

MARCH 5, 2020
DM WORKGROUP
WORKSHOP



WELCOME

CWCB DIRECTOR - BECKY MITCHELL



COLORADO
Colorado Water
Conservation Board

Department of Natural Resources
1313 Sherman Street, Room 718
Denver, CO 80203

TO: Colorado water users, stakeholders, and other interested parties
FROM: Director Rebecca Mitchell
DATE: January 24, 2020
SUBJECT: Demand Management Feasibility Investigation Update

As we look forward into 2020, the Colorado Water Conservation Board (CWCB) continues the important work of investigating whether a Demand Management program would be feasible and advisable for the State of Colorado. Demand Management is the concept of temporary, voluntary, and compensated reductions in the consumptive use of water in the Colorado River Basin. Any water saved would be used only to ensure compact compliance and to protect the state's water users from involuntary curtailment of uses.

The Drought Contingency Plan, a suite of agreements among the seven Colorado River Basin States, was executed in May 2019, and provided the opportunity to begin initial discussions about a potential Demand Management program in the Upper Colorado River Basin. All Upper Basin States, including Colorado, are currently conducting their own feasibility investigations. Though these states recognized that Demand Management may be a mechanism for ensuring ongoing compact compliance, they also recognized that significant stakeholder outreach and interstate coordination would need to come first. In the event that Colorado reaches the conclusion that Demand Management is feasible and advisable, all other Upper Colorado River Basin States must agree to key elements before any program could be created.

Colorado's investigation is guided by the 2019 Demand Management [Work Plan](#), which was adopted by the Colorado Water Conservation Board. The Plan provides a framework for initial stages of the investigation, including: workgroups, regional workshops, and education and outreach.

Since the CWCB's [June 2019 update](#) on Demand Management, the workgroups have met multiple times across the state to identify issues associated with a potential Demand Management program. Workgroups consist of experts in Colorado River issues and water management, along with water stakeholders. All meetings have been open to the public. Meeting details and reports are available on the [CWCB website](#). In addition, the IBCC is aiding in

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Jared Polis, Governor | Dan Gibbs, DNR Executive Director | Rebecca Mitchell, CWCB Director



IBCC OVERVIEW

- State Engineer Presentation
- The Value of IBCC
- Equity Discussion

IBCC DIRECTOR - RUSS GEORGE

IFWI SECTION

- ATM Pilot Program Grant
- Weather Mod Update
- Feasibility Study Update

Poll Everywhere Question

How clear do you feel the definition of Demand Management is (temporary, voluntary, compensated)?

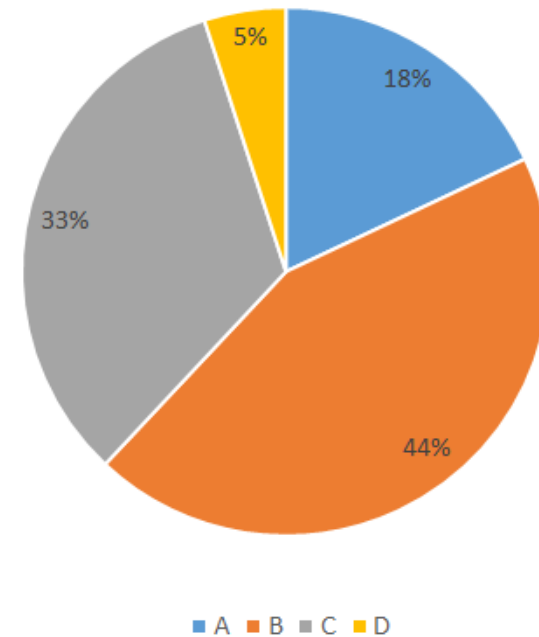
A. Not confusing at all – no need to keep repeating them

B. Not confusing but there are some gray areas

C. Somewhat confusing – please refine

D. Really confusing - find new words!

Percentage of Responses

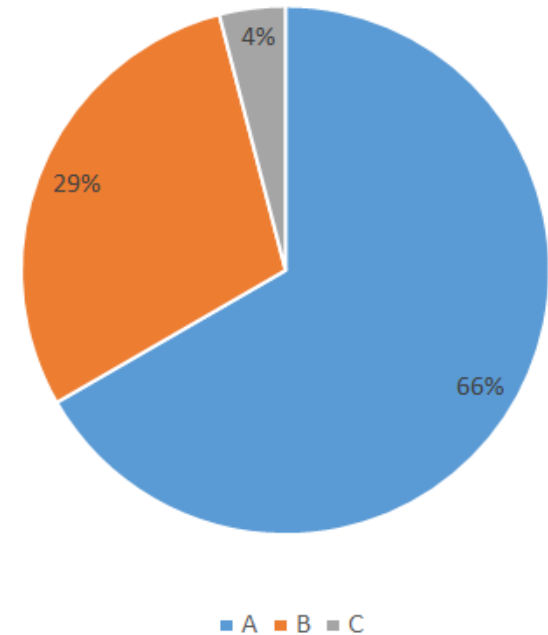


Poll Everywhere Question

I think:

- A. A DM Program could be helpful if done correctly
- B. A DM Program might be a good idea but I need to know more
- C. We should NOT have a DM program at all

Percentage of Responses





A LOOK BACK

IFWI DEPUTY SECTION CHIEF – AMY OSTDIEK

Workgroup Progress

Workgroups to meet four times before June 2020.

Workgroup discussions diverging in some ways, coalescing in others.

Project Management Team will report to the Board on progress in July 2020.

What We've Heard

Equity is always part of the discussion. But how is it defined?

Desire for more structured approach to analyzing issues.

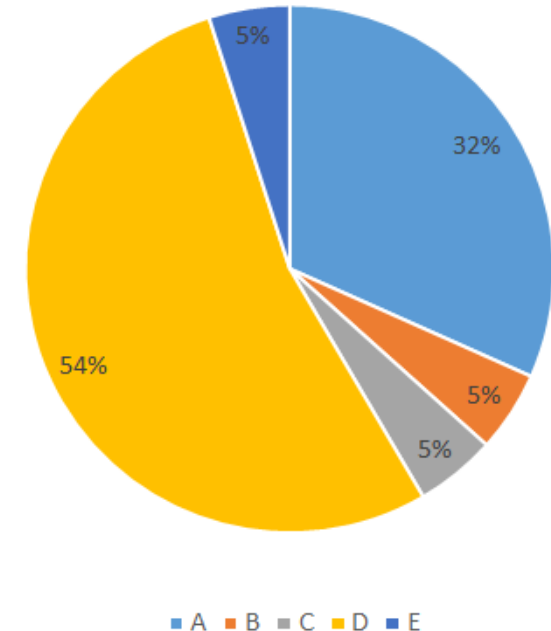
But let's not move too quickly.

Poll Everywhere Question

Which one of these statements have you heard before?

- A. “There’s a target on west slope Ag”
- B. “The state already has as DM program figured out”
- C. “A voluntary program is a set-up to make a permanent program”
- D. All of the above
- E. None of the Above, but I’ve heard worse

Percentage of Responses



THE FUNDING WG

WSP SECTION CHIEF – RUSS SANDS

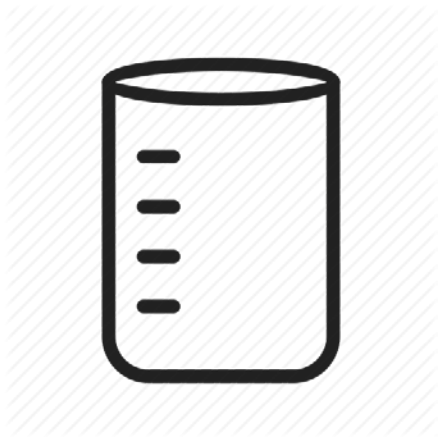


We've Also Heard

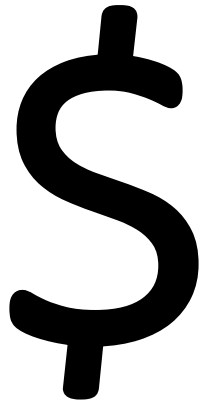
“Workgroups won’t get very far if they don’t have a strawman to use to explore various branches that allow them to look at a variety of possible futures.”

“We need some sort of conceptual scenario or something we can throw at the wall to explore and run down how one idea might play out.”

FUNDING WORKGROUP - SIMPLE MATH



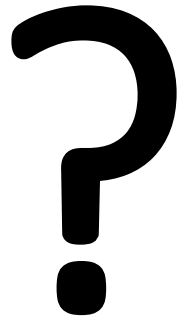
x



x



=



VOLUME

COST

TIME

NEED

FROM THE FUNDING WG ... AND OTHER WGS

- Want parameters
- Want to know what other working groups are doing
- Want to be clear DM is not a forgone conclusion
- Discussed a range of alternate options but has lacked structure.

UNCERTAINTY

1. Upper Basin Agrees to DM?
2. Storage Pool Target (kAF)?
3. Cost of Effort?
4. Participants?
5. Acute or Chronic?
6. Storage Options?
7. Years?



1. Upper Basin Agrees to DM?

2. Storage Pool Target (kAF)?

























3. Available Money?

4. Participants?

5. Acute or Chronic?

6. Storage Options?

7. Years?

Upper Basin Agrees to DM	NO	YES	YES	YES	YES
Target Water Goal (kAF)					
Available Money					
Amount DM Participants	N/A				
Acute (🚰) or Chronic (🚰)					
Reservoir Storage Options All CRSP Units vs. Only Powell					
Year To Reach Total KAF	10 YEARS	5 YEARS	5 YEARS	15 YEARS	10 YEARS













UNCERTAINTY: WHAT ELSE IS OUT OF OUR CONTROL?

uncertain
future factors

Climate?

Population?

Plausible combinations of uncertainties

Upper Basin Agrees to DM	NO	YES	YES	YES	YES
Target Water Goal (kAF)					
Available Money					
Amount DM Participants	N/A				
Acute (🔴) or Chronic (🟢)					
Reservoir Storage Options All CRSP Units vs. Only Powell					
Year To Reach Total KAF	10 YEARS	5 YEARS	5 YEARS	15 YEARS	10 YEARS
NEW ROW					
NEW ROW					
NEW ROW					

IN EVALUATING WHAT'S FEASIBLE

WE WANT TO BE ABLE TO UNDERSTAND & SUMMARIZE THE IDEAS WE'VE HEARD,

WHICH MIGHT ALLOW US TO:



EXPLORE A RANGE OF POTENTIAL FUTURES THAT CONSIDER:

- VARIOUS UNCERTAINTIES
- POTENTIAL ACTIONS (or Inaction)
- WHAT WORKS BETTER OR WORSE FROM VARIOUS PERSPECTIVES OF THE WORKGROUPS



BETTER UNDERSTANDING KEY WORKGROUP ISSUES HELPS UNCOVER:

- HOW DIFFERENT WG IDEAS MAY
IMPACT ANOTHER WG'S THOUGHT PROCESS
- SELF IDENTIFIED WG PRIORITIES
- UNDERSTANDING WHAT NEEDS MORE RESEARCH

- RAND is a non-profit, non-partisan policy research organization
- Mission is to improve public policy decisionmaking



RAND
CORPORATION

David Groves
Co-Director Climate Resilience Center
Co-Director Center for Decision Making
Under Uncertainty

RAND Supports Long-term Water Resources Planning

- RAND supported 2012 Colorado River Basin Study by helping evaluate thousands of plausible futures
- RAND works with Colorado front range water utilities apply new planning methodologies
- RAND help develop planning scenarios for the City of Boulder



Good Water Resources Planning Accounts for the Wide Range of Viewpoints

What could the world look like?



What is important to me/us?



What could I/we do?



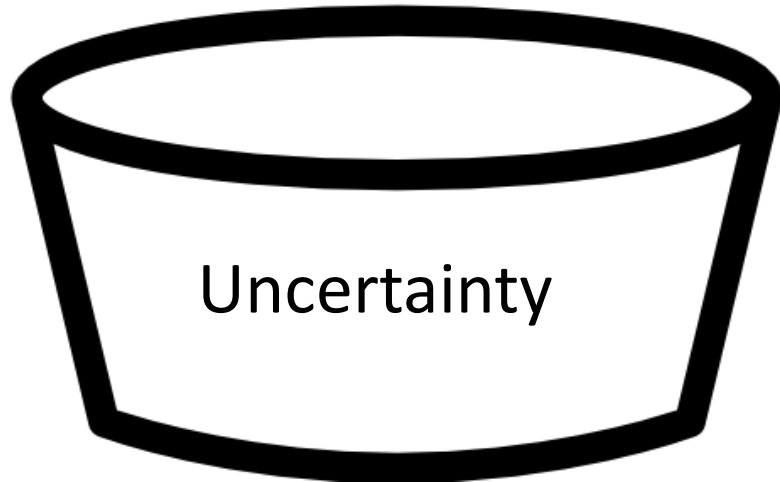
The Concept of Demand Management Raises Many Questions

- **Demand Management program could be a tool to help Colorado meet its compact obligations**
- But....
 - Who is impacted?
 - What might be the effects on communities?
 - Will everyone do their fair share?
 - How do we know what future needs may be?
 - We're not ready to commit to anything yet!

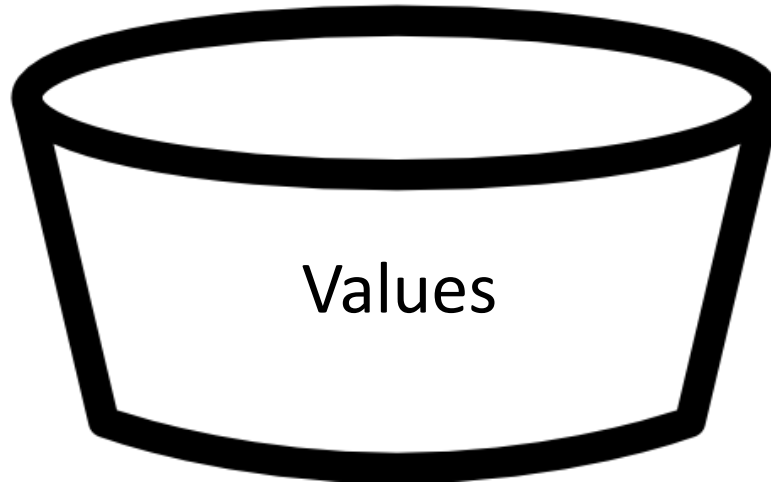


One of Today's Goals Is to Help Organize Your Concerns to Develop a Common Understanding

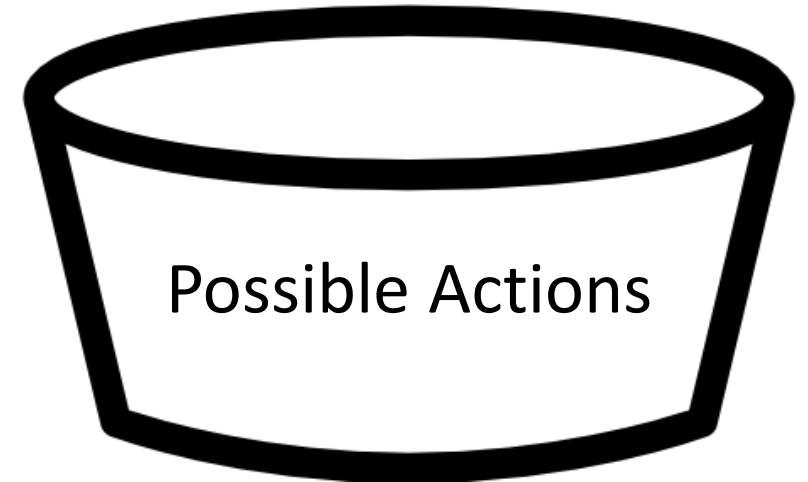
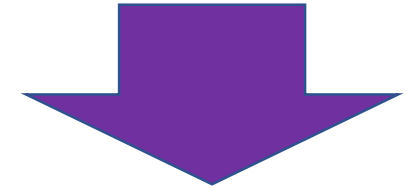
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What is important to me/us?



What could I/we do?



Example Concerns Organized in Three Categories

What could the world look like?

- Amount of water
- Cost of conservation incentives
- Participation rates and patterns

Uncertainty

What is important to me/us?

- Impact to my community
- Ecosystem effects
- Fairness and equity

Values

What could I/we do?

- Keep things as they are
- Demand Management program of different designs
 - Timing of program
 - Participation parameters

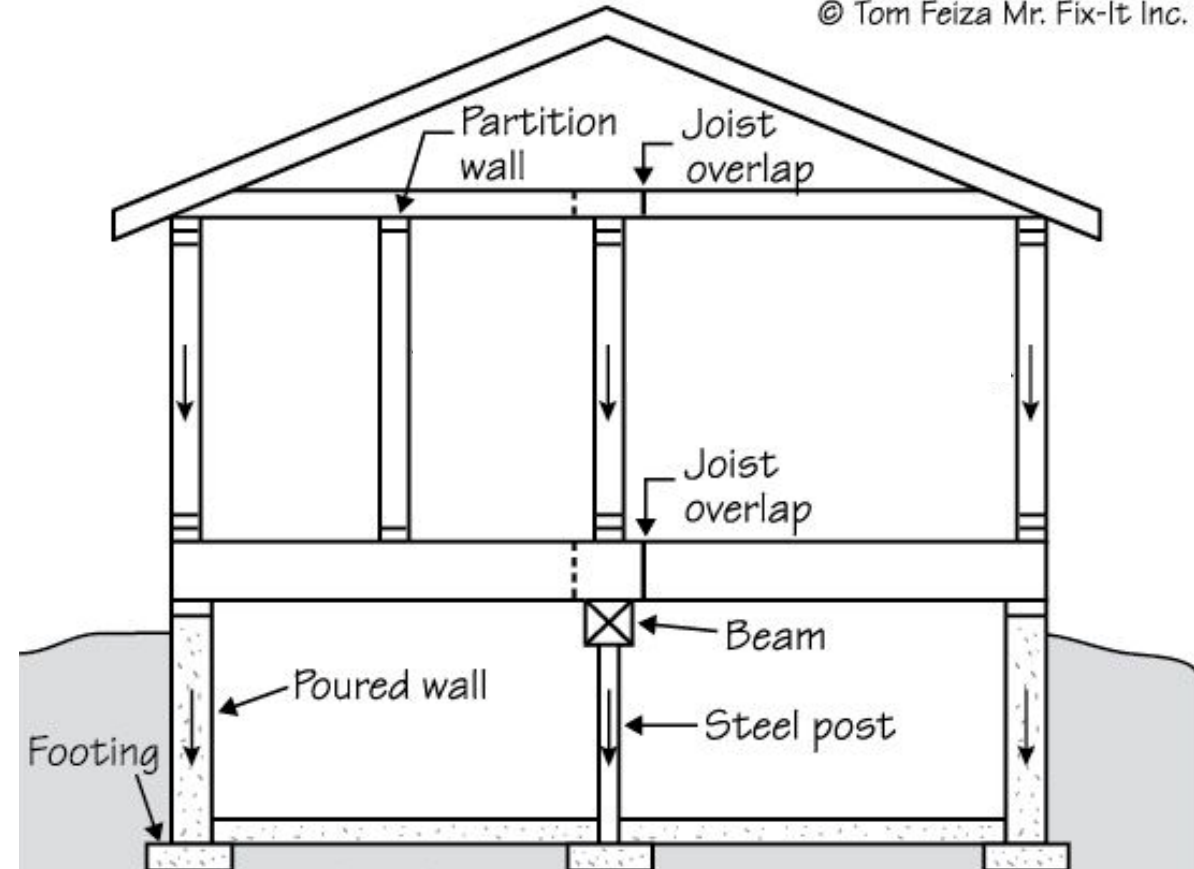
Possible Actions

This Framework Helps Daylight Assumptions Underlying Potential Actions....

- Ideas are proposed based on *assumptions* of their costs and benefits to society
- Some assumptions, if they do not come to pass, are okay
- Other assumptions must hold for the implementation to be successful
 - Load-bearing assumptions

Assumptions are like the framing that holds up a house

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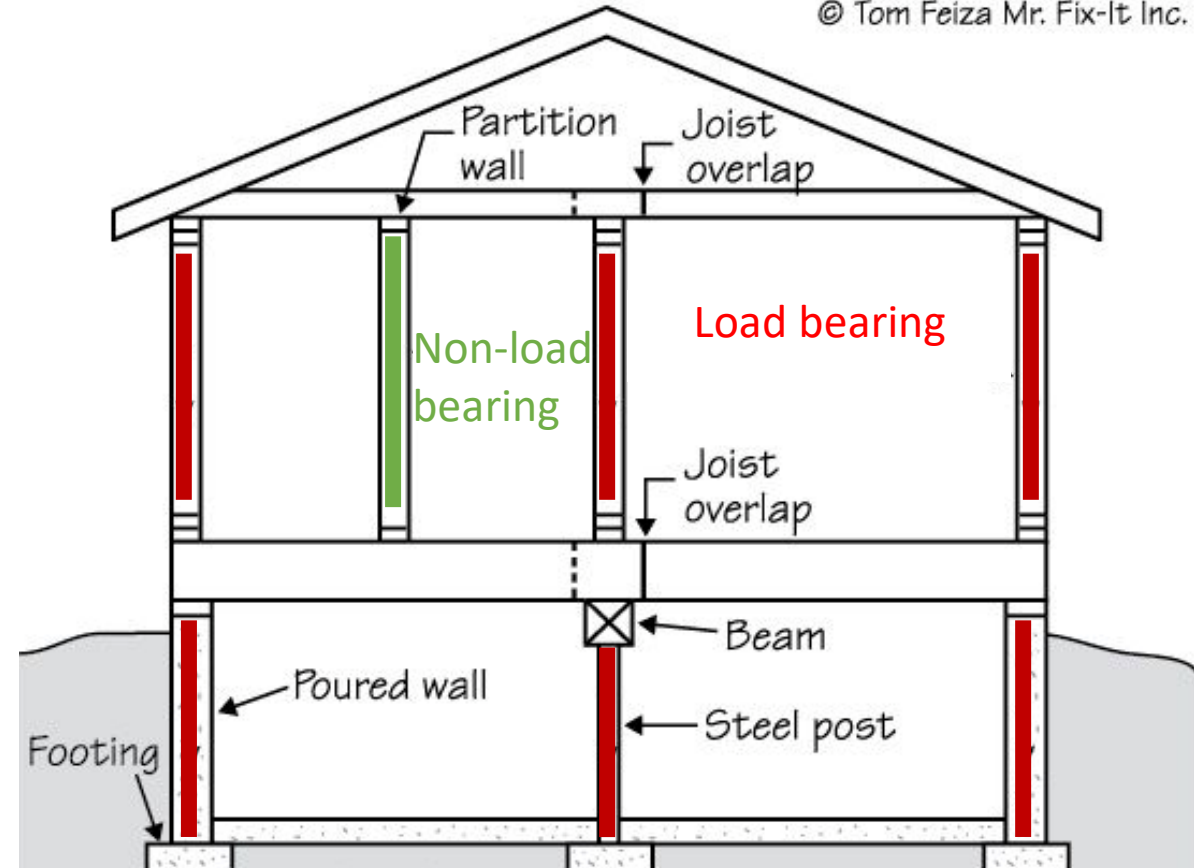


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- Ideas are proposed based on *assumptions* of their costs and benefits to society
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We need to identify which assumptions are load bearing

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...and Summarize What Future Outcomes We Care About Most

What lens(es) should we use when evaluate possible actions:

- Water to support our activities
- Healthy flows for ecosystems and recreation
- Community impacts
- Costs
- Others



How your input helps shape the discussion

- Documenting and organizing concerns will *ensure that you are heard*
- Comprehensive list of uncertainties can be used to develop qualitative narrative “scenarios” or some other organizational framework for summarizing input.
- Complete set of values will ensure that your interests are accounted for in future policy design

THOUGHT EXERCISE GOALS:

- START TO HELP ORGANIZE THOUGHTS
- HAVE GROUPS MEET TOGETHER
- SEE IF THE FUNDING WORKGROUP CONCEPT HELPS ORGANIZE WG INPUT

AGENDA & LOGISTICS:

- WHERE TO GO FOR BREAKOUT SESSIONS
- BREAKOUT #1
- BREAKOUT #2
- LUNCH
- REPORT OUT
- BREAKOUT #3

PANEL REPORT OUT & INPUT REVIEW



PANEL QUESTIONS

- 1) Share your story and/or some key issues your workgroup discussed.
- 2) Tell us something that meeting with another workgroup made you think more about.

DOT VOTE RESULTS: TOP VALUES ACROSS WORKGROUPS

Statewide resilience

Secure/dedicated funding source

Multiple funding sources

Ag viability

Shared responsibility

Voluntariness

Simplicity of Monitoring and
Verification

Doability and Scalability

Inclusivity

Connectivity

Messaging Connects with the Audience

Respect and Empowerment

Environmental impacts

Location

Timing of impacts

Support/Benefit to local economy

Clear grant criteria

Transparency

Non-injury

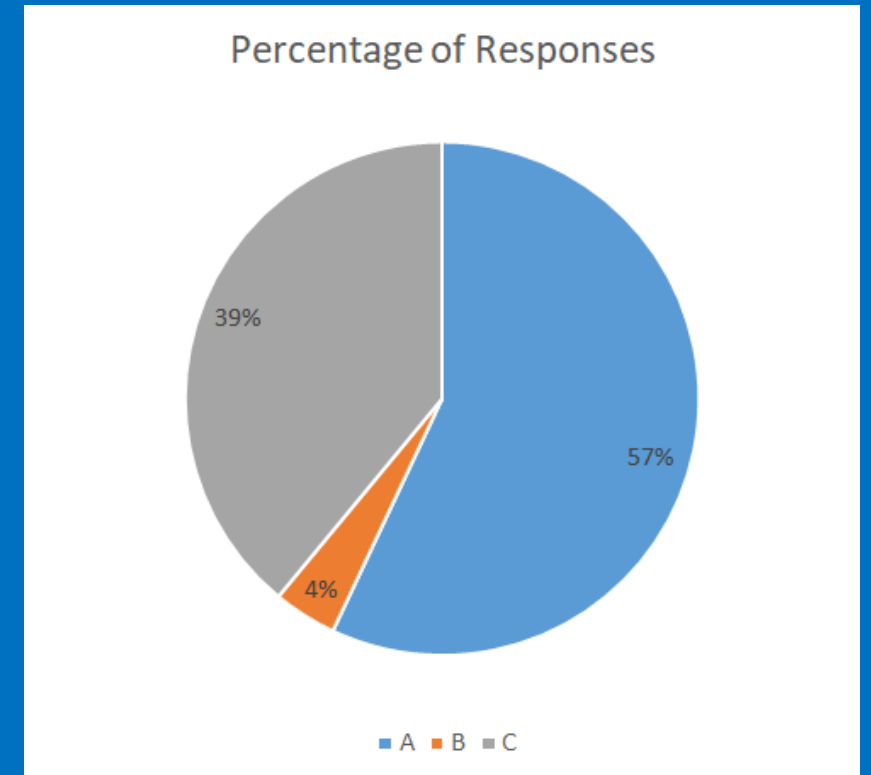
Non-burdensome

Legal clarity

Question #1

I feel this feasibility investigation is moving:

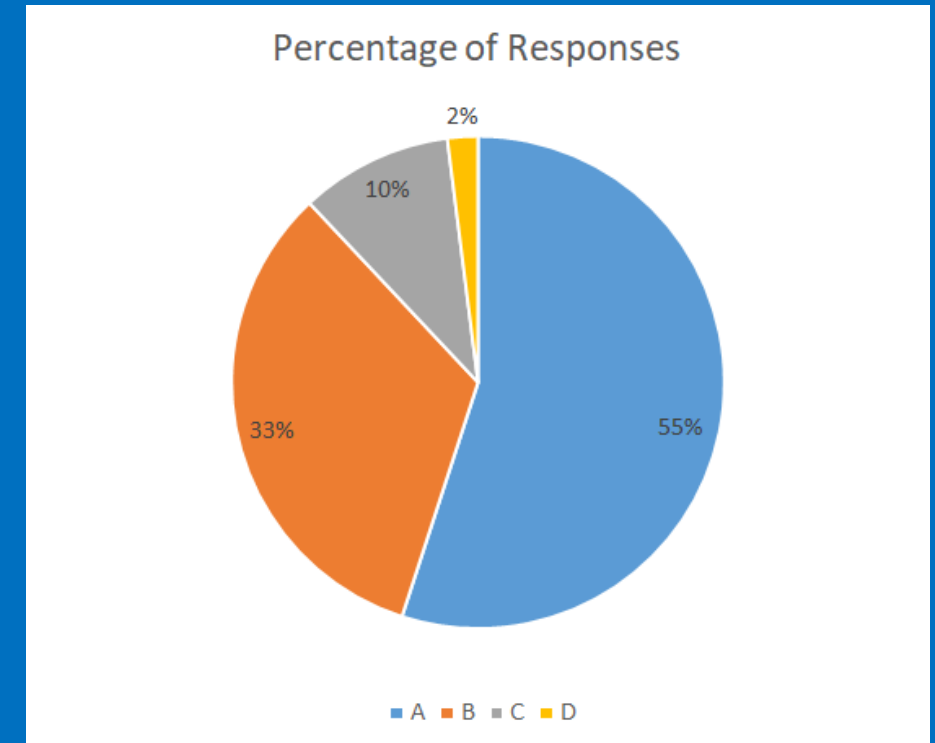
- A) Too slow
- B) Too Fast
- C) Just Right



Question #2

How did you feel about the conversation today?

- A) High Value
- B) Somewhat Valuable
- C) Marginally Valuable
- D) Not Valuable



Question #3

I would like to work with the feedback received relating to values and uncertainties of the workgroups to develop a framework for future discussion.

- A) Yes Definitely – we need it and I'd like to help refine the next steps
- B) I think so but want to hear more
- C) Not sure
- D) No. The concepts discussed today didn't resonate with me.

