Portfolio and Trade-Off Tool

Allowing roundtables to define their vision for how to best meet the state's M&I Needs

1. Define demand levels in 2050
   - Low, mid, or high demands
   - Oil Shale
   - Replacement of South Metro & Northern El Paso nontributary groundwater
   - Additional supply / demand factor to account for concerns like climate change
2. Define IPP success levels by basin and by project/type
3. Define conservation level and how much can be applied to the gap
4. Define amount of new supply and ag transfer water for both West and East Slopes
5. Define percent of water that can be reused (if desired)

Outputs: Statewide, regional, and basin specific portfolios Data table Statewide, regional, and basin specific portfolios by water source

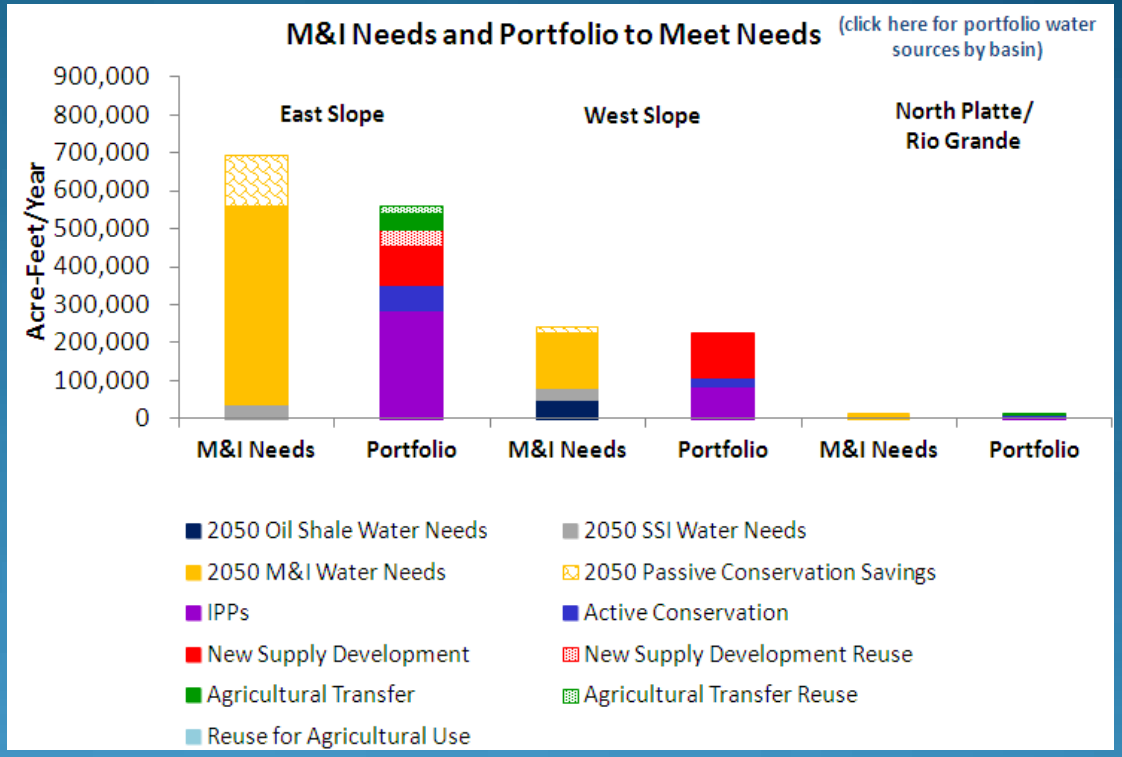
Trade-Offs: Amount of irrigated acres dried up Cost of portfolio compared to status quo Amount of irrigated ag acres needed to go into rotational fallowing program Nonconsumptive benchmarks on West Slope Accretion / depletion of SP flows (in development)

A Range of Mid Portfolio Options

	Base	IPPs	New Supply	Conservation	Ag
IPPs	Mid (IBCC alt)	High (Metro alt) / Low (SQ)	Mid (IBCC alt)	Mid (IBCC alt)	Mid (IBCC alt)
New Supply	Mid (100,000 AF)	Mid (100,000 AF)	High (250KAF) / Low (0KAF)	Mid (100,000 AF)	Mid (100,000 AF)
Conservation / Reuse	Mid (Cons. Committee Recs)	Mid (Cons. Committee Recs)	Mid (Cons. Committee Recs)	High (High Scenario @ 60% to gap) / Low (0 % active cons.)	Mid (Cons. Committee Recs)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)	Mid (20% SP dry up per urbanization & IPPS)	Mid (20% SP dry up per urbanization & IPPS)	Mid (20% SP dry up per urbanization & IPPS)	High (No new supplies) / Low (only urbanized lands)

Base Portfolio Option

	Base
IPPs	Mid (IBCC alt)
New Supply	Mid (100,000 AF)
Conservation / Reuse	Mid (Cons. Committee Recs)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)

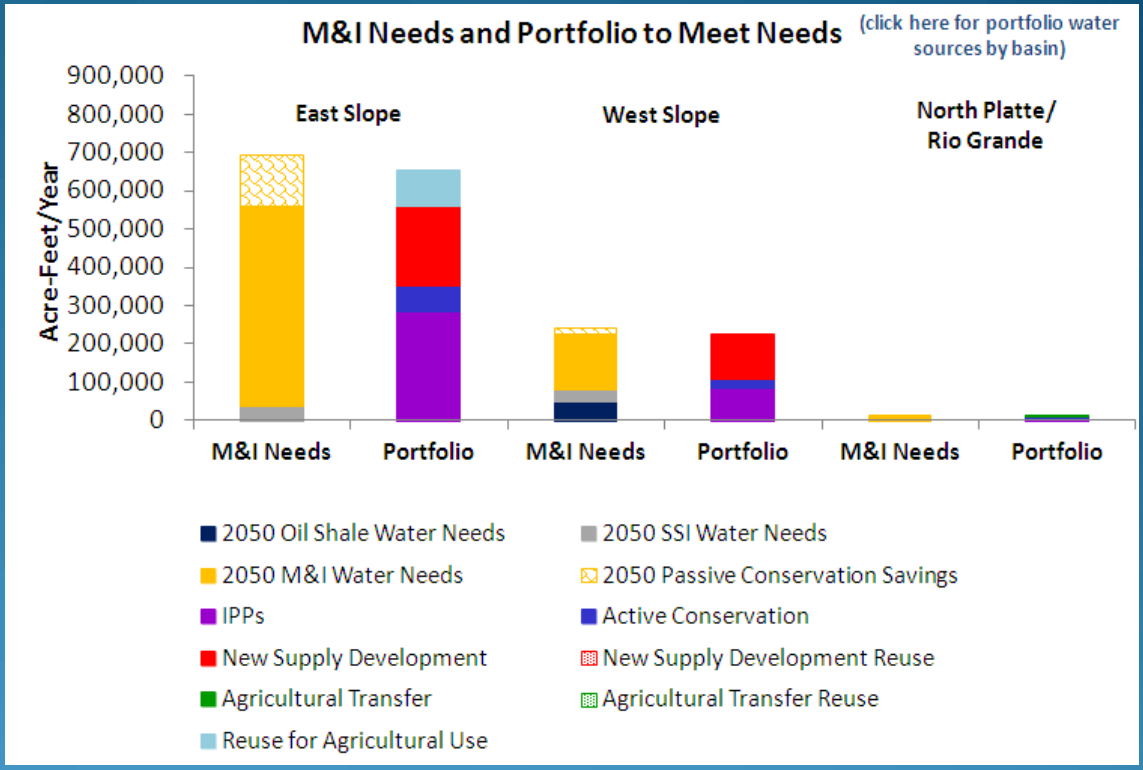


- **20%** Ag dry up (180,000 acres)
- Would trigger **FWS consultation** in GU or Y/W, but not likely the Green
- Decrease SP flows by about **4%** @ state line
- Would require **40-55%** of SP ag to be in rotational fallowing program

SIMILAR PORTFOLIOS: High IPP Success, Low IPP Success (25% ag dry-up, 200,000 Acres dried up)

High New Supply Portfolio Option

	New Supply
IPPs	Mid (IBCC alt)
New Supply	High (250KAF)
Conservation / Reuse	Mid (Cons. Committee Recs)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)

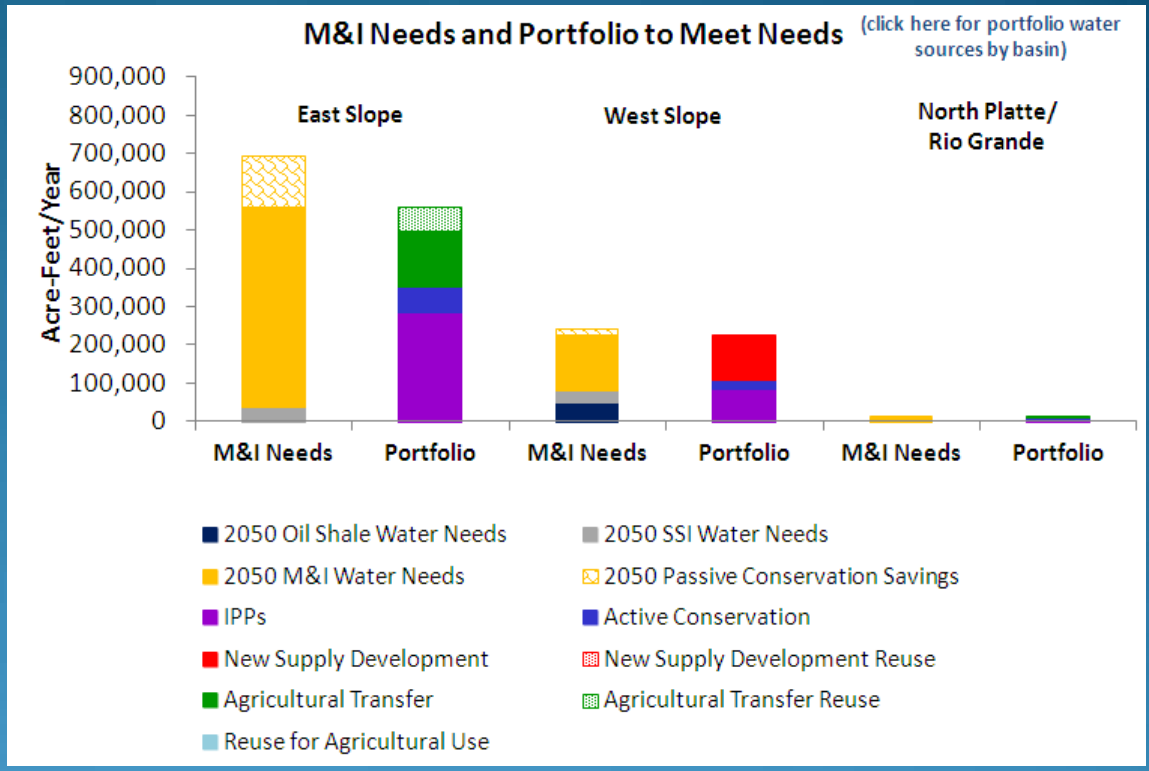


- Only 210,000 AF of transbasin water is needed to meet demands
- **20%** ag dry up (150,000 acres), but provide 90,000 AF of additional reuse water to ag (allow for 70,000 acres to stay in business)
- Would trigger **FWS consultation** in GU, Y/W, and the Green
- Increase SP flows by about 14% @ state line
- Requires **30-40%** of SP ag to be in rotational fallowing program & less if reuse goes to ag

SIMILAR PORTFOLIOS: Low ag transfer (just 7% of ag lands, with decrease in IPP success)

Low New Supply Portfolio Option

	New Supply
IPPs	Mid (IBCC alt)
New Supply	Low(0 KAF)
Conservation / Reuse	Mid (Cons. Committee Recs)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)

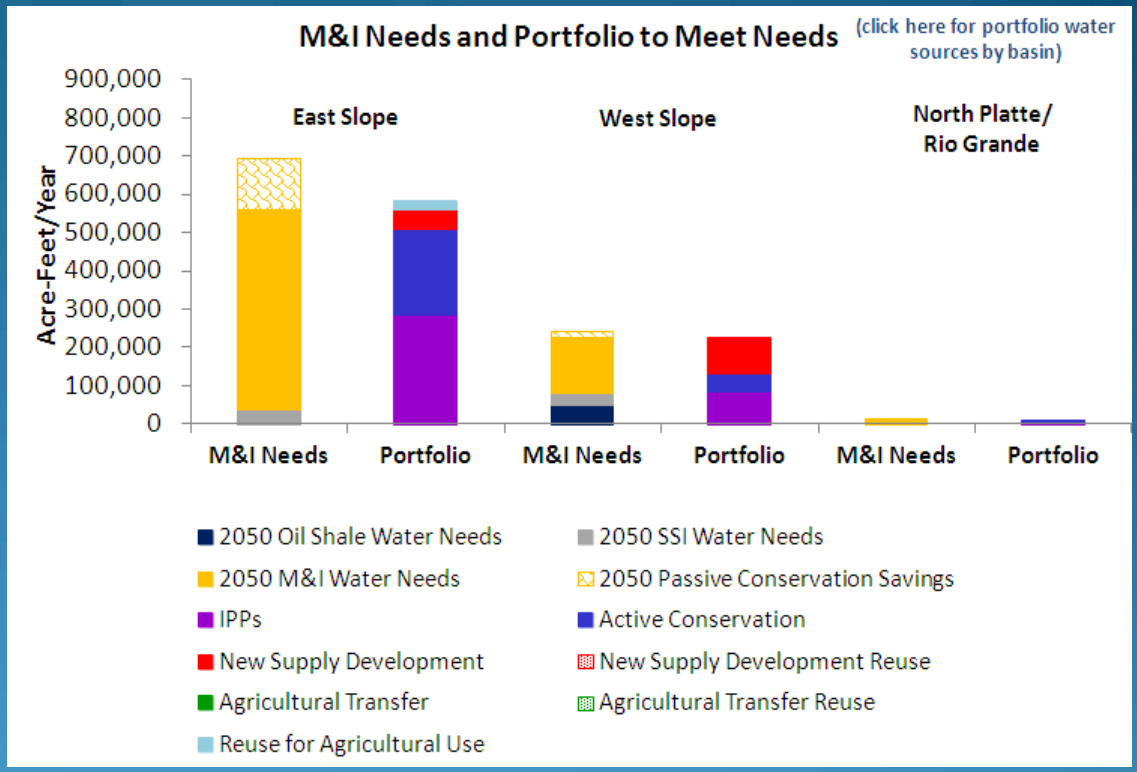


- 30% ag dry up (265,000 acres)
- Would keep WS nonconsumptive needs relatively whole
- Decrease SP flows by about 8% @ state line
- Requires 75-95% of SP ag to be in rotational fallowing program

SIMILAR PORTFOLIOS: High ag transfer

High Conservation Portfolio Option

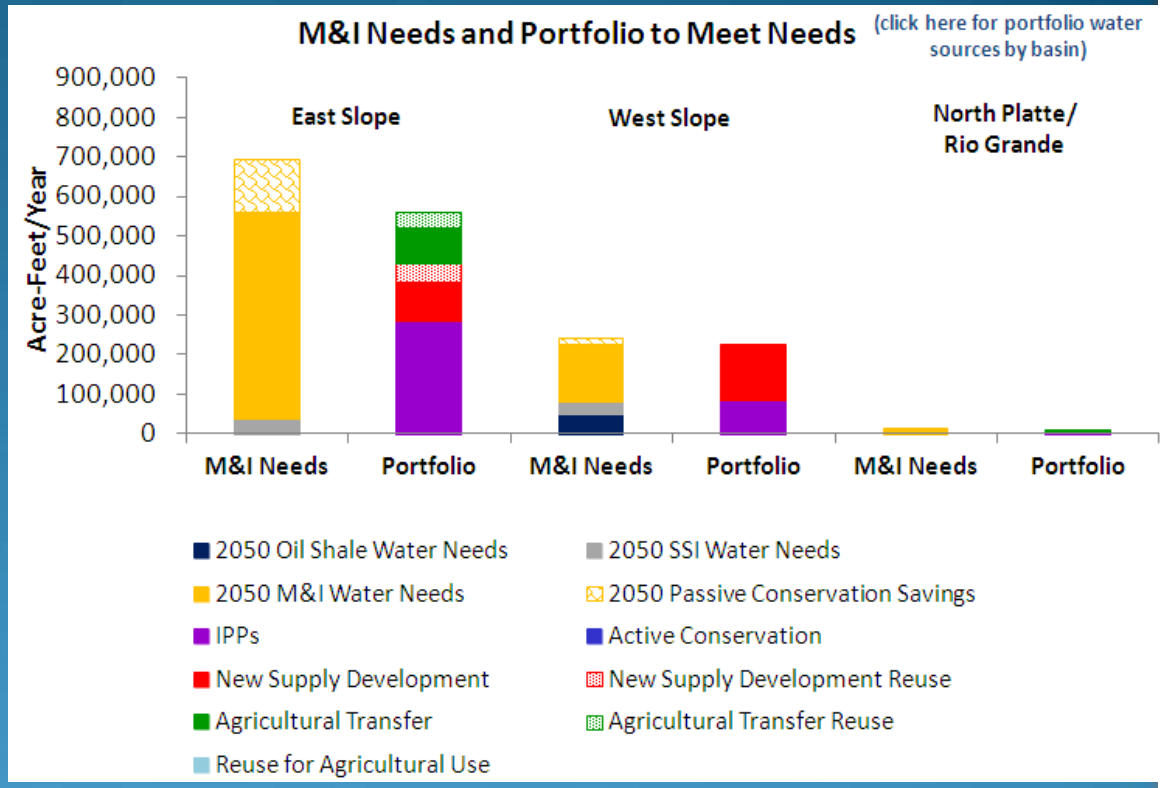
	Conservation
IPPs	Mid (IBCC alt)
New Supply	Mid (100,000 AF)
Conservation / Reuse	High (High Scenario @ 60% to gap)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)



- Only 50,000 AF of transbasin water is needed to meet demands
- **20%** ag dry up (150,000 acres), but provide 22,000 AF of additional reuse water to ag (allow for 17,000 acres to stay in business)
- Would trigger **FWS consultation** in GU or Y/W, but not likely the Green, 80% of flows maintained for Y/W and Green)
- Decrease SP flows by about 6% @ state line
- Requires **30-40%** of SP ag to be in rotational fallowing program & less if reuse goes to ag
- Low cost option

Low Conservation Portfolio Option

	Conservation
IPPs	Mid (IBCC alt)
New Supply	Mid (100,000 AF)
Conservation / Reuse	Low (0 % active cons.)
Ag Transfers	Mid (20% SP dry up per urbanization & IPPS)



- **25%** ag dry up (220,000 acres)
- Would trigger **FWS consultation** in GU or Y/W, but not likely the Green
- Decrease SP flows by about 6% @ state line
- Requires **55-75%** of SP ag to be in rotational fallowing program