



PROJECT MEETING WYANDOTTE CREEK SUBBASIN PMA DISCUSSION MARCH 4, 2021

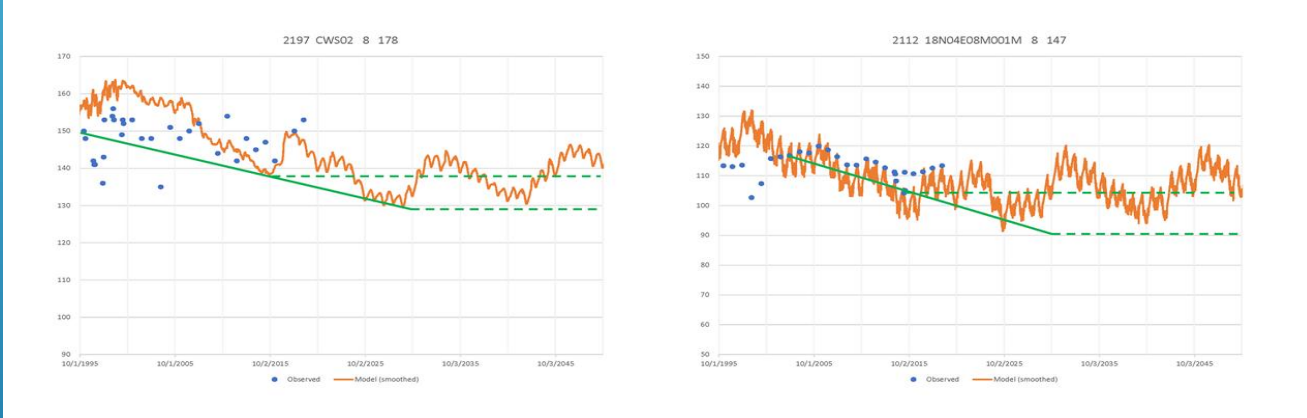
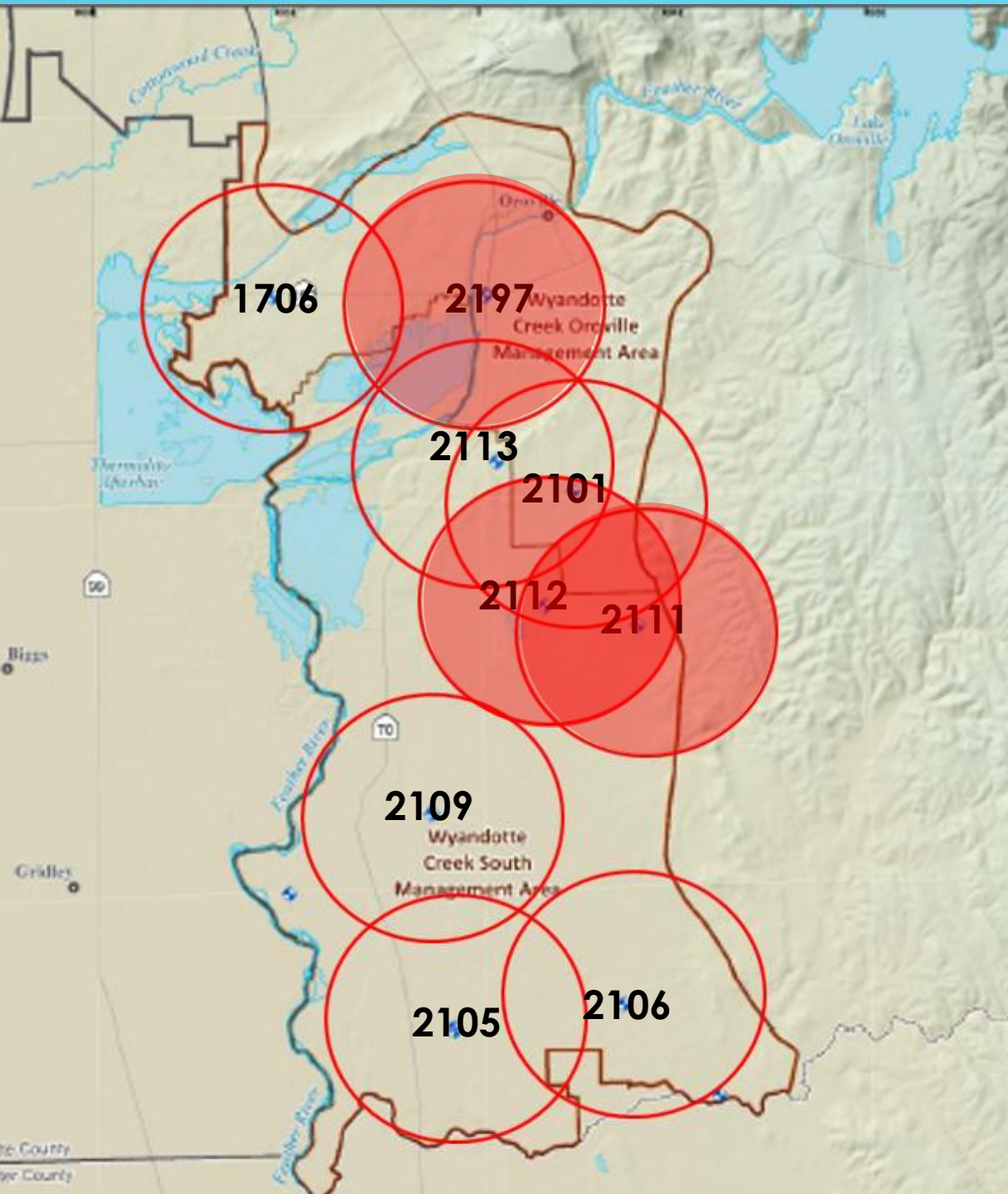


AGENDA

- ▶ INTRODUCTIONS
- ▶ REVIEW OF RMS/SMC DISCUSSION
- ▶ PMA OPPORTUNITIES
- ▶ DISCUSSION

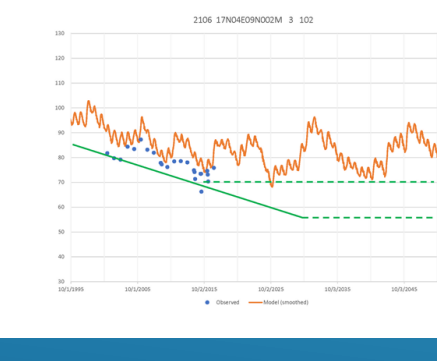
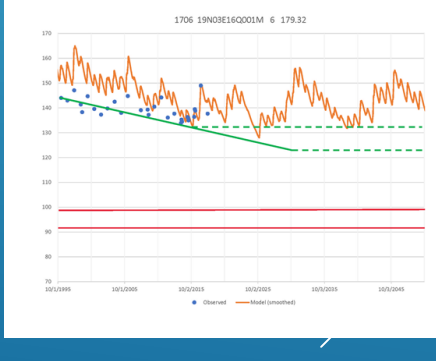
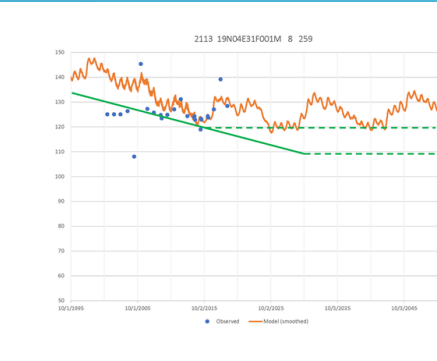
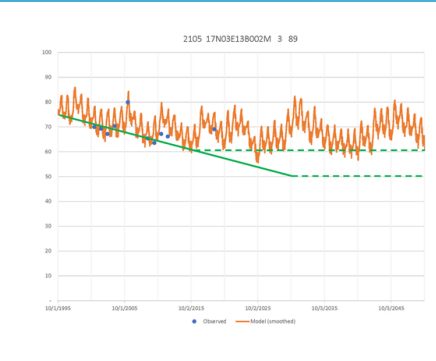
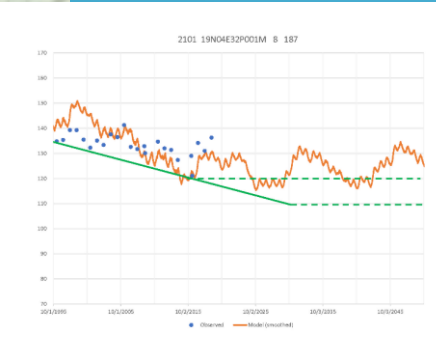
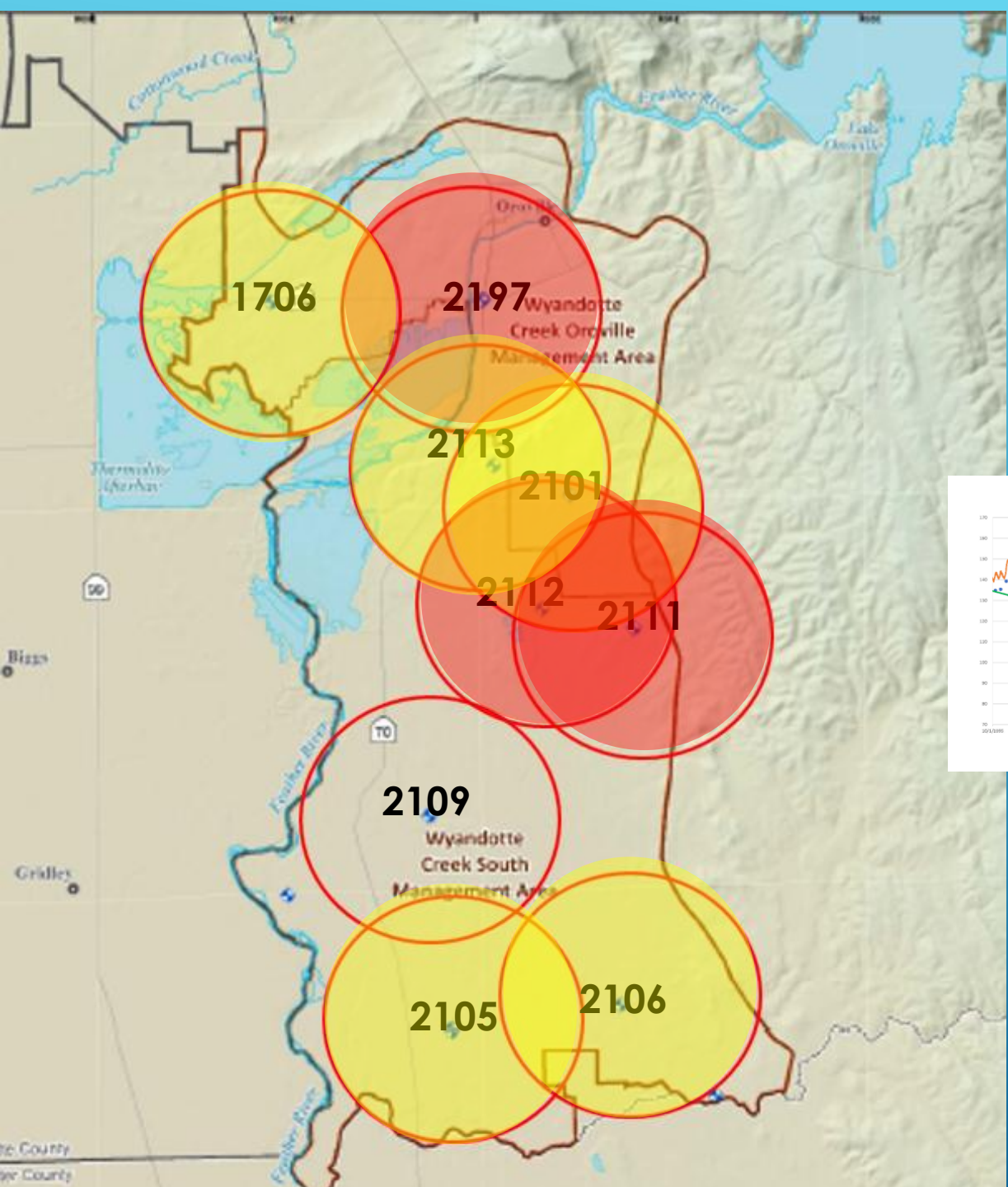
MODEL FORECASTS OF WATER-LEVELS AT RMS LOCATIONS

- ▶ Potential RMS areas where PMAs would be necessary
- ▶ Red – High priority PMA areas where forecasts fall below the 2015 MO and approach the 2030 Trend MO



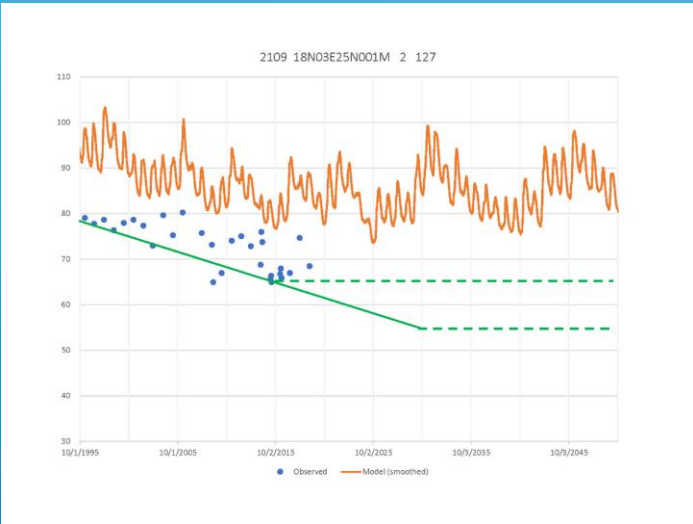
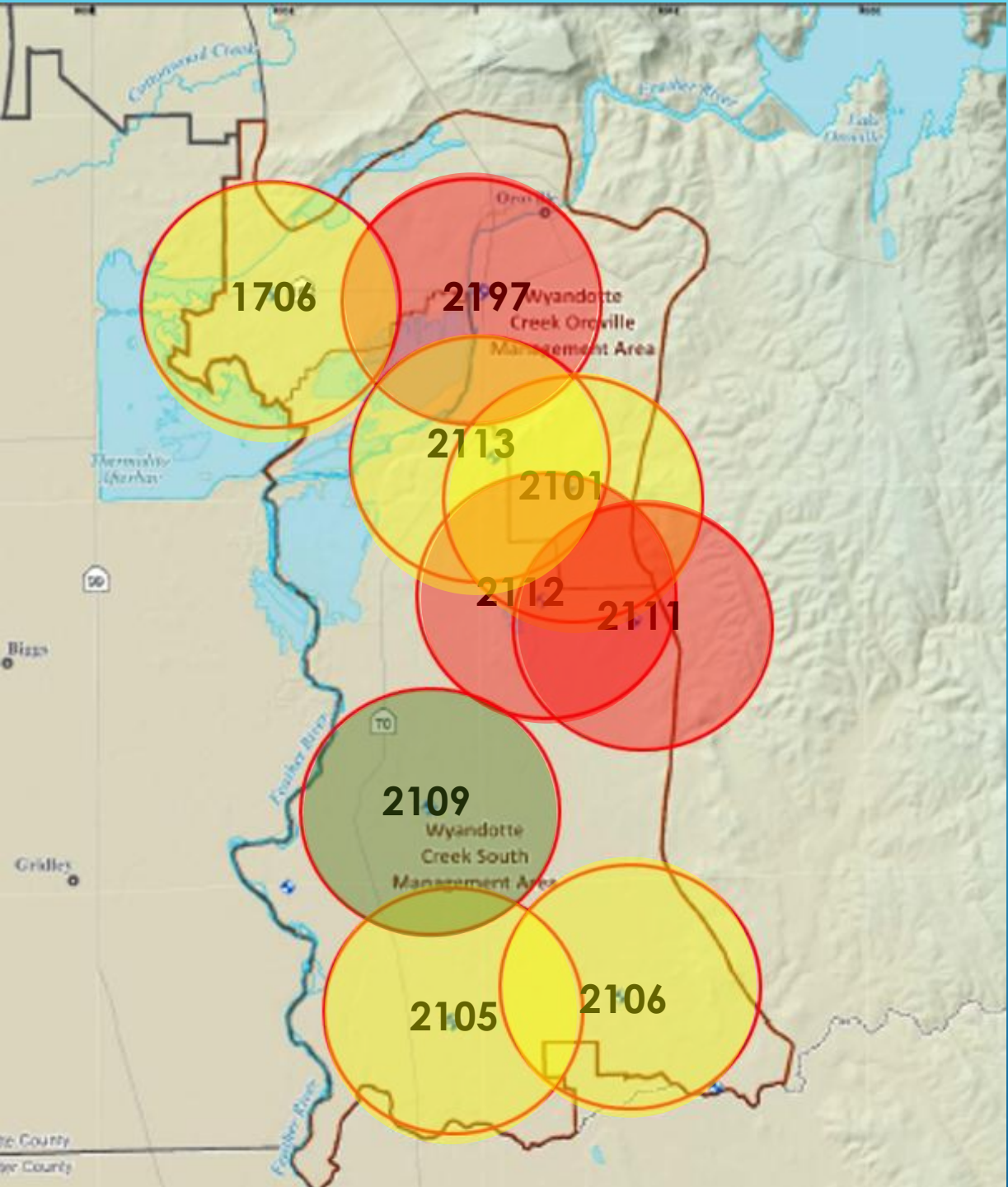
MODEL FORECASTS OF WATER-LEVELS AT RMS LOCATIONS

► Yellow – Moderate priority PMA areas where forecasts fall below the 2015 but are above 2030-Trend MO



MODEL FORECASTS OF WATER-LEVELS AT RMS LOCATIONS

- ▶ Green – Low priority PMA areas where forecasts are above the 2015 MO. Further model refinement required.



SUMMARY OF RMS WELLS, MOs, MTs, AND WELL STATISTICS

Wyandotte Creek - RMS Wells with MOs, MTs, and Well Statistics										
GSA	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte	Wyandotte
Sub-Area	Oroville	Oroville	Oroville	South	South	South	South	South	South	South
RMS Well #	20	21	24	26	27	29	30	31	32	
Hydrograph I.D.	1706	2101	2197	2105	2106	2109	2112	2111	2113	
SWID	19N03E16Q001M	19N04E32P001M	CWS03	17N03E13B002M	17N04E09N002M	18N03E25N001M	18N04E08M001M	18N04E16C001M	19N04E31F001M	
Site Code	394977N1216369W001	392714N1213309W001	CWS03	393336N1215853W001	393387N1215363W001	393818N1215915W001	394283N1215586W001	394239N1215318W001	394606N1215725W001	
Layer	6	8	8	3	3	2	8	8	8	
GSE	179.32	187	195	89.27	102.26	127.26	147.26	203.26	259.27	
X (NAD 83)	-121.637	-121.55	-121.570018	-121.585	-121.536	-121.592	-121.559	-121.532	-121.573	
y (NAD 83)	39.4977	39.454	39.509426	39.3336	39.3387	39.3818	39.4283	39.4239	39.4606	
MT-15% (Feet Above MSL)	91.49	81.23	111	43.46	38.13	45.73	65.3	80	81.72	
MT-10% (Feet Above MSL)	99.83	111	122	48.51	47.12	52.89	75.6	95	92.22	
MO-2015 Observed (Feet Above MSL)	132	120	150	60	70	65	110	110	120	
MO - Trend (Feet Above MSL)	122	110	139	50	55	55	90	88	110	
Total Number of Wells Above MO-2015 Observed	0	3	0	3	2	12	1	38	15	
Total Number of Wells Above MO-Trend	2	14	2	9	7	23	18	69	25	
Total Number of Wells in 3-Mile Radius	109	549	154	95	144	245	542	521	437	
MO WL Difference (2015 vs Trend)	10	10	11	10	15	10	20	22	10	
Specific Storage	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	
Radius (miles)	3	3	3	3	3	3	3	3	3	27
Volume difference between MO-2015 and MO-Trend (Acre-feet)	543	543	597	543	814	543	1086	1194	543	6406

PROJECTS & MANAGEMENT ACTIONS



- ▶ The following slides are intended to generate discussion with the Advisory Committee
- ▶ The PMAs and example portfolio are just examples that have been evaluated by other GSAs and may not be applicable to WCGSA.
- ▶ The PMA descriptions and example proportions not intended to be representative of the subbasin.

PROJECTS & MANAGEMENT ACTIONS



▶ Supply Enhancement

- ▶ Surface water imports
- ▶ Managed aquifer recharge (infiltration)
- ▶ Managed aquifer recharge (ASR)

▶ Demand Reduction

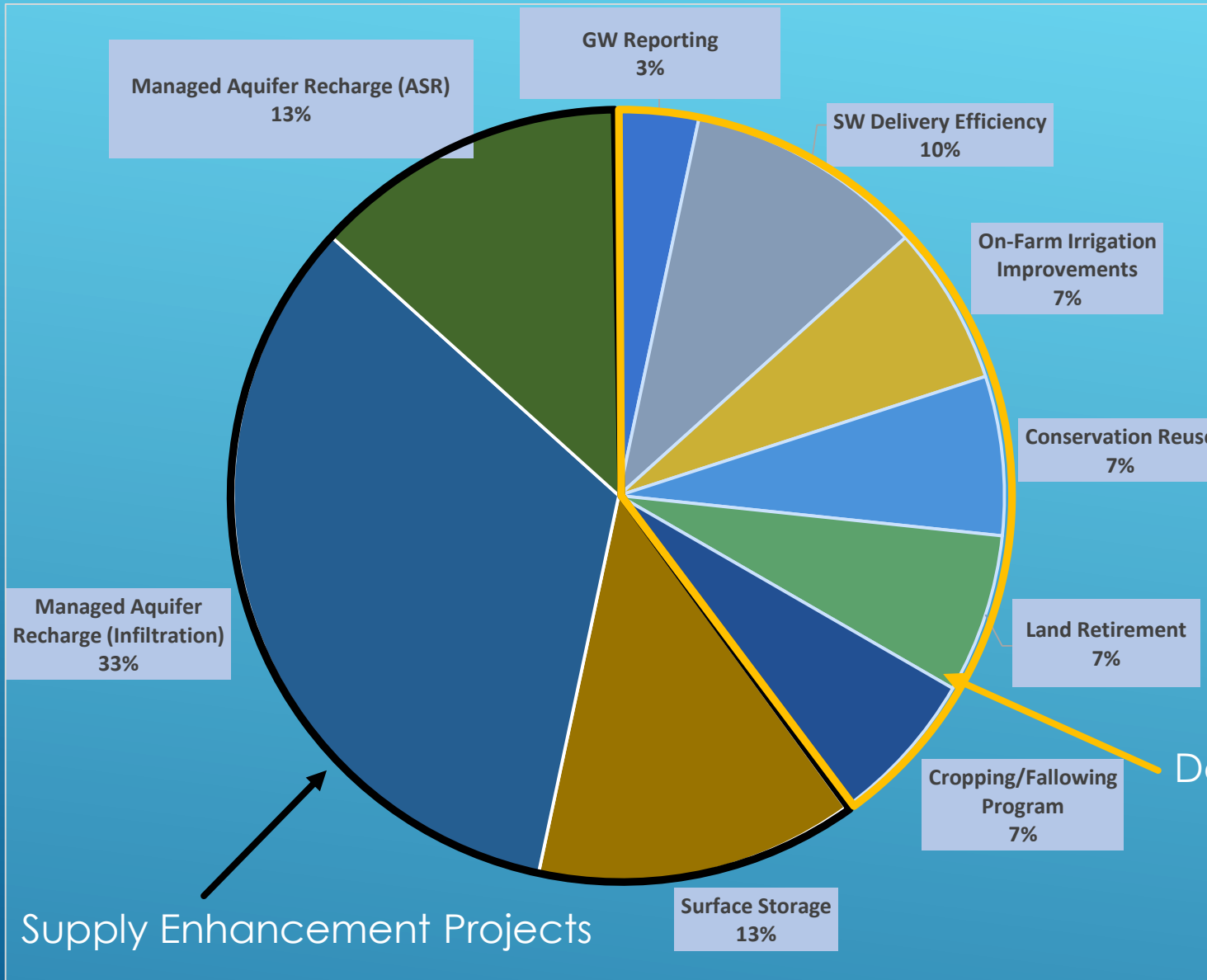
- ▶ Education/outreach
- ▶ Efficiency Improvements
- ▶ Wellhead requirements
- ▶ Conservation and reuse
- ▶ Land retirement/fallowing
- ▶ Allocation/pumping restrictions

For discussion only. Not intended to represent PMAs that will be advanced for analysis

PROJECT PORTFOLIO

Example % Portfolio Allocation

Sums to total volume target for to achieve sustainability



Demand Reduction Projects

Supply Enhancement Projects

For discussion only. Not intended to represent recommended PMAs or proportions

DISCUSSION