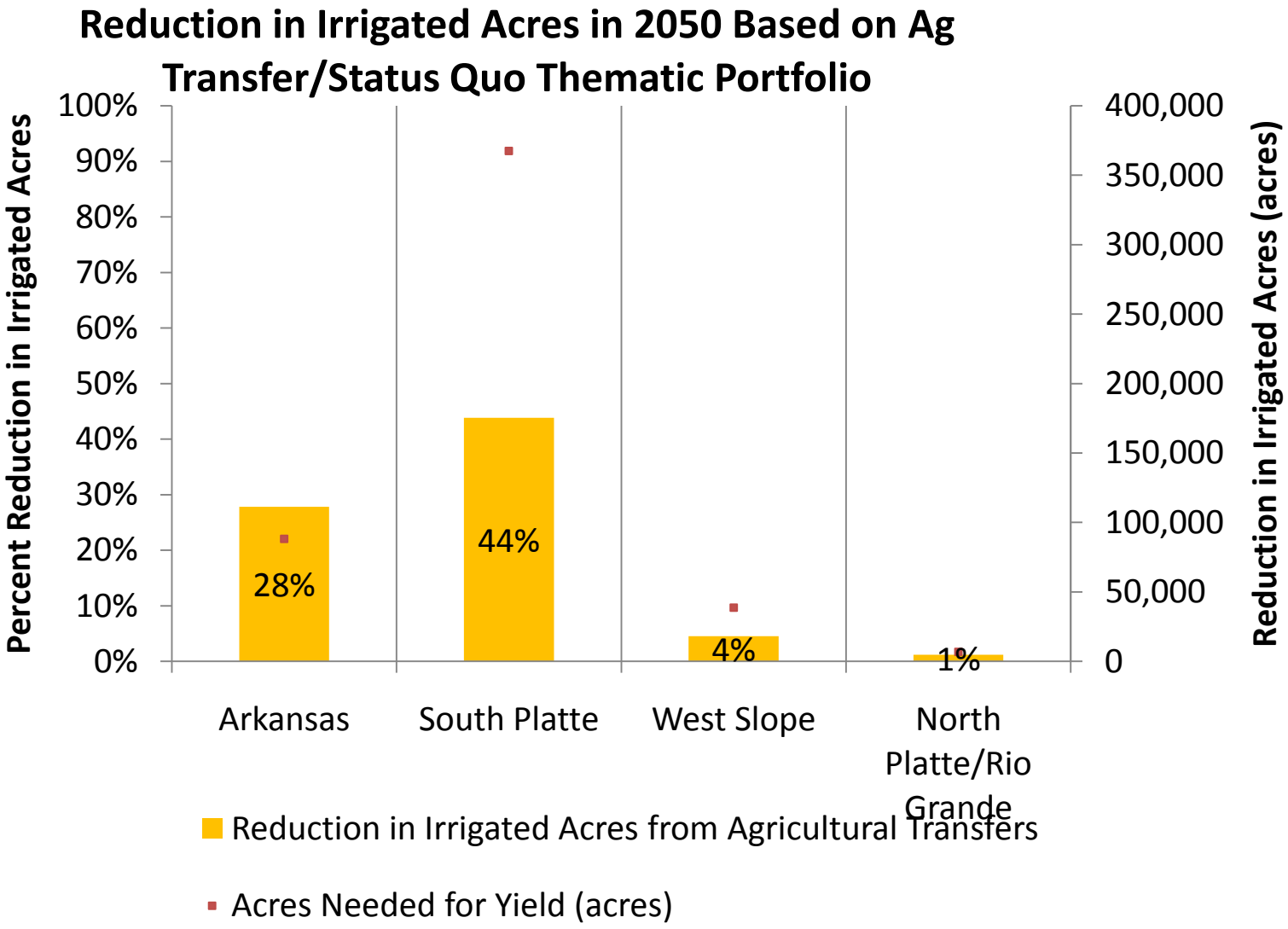
# *Thematic Portfolios*

- One Strategy is changes
- The other 3 Strategies are held constant

# Agricultural Transfer Thematic Portfolio (Status Quo)

- **For the South Platte, Arkansas, Rio Grande, and North Platte, all of the water comes out of agricultural transfer**
- IPPs are at status quo levels described above
- Conservation is at 20% from the year 2000 levels
- The west slope meets its municipal needs using Colorado River water


Ag Transfer/Status Quo Thematic Portfolio to Meet 2050 M&I Needs
Acre-Feet/Year
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
M&I Needs
Portfolio
2050 M&I Water Needs
2050 SSI Water Needs
2050 Oil Shale Water Needs
IPPs
Conservation
Land Use/Density
Colorado River System
Colorado River System Reuse
Agricultural Transfer
Agricultural Transfer Reuse
Reuse for Ag Use


Reduction in Irrigated Acres in 2050 Based on Ag Transfer/Status Quo Thematic Portfolio
Percent Reduction in Irrigated Acres
Reduction in Irrigated Acres (acres)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
28%
44%
4%
1%
Arkansas
South Platte
West Slope
North Platte/Rio Grande
Reduction in Irrigated Acres from Agricultural Transfers
Acres Needed for Yield (acres)

# IBCC Meeting on Portfolio Development

**Instructions:**

1. List the amount of supply for each broad strategy included in your portfolio:

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|---|---|---|
| Conservation | _____ | K AFY |
| Ag Transfers | _____ | K AFY (Reuse _____ K AFY ) |
| New Supply | _____ | K AFY (Reuse _____ K AFY ) |
| IPPs | _____ | K AFY |

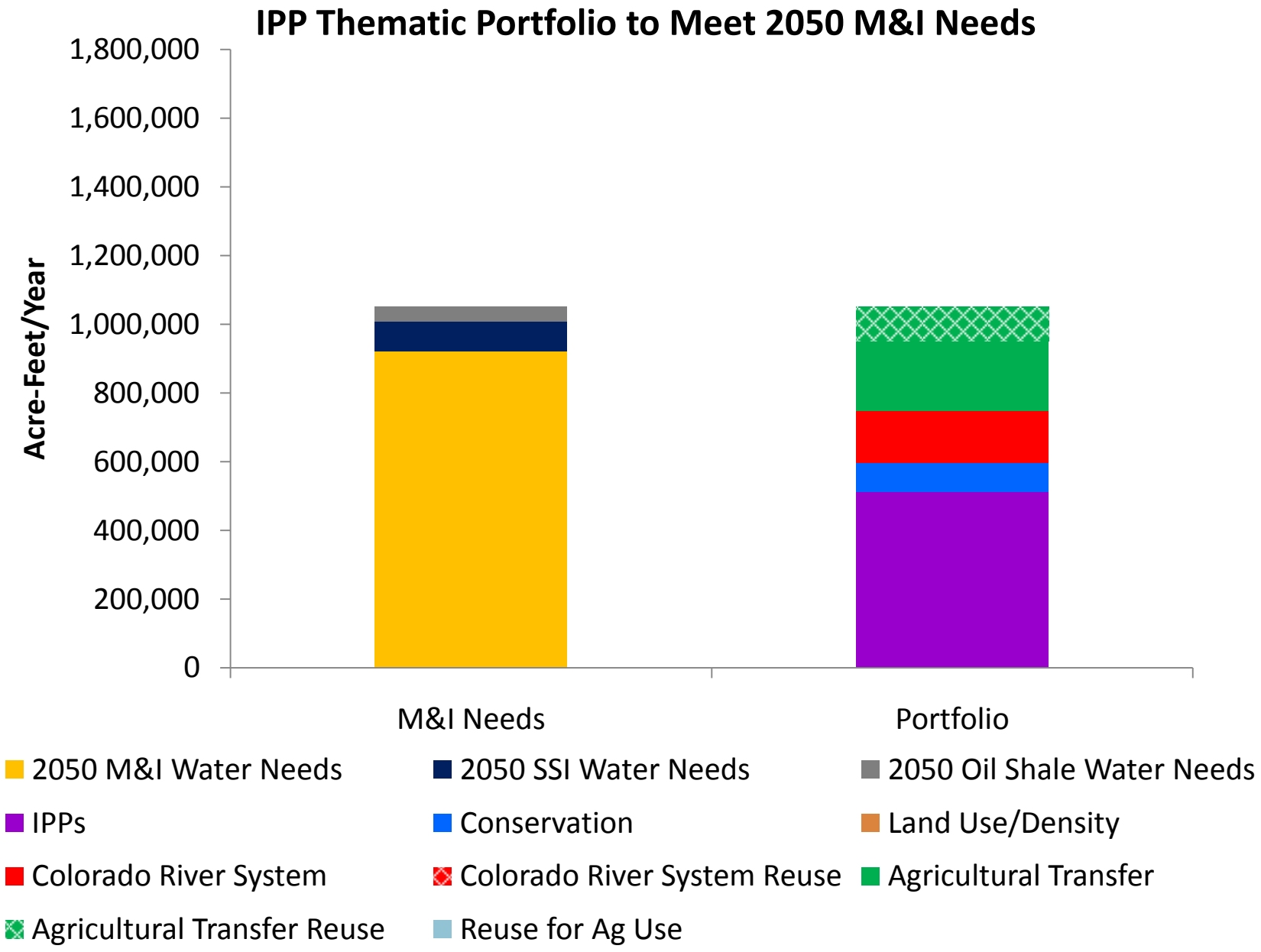
2. For each Vision Goal, assign a qualitative score for your portfolio, relative to the thematic portfolios as a guide, and provide a brief reason for the score:

● = Good performance ◒ = Medium performance ○ = Poor performance

| | Example Thematic Portfolios | | | | | |
|---|---|---|---|---|---|---|
| **Vision Goals** | **Conservation Portfolio** | **Colorado River/ New Supply Portfolio** | **Ag Transfer Portfolio** | **IPPs Portfolio** | **Your Portfolio** | **Reasons for Score** |
| Meet M&I Demands | | | ◒ | | | |
| Meet Ag Demands | | | ○ | | | |
| Meet Environmental & Recreation Demands | | | ◪ | | | |
| Promote Cost-Effectiveness | | | ○ | | | |
| Protect Cultural Values | | | ○ | | | |
| Optimize Existing Water Supply | | | ◒ | | | |

# Identified Projects and Process Thematic Portfolio

- **IPPs are at 100% success rate in all basins**
- Conservation is at 20% from the year 2000 levels
- For the South Platte, Arkansas, Rio Grande, and North Platte, additional water comes out of agricultural transfer
- The west slope meets its municipal needs using Colorado River water


IPP Thematic Portfolio to Meet 2050 M&I Needs
Acre-Feet/Year
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
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600,000
400,000
200,000
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M&I Needs
Portfolio
2050 M&I Water Needs
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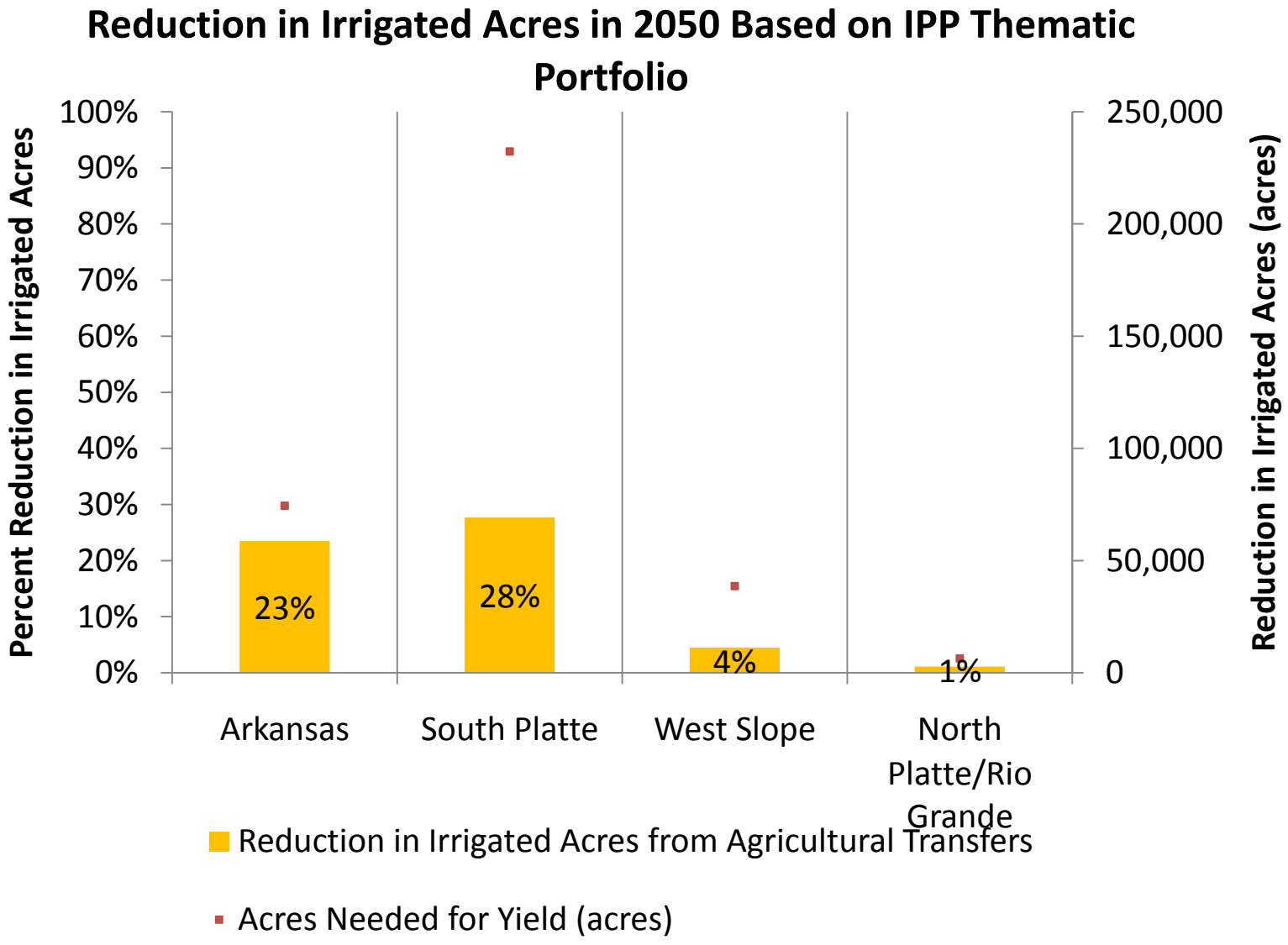
Reuse for Ag Use


Reduction in Irrigated Acres in 2050 Based on IPP Thematic Portfolio
Percent Reduction in Irrigated Acres
Reduction in Irrigated Acres (acres)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
250,000
200,000
150,000
100,000
50,000
0
23%
28%
4%
1%
Arkansas
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| IPPs | _____ | K AFY |

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| | Example Thematic Portfolios | | | | | |
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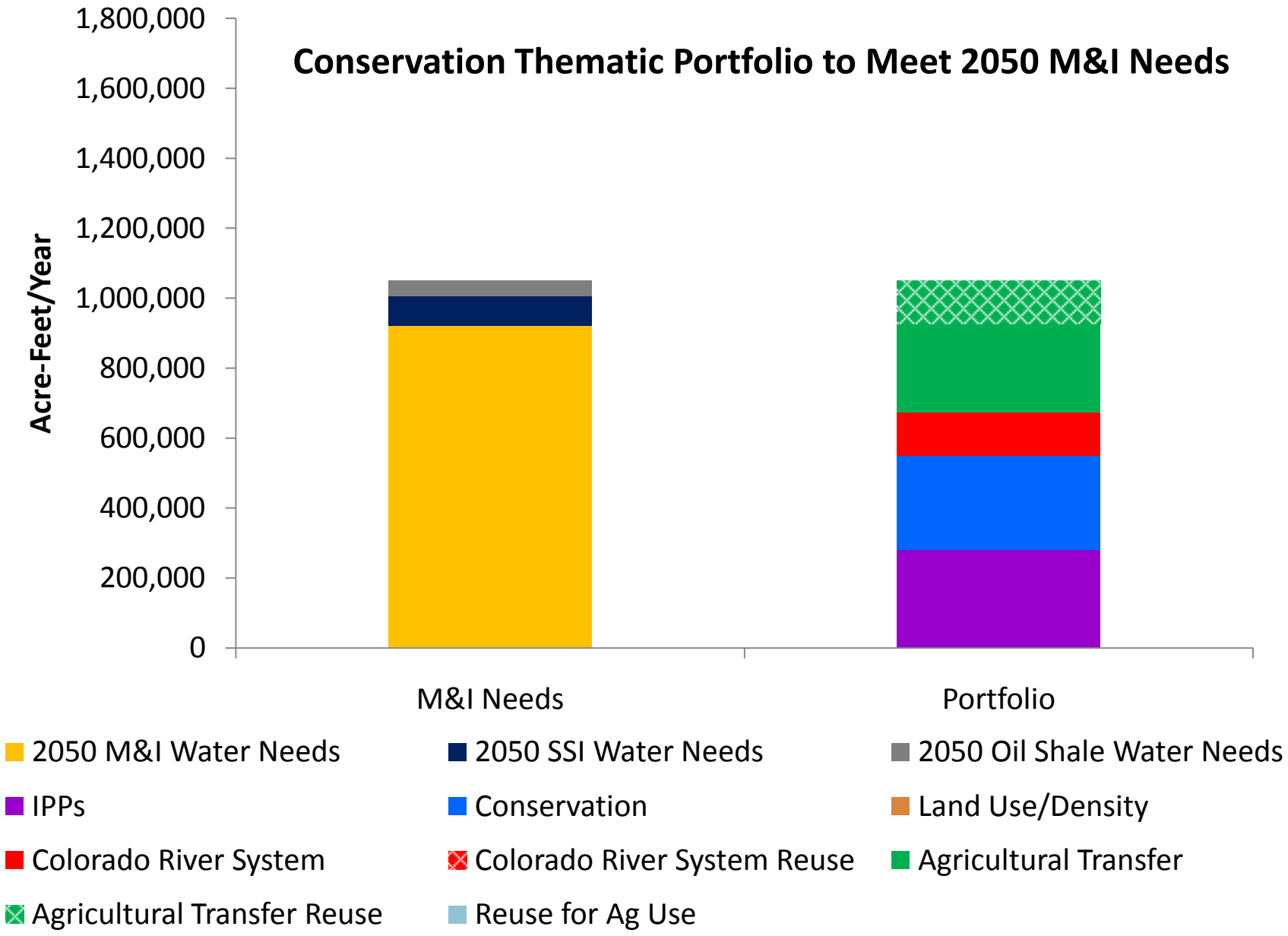
| Meet Ag Demands | | | ○ | | | |
| Meet Environmental & Recreation Demands | | | ◪ | | | |
| Promote Cost-Effectiveness | | | ○ | | | |
| Protect Cultural Values | | | ○ | | | |
| Optimize Existing Water Supply | | | ◒ | | | |

# Conservation Thematic Portfolio

- **Conservation is at 40% from the year 2000 levels**
- IPPs are at status quo levels described above.
- Next increment of water to meet demands on the South Platte, Arkansas, Rio Grande, and North Platte are from agricultural transfer
- To meet demands on the west slope an increment of supply is used from the Colorado River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1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
M&I Needs
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2050 Oil Shale Water Needs
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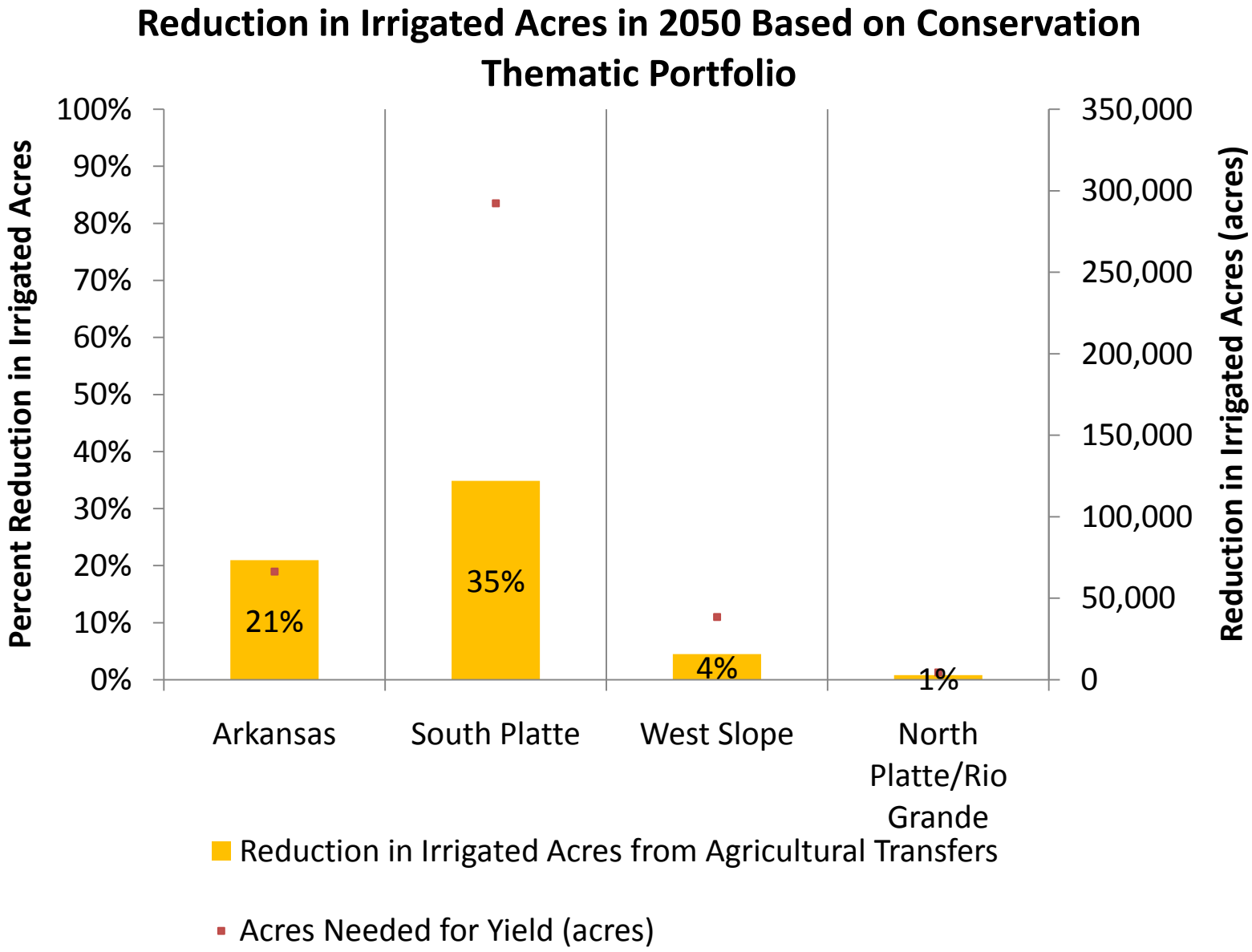
Agricultural Transfer Reuse
Reuse for Ag Use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Percent Reduction in Irrigated Acres
Reduction in Irrigated Acres (acres)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
21%
35%
4%
1%
Arkansas
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West Slope
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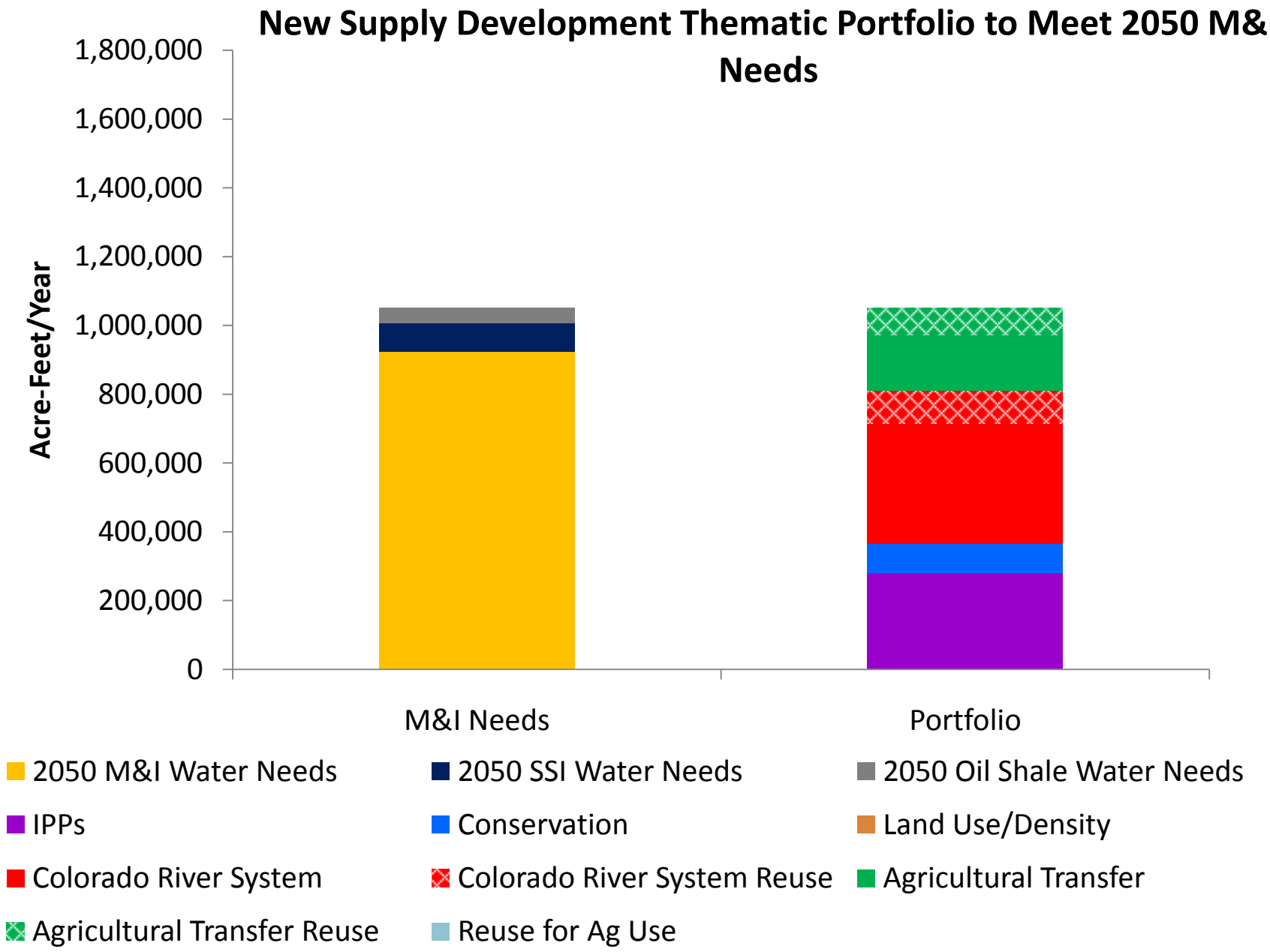
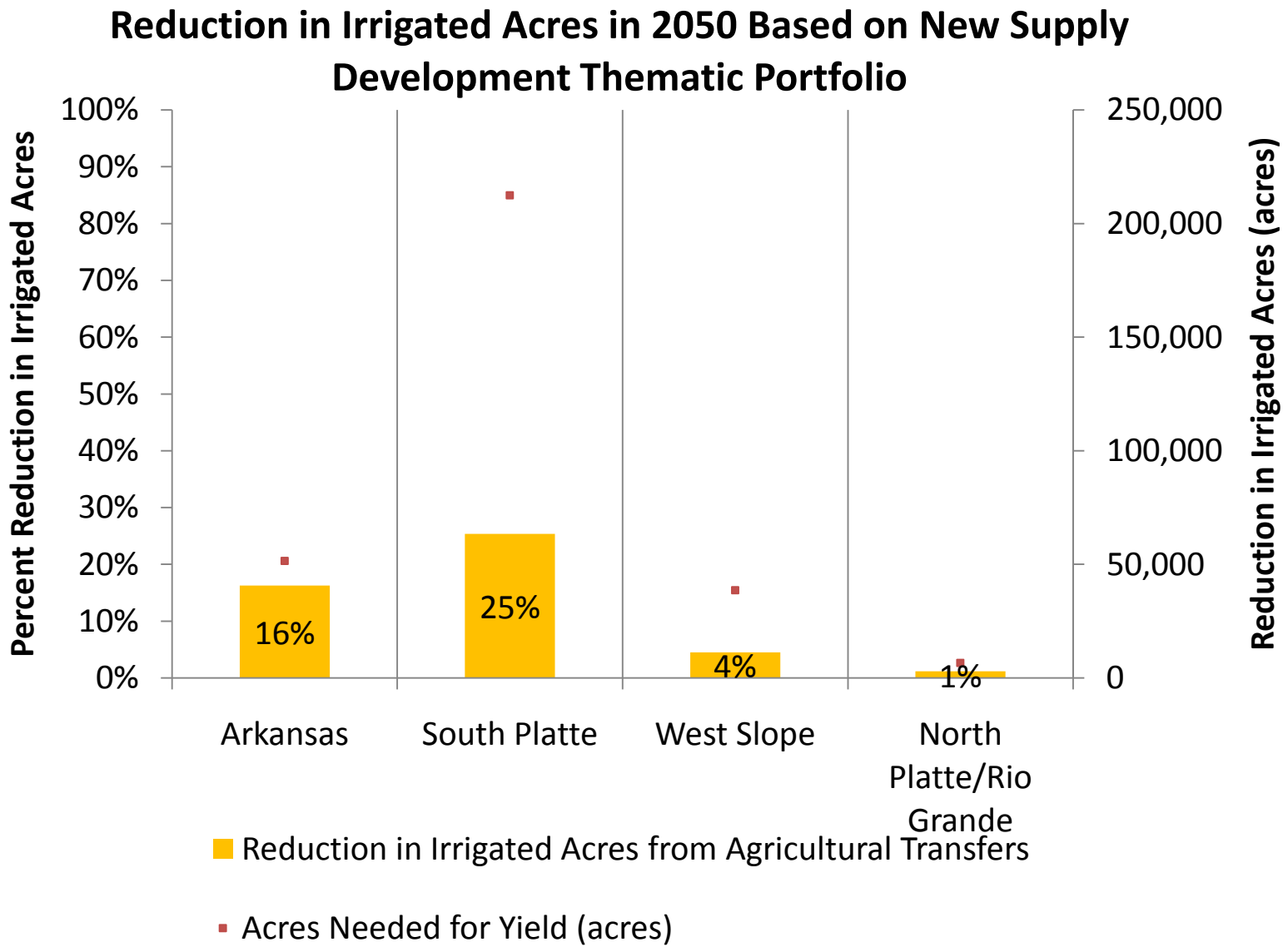
| Meet M&I Demands | | | ◒ | | | |
| Meet Ag Demands | | | ○ | | | |
| Meet Environmental & Recreation Demands | | | ◪ | | | |
| Promote Cost-Effectiveness | | | ○ | | | |
| Protect Cultural Values | | | ○ | | | |
| Optimize Existing Water Supply | | | ◒ | | | |

# Colorado River System/New Supply Development Thematic Portfolio

- **The Colorado River water available under the mid-supply scenario (350,000 a.f.) is fully used by both the east and west slope**
- **I**PPs are at status quo levels described above.
- Conservation is at 20% from the year 2000 levels
- Remaining supply needed is filled from agricultural transfer for all basins


New Supply Development Thematic Portfolio to Meet 2050 M&I Needs
Acre-Feet/Year
1,800,000
1,600,000
1,400,000
1,200,000
1,000,000
800,000
600,000
400,000
200,000
0
M&I Needs
Portfolio
2050 M&I Water Needs
2050 SSI Water Needs
2050 Oil Shale Water Needs
IPPs
Conservation
Land Use/Density
Colorado River System
Colorado River System Reuse
Agricultural Transfer
Agricultural Transfer Reuse
Reuse for Ag Use


Reduction in Irrigated Acres in 2050 Based on New Supply Development Thematic Portfolio
Percent Reduction in Irrigated Acres
Reduction in Irrigated Acres (acres)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
250,000
200,000
150,000
100,000
50,000
0
16%
25%
4%
1%
Arkansas
South Platte
West Slope
North Platte/Rio Grande
Reduction in Irrigated Acres from Agricultural Transfers
Acres Needed for Yield (acres)

# IBCC Meeting on Portfolio Development

**Instructions:**

1. List the amount of supply for each broad strategy included in your portfolio:

| | | |
|---|---|---|
| Conservation | _____ | K AFY |
| Ag Transfers | _____ | K AFY (Reuse _____ K AFY ) |
| New Supply | _____ | K AFY (Reuse _____ K AFY ) |
| IPPs | _____ | K AFY |

2. For each Vision Goal, assign a qualitative score for your portfolio, relative to the thematic portfolios as a guide, and provide a brief reason for the score:

● = Good performance ◒ = Medium performance ○ = Poor performance

| | Example Thematic Portfolios | | | | | |
|---|---|---|---|---|---|---|
| **Vision Goals** | **Conservation Portfolio** | **Colorado River/ New Supply Portfolio** | **Ag Transfer Portfolio** | **IPPs Portfolio** | **Your Portfolio** | **Reasons for Score** |
| Meet M&I Demands | | | ◒ | | | |
| Meet Ag Demands | | | ○ | | | |
| Meet Environmental & Recreation Demands | | | ◪ | | | |
| Promote Cost-Effectiveness | | | ○ | | | |
| Protect Cultural Values | | | ○ | | | |
| Optimize Existing Water Supply | | | ◒ | | | |

*Breakout Groups*

# Breakout Group Instructions

- Purpose of exercise is to construct a portfolio to meet the 2050 new demand – 1,050,850 AFY
- Use portfolio tool to determine the amounts future demands from IPPs, conservation, ag transfers and new supply development
- Assign qualitative score to each vision goal for the developed portfolio
- Provide reasons for score for each vision goal

*Technical Support for the Interbasin Compact Process, Basin Roundtable Needs Assessments, and Schedule*

# Technical Support for the Interbasin Compact Process, Basin Roundtable Needs Assessments, and Schedule

- Draft reports
- Key findings
- Next steps
- Schedule

# The Following Draft Reports are Available

- State of Colorado 2050 Municipal and Industrial Water Use Projections
- Nonconsumptive Needs Assessment Priorities Mapping
- Watershed Flow Evaluation Tool Pilot Study for Roaring Fork and Fountain Creek Watersheds and Site-Specific Quantification Pilot Study for Roaring Fork Watershed
- Evaluation of Water Supply Strategies

*To access the reports visit:*
*http://cwcb.state.co.us/IWMD/COsWaterSupplyFuture/*

# M&I Demands

- CWCB Staff have gathered comments on M&I Demands to 2050 report
- CWCB will respond to comments and revise report 2nd quarter of next year
- Report will be included as an appendix to statewide update of consumptive and nonconsumptive needs – October 2010

# Nonconsumptive Focus Areas Mapping

- CWCB Staff have gathered feedback on report
- CWCB will respond to comments and revise report
- Report will be included as a section in the statewide update of consumptive and nonconsumptive needs – October 2010

# Nonconsumptive Projects and Methods

- CWCB will examine past studies:
  - Existing studies and plans by "ISF recommending entities"
  - Watershed restoration plans and flood DSS for identified restoration projects
  - Other relevant restoration and quantification studies, plans and processes
  - Other WSRA funded studies or Basin Roundtable Studies
- Information will be summarized by focus area
- Results will be included in statewide update of consumptive and nonconsumptive needs – October 2010

# Agricultural shortages

- CWCB will update the agricultural shortages from SWSI 1
- CWCB will summarize results of Yampa and Gunnison Agricultural WSRA studies
- CWCB will review information with roundtables 1st and 2nd quarter 2010
- Information will be included in statewide update – October 2010
- CWCB will also review the Alternative Agricultural Transfer Methods Grant Projects

# Consumptive Gap Analysis

- CWCB will update M&I gap analysis from SWSI 1 using updated IPP database
- CWCB will update agricultural shortages statewide
- CWCB will review information with roundtables 1st and 2nd quarter 2010
- Information will be included in report updating consumptive and nonconsumptive needs statewide – October 2010

# Report summarizing needs assessments (October, 2010)

- CWCB will provide update of statewide consumptive and nonconsumptive needs based on recent reports and Basin Roundtable Needs Assessment efforts
- Target completion date of report is October 2010

*CRWAS*