

Table F-1. Phosphorus Data Inventory (PRWC 2022)

Monitoring Location	Site Type	Interpretation
4996780 Provo River at Murdock Diversion	River/stream	Highest phosphorus concentrations are observed in the summer months/growing season, although total phosphorus loads are higher in spring and fall months. Flow and concentration both appear to be drivers of phosphorus loading with the highest loads in May (when flow is highest) and in July through September (when concentrations are highest).
4996810 Provo River at Olmstead Diversion	River/stream	Highest phosphorus (concentration and load) observed in the summer months/growing season from May through September. Loading appears to be driven by high flows in May and June and elevated phosphorus concentrations in July through September after runoff flows have subsided.
4996830 Lower South Fork Provo at Gaging Station	River/stream	No clear trend in concentrations of phosphorus, although highest concentrations (and loads) may be correlated with highest flows in spring and fall months.
4996850 North Fork Provo River above Confluence with Provo River at Wildwood	River/stream	Highest total phosphorus concentrations and dissolved phosphorus loads during spring runoff; phosphorus appears to be mobilized during spring runoff as concentrations increase to match flows.
4996870 Little Deer Creek above Confluence with Provo River	River/stream	Highest total phosphorus concentrations and loads during spring runoff.
4997250 Spring Creek above Confluence with Provo River	River/stream	Elevated concentrations and loads throughout the year with an increase in mid- to late summer, particularly in the dissolved portion.
4997300 Provo River at Midway Cutoff Road	River/stream	Most samples below target TMDL concentrations. No clear trend in concentrations; highest loads throughout the growing season due to elevated flows.
4997330 Provo River below Jordanelle Reservoir on Old US 40	River/stream	Most samples below TMDL target concentrations. Highest loading generally in spring and summer months, corresponding with elevated spring flows (with the exception of high loads in December).
4997670 McHenry Creek below Mayflower Cunningham Canal	River/stream	Elevated concentrations in spring, summer, and fall, potentially driven by flows but not tightly correlated.
4997675 Big Dutch Pete Stream below Mayflower in Jordanelle State Park	River/stream	Concentrations mostly below TMDL target, flows do not follow typical seasonal trends.
4998130 Provo River above Jordanelle Reservoir at Rock Cliff Trail Bridge	River/stream	Loading closely correlated with runoff, with highest runoff through the spring runoff period. Concentrations highest through the growing season.
4998140 Weber-Provo Canal Diversion at US 189	Canal transport	Highest total phosphorus concentrations in spring, summer, and fall spanning low to high flows with highest concentrations in September. Highest phosphorus loading during spring months.
4998400 Provo River above Woodland at USGS Gage 10154200	River/stream	Concentrations generally below TMDL targets and no seasonal trend. Highest loading in spring months, closely correlated with flows and spring runoff.
5910020 Lower Charleston Canal above Confluence with Daniels Creek	Canal transport	Concentrations (dissolved and total) well above TMDL targets consistently throughout the year. Loading is highest in May when flow is highest.
5913520 Daniels Creek above Deer Creek Reservoir	River/stream	Concentrations are regularly above TMDL targets (for dissolved and total) throughout the year. Loading is highest in May and June when flows are highest.
5910160 Snake Creek above Confluence with Provo River	River/stream	Total phosphorus and dissolved total phosphorus concentrations generally elevated in all months, with total phosphorus concentrations commonly above TMDL target values. No clear temporal trend in phosphorus loading with the magnitude of loading fairly consistent throughout the year.

Monitoring Location	Site Type	Interpretation
5910250 Provo River at Heber Midway Road below Berkenshaw Pond	River/stream	No clear temporal trend in phosphorus concentrations. Phosphorus loading highest in spring and summer (through September) due to elevated flows during this time. In 2021, this location had the highest annual load of total phosphorus across all PRWC monitoring locations. Annual loads have increased at this location over the past 3 years.
5910273 London Ditch at 1200 North Heber	Canal drainage	Concentrations all well above TMDL targets; no clear temporal trend in phosphorus loading.
5910302 London Ditch at US 40	Canal drainage	Total phosphorus and dissolved total phosphorus concentrations above TMDL targets in most samples spanning all seasons of the year. Highest concentrations in fall and winter months.
5911120 Northwestward Flow to Provo River from Marsh	River/stream	Many samples above TMDL target concentrations throughout the year. Loading highest in spring when flows are elevated.
5913210 Provo River below Deer Creek Reservoir	River/stream	Elevated concentrations (above TMDL targets) in summer and early fall months (July through September). Loading is correlated with flow and increases in April, stays high through September, and is reduced in October.
5913220 Deer Creek Reservoir above Dam 01	Lake	Total phosphorus concentrations commonly above TMDL target concentrations in the bottom of the lake. Concentrations near the bottom of the lake are highest between June and October likely due to settling of phosphorus-rich particles and internal loading from benthic sediments, but may be elevated in January through March.
5913230 Deer Creek Reservoir Midlake 02	Lake	Total phosphorus concentrated in bottom samples during the summer (June through September), likely due to stratification and potential phosphorus release from anoxic sediments. Concentrations may be in decline since 2010.
5913240 Deer Creek Reservoir Upper End 03	Lake	No clear trend in seasonal or vertical variation in concentration. Potential overall decline since 2010.
5913450 Deer Creek Reservoir Midlake Up Wallsburg Bay Off Creek Inlet 08	Lake	Insufficient data.
5913460 Main Creek above Deer Creek Reservoir at US 189	River/stream	High concentrations observed year-round (total phosphorus above TMDL targets year-round) without a clear seasonal trend. Highest loading in April and May due to elevated flows during those months.
5913630 Provo River above Confluence with Snake Creek at McKeller Bridge	River/stream	Elevated concentrations observed throughout the year but highest in spring. Phosphorus loading is greatest in spring and summer months when flows are highest.
5914010 Jordanelle Reservoir above Dam 01	Lake	Phosphorus concentrations generally below TMDL target concentrations with no clear seasonal trend or consistent differences due to vertical stratification.
5914030 Jordanelle Reservoir North Arm 03	Lake	No clear trends in spatial or temporal distributions of phosphorus concentrations. Highest concentrations (occasionally above TMDL target values) in surface waters during late summer and early fall.
5914040 Jordanelle Reservoir Provo Arm 04	Lake	No clear temporal or spatial (vertical) trend in phosphorus concentrations.
4936420 Strawberry Reservoir Bryants Fork T2	Lake	Elevated phosphorus concentrations (above TMDL target concentrations) at the bottom of the reservoir, indicating stratification and potential internal cycling. Concentrations are highest in summer months but are occasionally elevated throughout the year.
Wasatch Canal at UT-32	Canal	Insufficient data.
Timpanogos Canal at UT-32	Canal	Insufficient data.
Timpanogos Canal at 2400 S Heber	Canal	Insufficient data.