

Fremont Madison Irrigation District Precision Water Management

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Fremont-Madison Irrigation District



Automation/Measurement Projects

Automation

- Teton River Splitter
- Crosscut Canal
- Henry's Lake Outlet

Flow Measurement/Telemetry

- North Branch Fall River Canal
- East Branch Fall River Canal
- Teton Island Feeder Canal Split
- End of the North Fork Teton River

Why

- Time Savings/Vehicle Wear
 - 30min Round Trip Travel to Teton Splitter (Dirt Road)
 - 30min Round Trip Travel Time to Crosscut Canal (Dirt Road)
 - 2.5 to 3hrs round trip to Henry's Lake Outlet
- Water Delivery (Consistent and Timely)
- Water Conservation



Automation- Teton Splitter



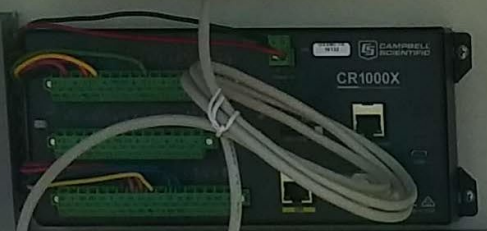
DANGER
AUTOMATIC
GATE SHAFT
WILL TURN
WITHOUT
WARNING





DANGER
AUTOMATIC
GATE SHAFT
WILL TURN
WITHOUT
WARNING

DANGER
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TETON SOUTH FORK NORTH GATE

VERTICAL GATE POSITION IN FEET

1.07

METCOM INC.

GATE UP OFF GATE DOWN OFF
MANUAL OFF AUTOMATION OFF

TETON SOUTH FORK MIDDLE GATE

VERTICAL GATE POSITION IN FEET

1.85

GATE UP OFF GATE DOWN OFF
MANUAL OFF AUTOMATION OFF

TETON NORTH FORK SOUTH GATE

VERTICAL GATE POSITION IN FEET

0.32

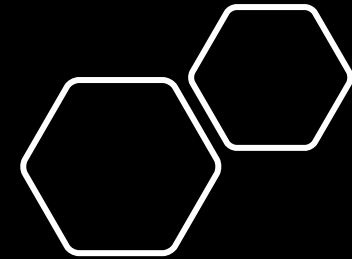
METCOM INC.

GATE UP OFF GATE DOWN OFF
MANUAL OFF AUTOMATION OFF





SF_Automation	on
MOVE_NF_GATE	false 
SetNF_Gate_Pos	0.95
Cycle_Time	900
Cycle_Cnt	9
Targ_NF_Flow	170
Live_NF_Flow	172
SF_Gate1_Pos	0.127303
SF_Gate2_Pos	0.3837209
NF_Gate_Pos	0.9482034



TETON SPLITTER AUTOMATION



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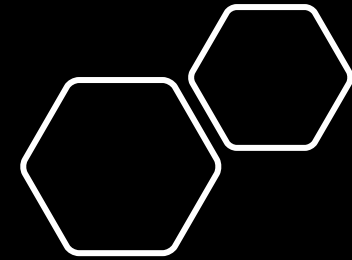


Automation Crosscut Canal

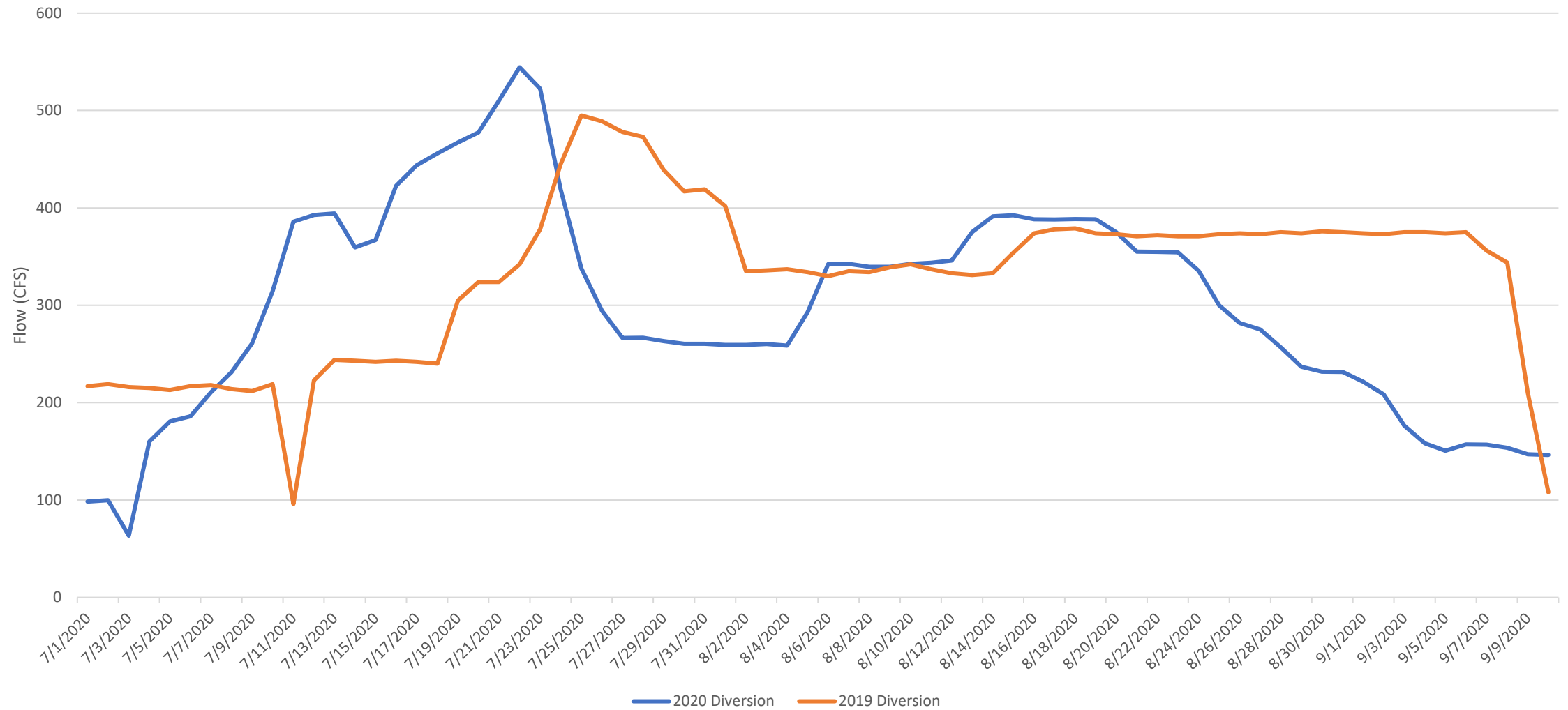
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Automation	off	
BegGate_Pos	0.2178	
CycleCnt	21	
CycleTime	900	
Gate_Alm	0	
Gate_Pos	-0.2145	
Gate_Pos_Max	0.8003	
Gate_Pos_Min	0	
Live_CFS	0	
Set_CFS	25	



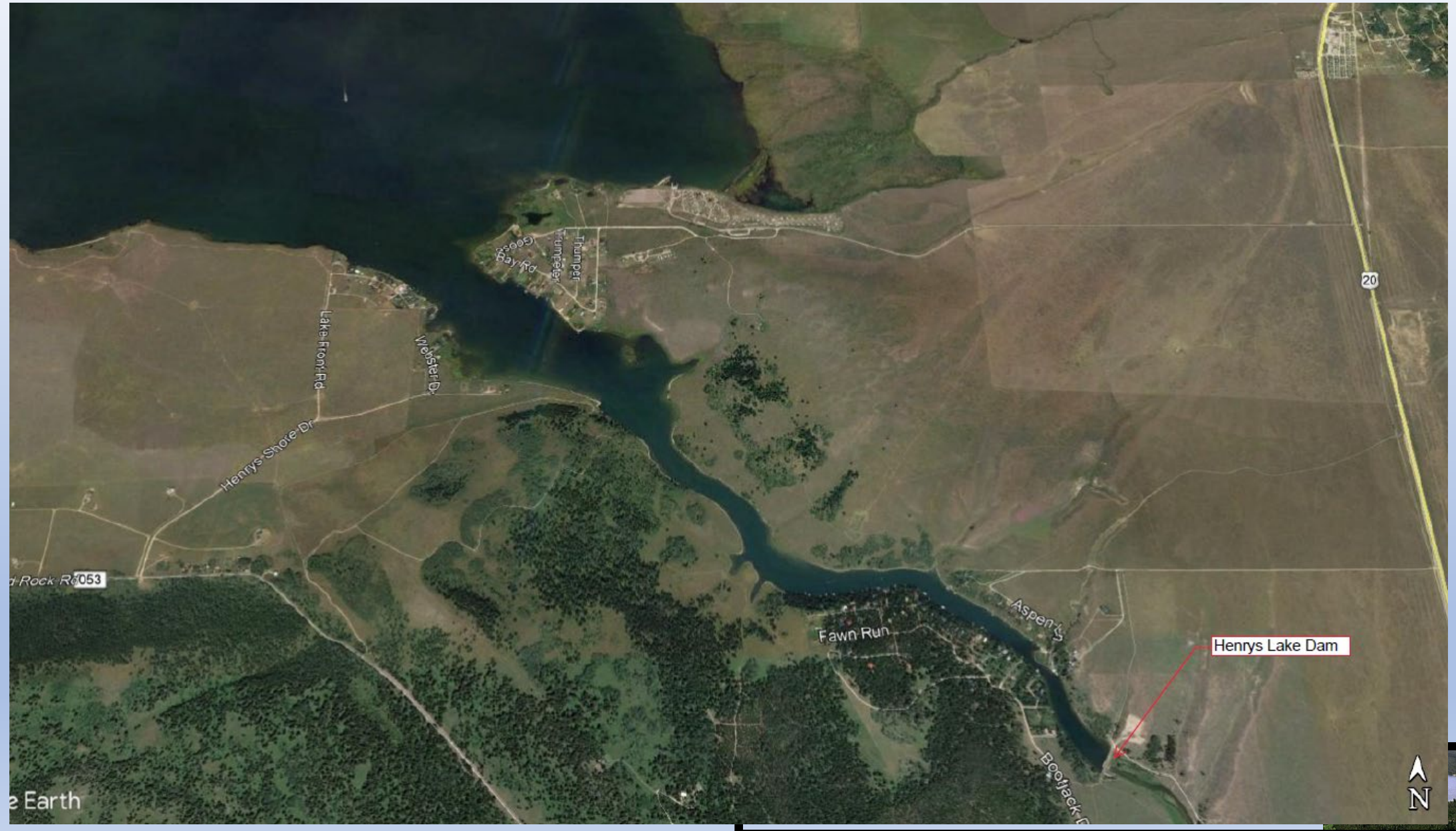
Crosscut Diversion Comparison



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Henrys Lake Outlet





Add...	RecNum	2876
Delete	TimeStamp	2036 23:04:33
Delete All	Automation	off
Options...	Cycle_Time	900
Stop	Cycle_Cnt	0
	Live_FB	14.81027
	FB_Offset	0
	Live_S_Gate_CFS	9.407545
	SET_S_Gate_CFS	9.1

North Branch Fall River Canal





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Measurement
Location on
Existing Weir

East Branch Fall
River Canal to
East Teton Canal

Madison Irrigation District



Daily Route to Weir



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Teton Island Feeder Split





End of North Fork Measurement Station





Lower Teton Reach Gains/Diversion

