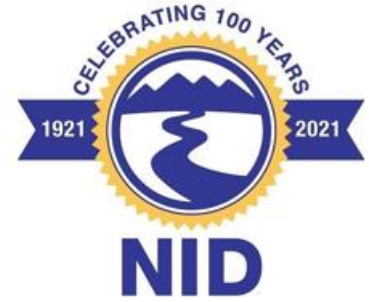


Hydroelectric Department Monthly Update



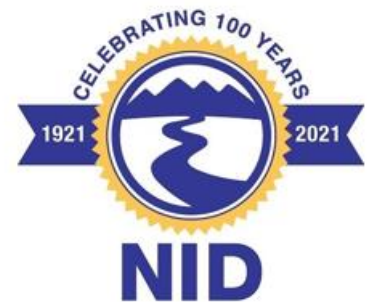
Water & Hydroelectric Operations Committee

February 9, 2021

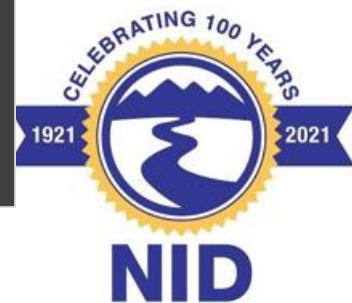
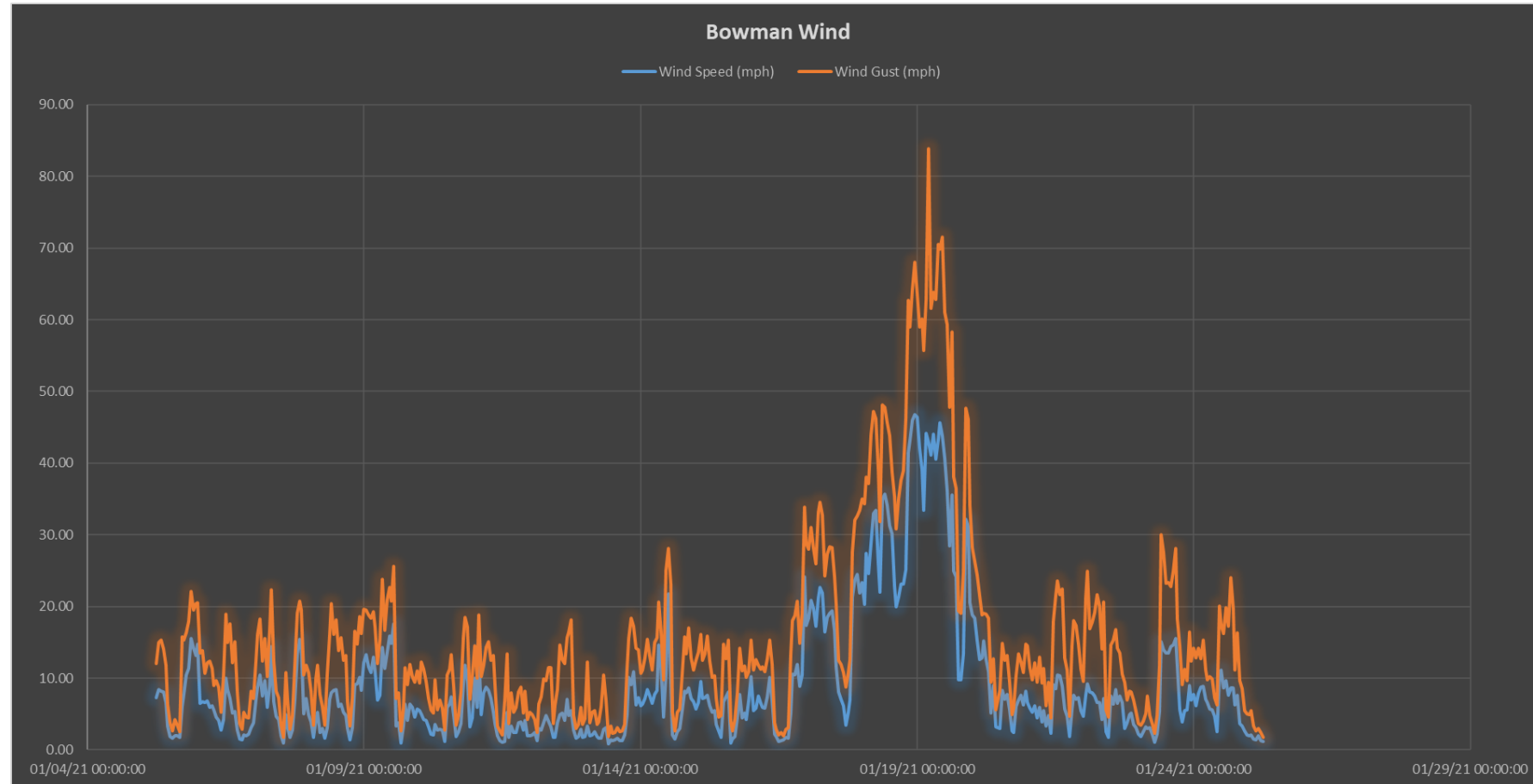
Outage Report

Location	Date and Time Out	Duration (HH:MM)	Cause
Bowman	1/19/2021 00:01	109:49	60 kV line damage
	1/28/2021 06:23	29:24	60 kV line relay
Dutch Flat	1/05/2021 07:41	0:32	Planned line switching
	1/29/2021 18:13	0:03	Line relay
Rollins	1/28/2021 04:20	2:46	Line relay
	1/28/2021 10:09	0:11	Line relay
Combie South	1/27/2021 01:40	10:09	Line relay

Note: Data is preliminary and subject to verification

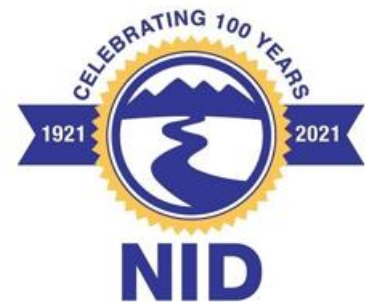


Bowman Wind Event

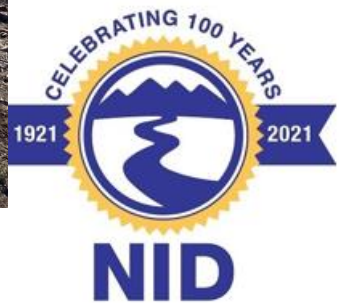


Bowman Wind Event

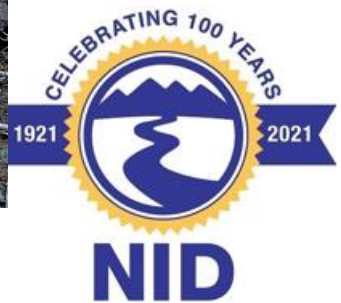
Location	Damage Assessment
Pole 51	Broken insulator.
Poles 86, 87, 88, and 89	Multiple broken insulators, broken wire, wire on the ground.
Pole 97, 98	Pole 98 destroyed. Insulator damage. Pole 97 leaning.
Poles 100, 101, 102	Leaning/loose.
Pole 127	Pole destroyed. Insulator damage.



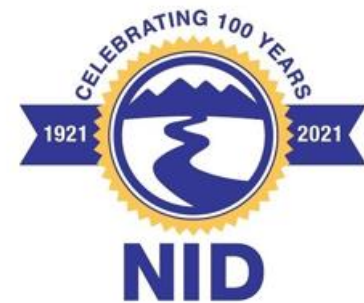
Pole 86, 87, 88, and 89



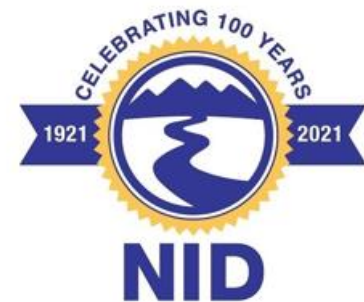
Pole 97



Pole 127



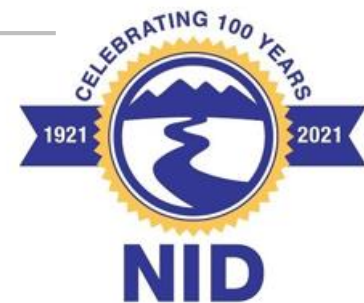
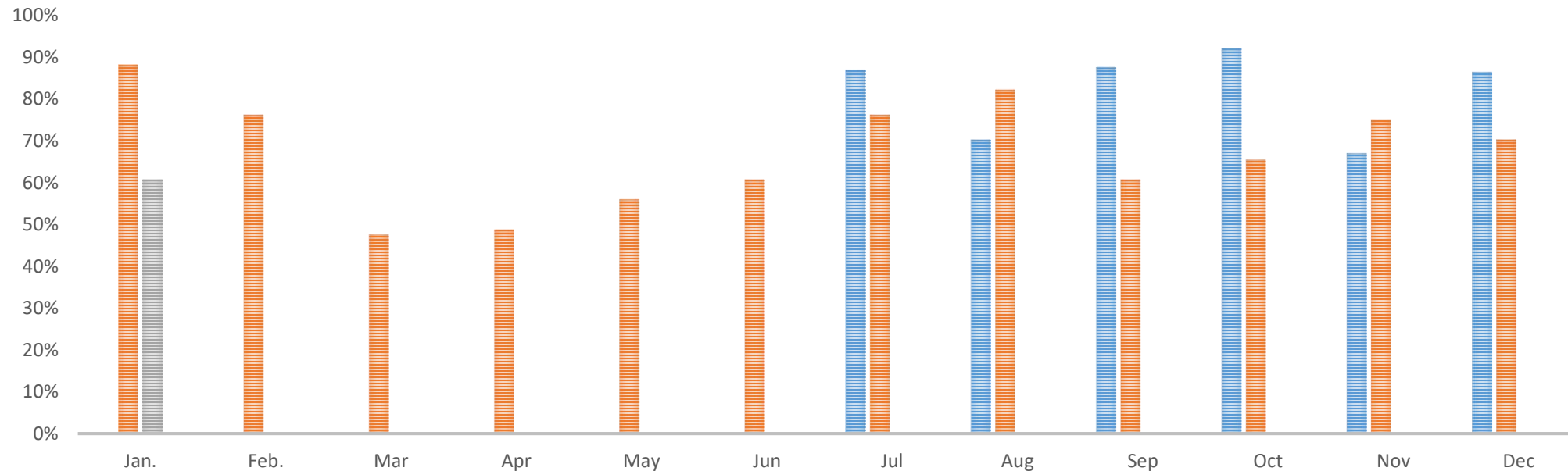
January 28, 2021



Operations: Key Performance Indicators

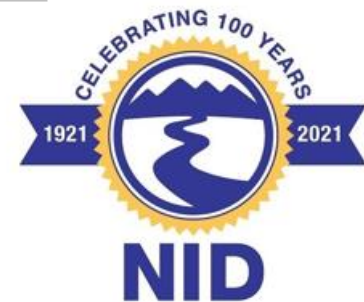
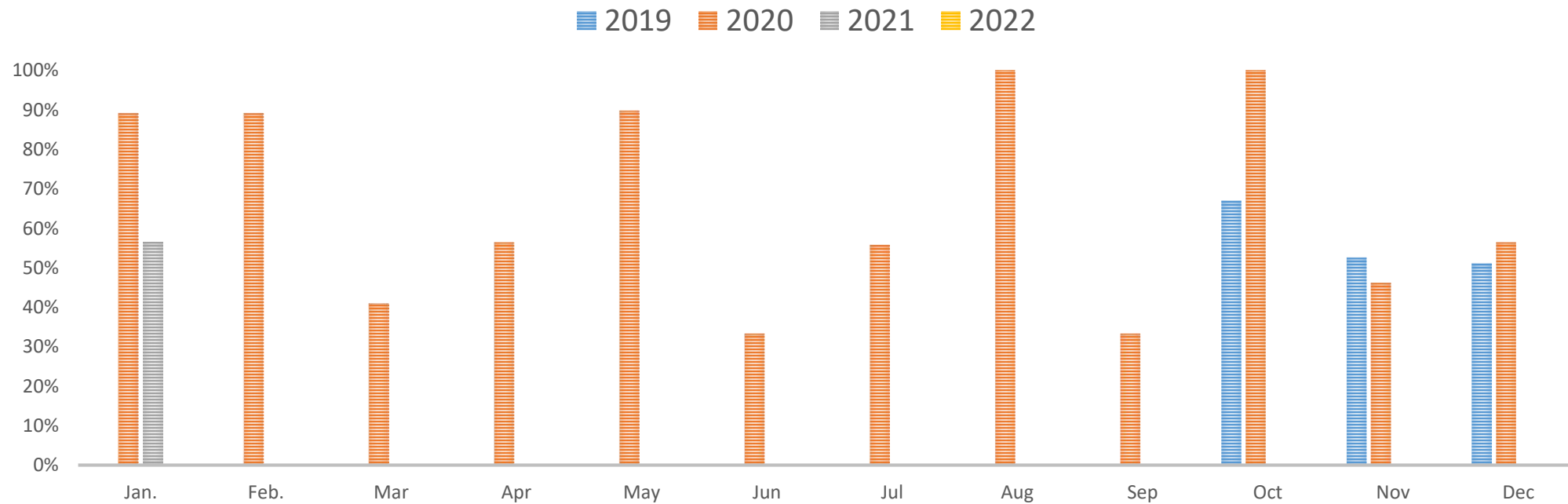
WEEKLY DAM INSPECTIONS

■ 2019 ■ 2020 ■ 2021 ■ 2022



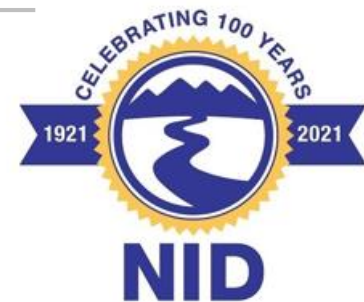
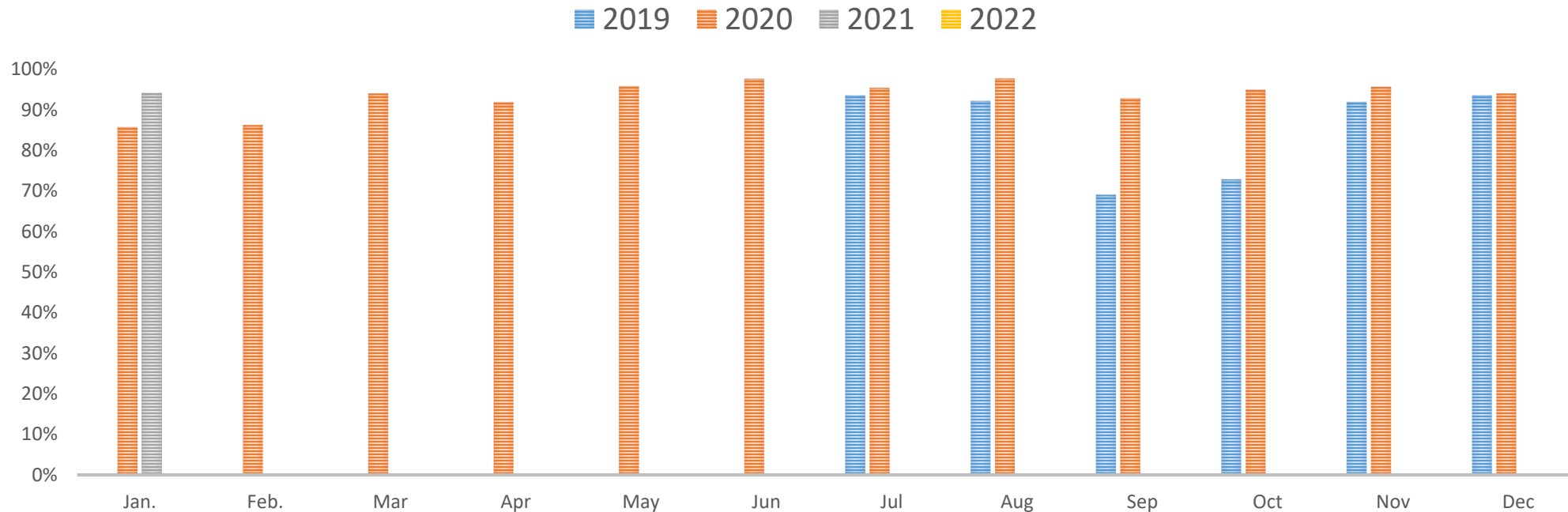
Operations: Key Performance Indicators

LINEAR FACILITY INSPECTIONS



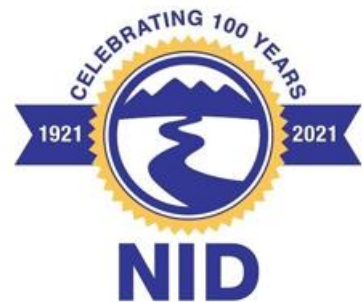
Operations: Key Performance Indicators

DAILY POWERHOUSE INSPECTIONS



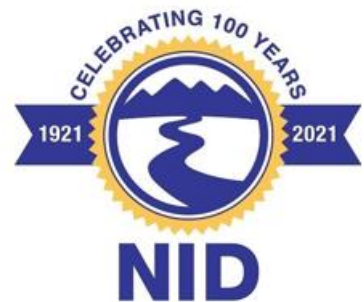
Hydro Maintenance: Key Activities

- Storm damage repair and plowing
- Restocking of emergency inventory
- Combie North capacitor bank
- Dutch Flat #2 Balance of Plant Controller commissioning
- Insurance requirements: Rollins DC Lube Oil pump, oil testing, bushing testing, fire detection
- Commissioned standby generator at Scotts Flat Powerhouse



Hydro Administration/Dam Safety/Compliance: Key Activities

- CAISO Meter Replacement Coordination
- Annual Dam Safety Training
- Planning for Rollins Powerhouse testing required by CAISO
- RFP for Part 12D Review
- NERC Evidence Reporting – Relay settings, trip reports



SnowFox

- Snow Water Equivalent (SWE) measurement using cosmic ray neutrons
- Near Jackson Meadows
- Preliminary data that requires calibration



Questions?

