

# AUTOMATION & MODERNIZATION OF THE BOISE RIVER

Mike Meyers  
Watermaster Water  
District 63



AUTOMATION 101 HOW DOES IT WORK

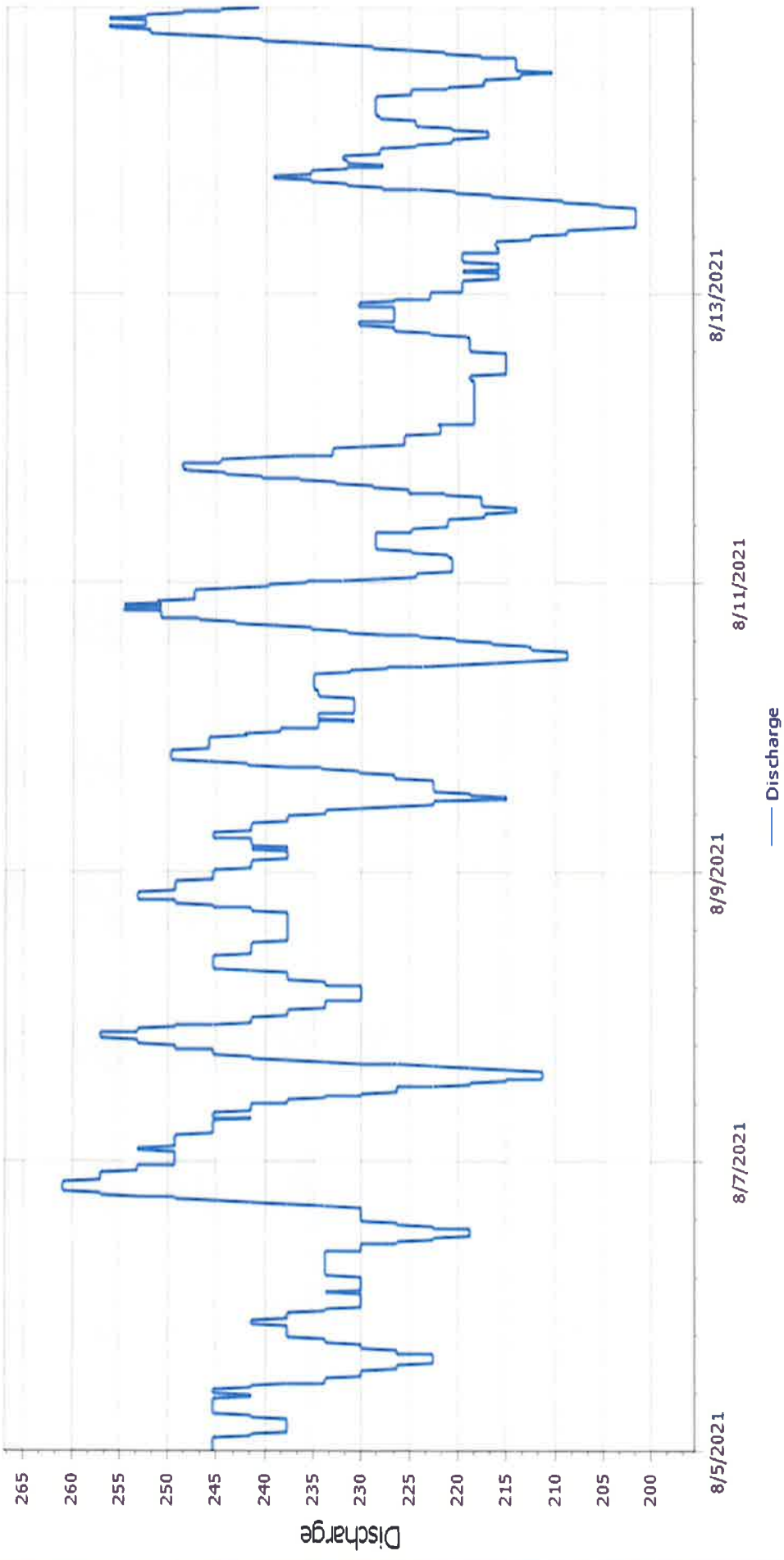
- Install Equipment (motors, telemetry, solar panels, etc.)
- We manage headgates remotely
- We have real time data which lead to faster decisions



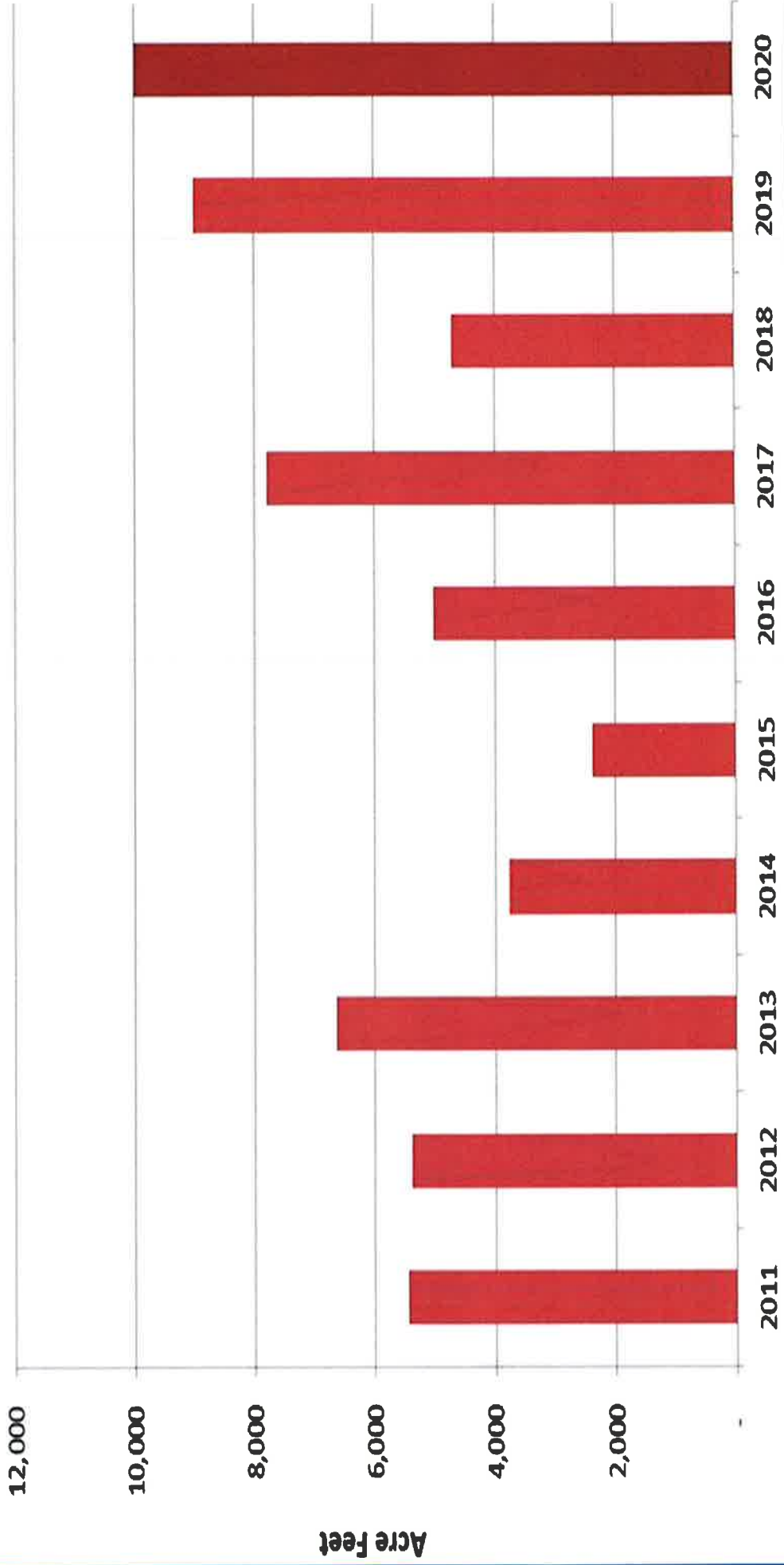


HOW DOES AUTOMATION SAVE WATER?

# 13210050\_Boise River near Middleton -



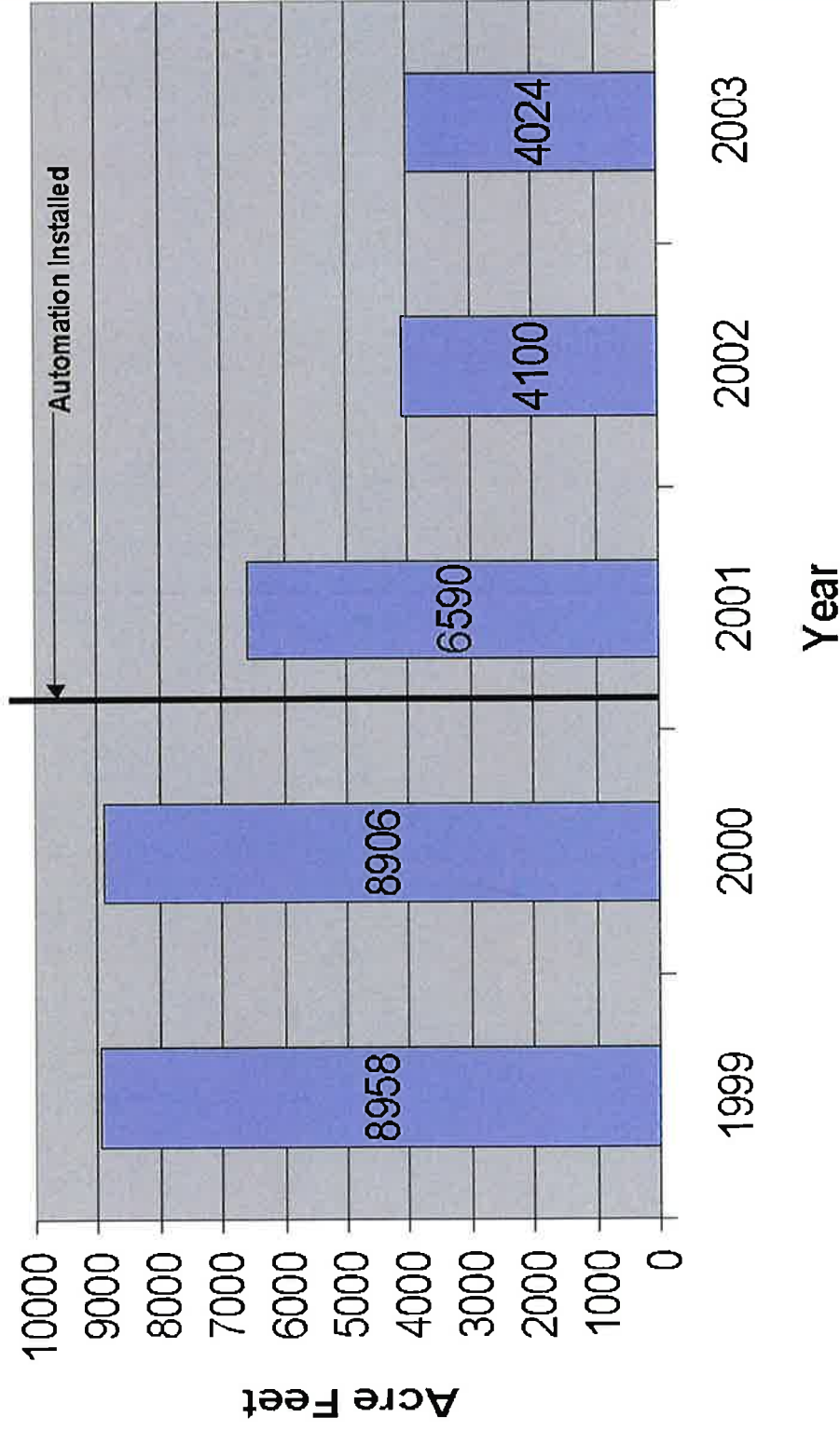
# Operational Loss



# HOW DO WE KNOW AUTOMATION WORKS



## Ochoco ID Return Flows





# WHAT IS THIS PROJECT GOING TO COST





# PARTNERSHIP WITH PAIGE WIRELESS

2:23 5G 76% Indian creek.Public 11/4/21 2:23:24 PM

Current Status Historic Collect Fill

Timestamp 11/4/21 2:23:24 PM

UpWater_Temp	59.5328
UpCanal_Shift	-0.46
CanalSpill_CFS	250.725
CanalSpillEast_CFS	125.014
CanalSpillWest_CFS	125.711
CanalSpillEast_CFS_C	3.33
CanalSpillEast_CFS_L	14.979
CanalSpillEast_CFS_H	1.84511
CanalSpillEast_Gte_Hgt_Shift	1.35
CanalSpillWest_CFS_C	3.33
CanalSpillWest_CFS_L	15.0625
CanalSpillWest_CFS_H	1.84511
CanalSpillWest_Gte_Hgt_Shift	1.35
HHMM	1423
SendTestAlarm	false
TestAlarmDay	2
TotalAlarm	000

2:22 5G 76% Indian creek.Public 11/4/21 2:23:00 PM

Current Status Historic Collect Fill


Timestamp 11/4/21 2:23:00 PM

Record Number	8565894
Bat_Volt	13.5177
Panel_Temp	71.8528
Canal_Hgt	0.71501
EastGate_Hgt	0
EastGate_Hgt_Temp	0
WestGate_Hgt	0
WestGate_Hgt_Temp	192
Canal_CFS	15.5936
AUTO_GATE	0
GATE_SET	3.69
AUTO_Level	0
Level_SET	3.46
CHECK_DELAY	60
CHECK_COUNT	1
SETTLEDELAY	600
TotalAlarm	000

Current  
**0 CFS**


Total (YTD)  
**3,948,220,800 CF**

Flow

CLOSED 

Since  
10/02/21  
06:13:47

Gate State


0.0' 

Level1 (1.0)

Current  
**0 CFS**


Total (YTD)  
**2,618,956,800 CF**

Flow

OPEN 

Since  
10/20/21  
00:33:10

Gate State

0.0' 

Level1 (1.0)

**WHY SHOULD WE AUTOMATE THE RIVER?  
A CONVERSATION WITH A FARMER**



