



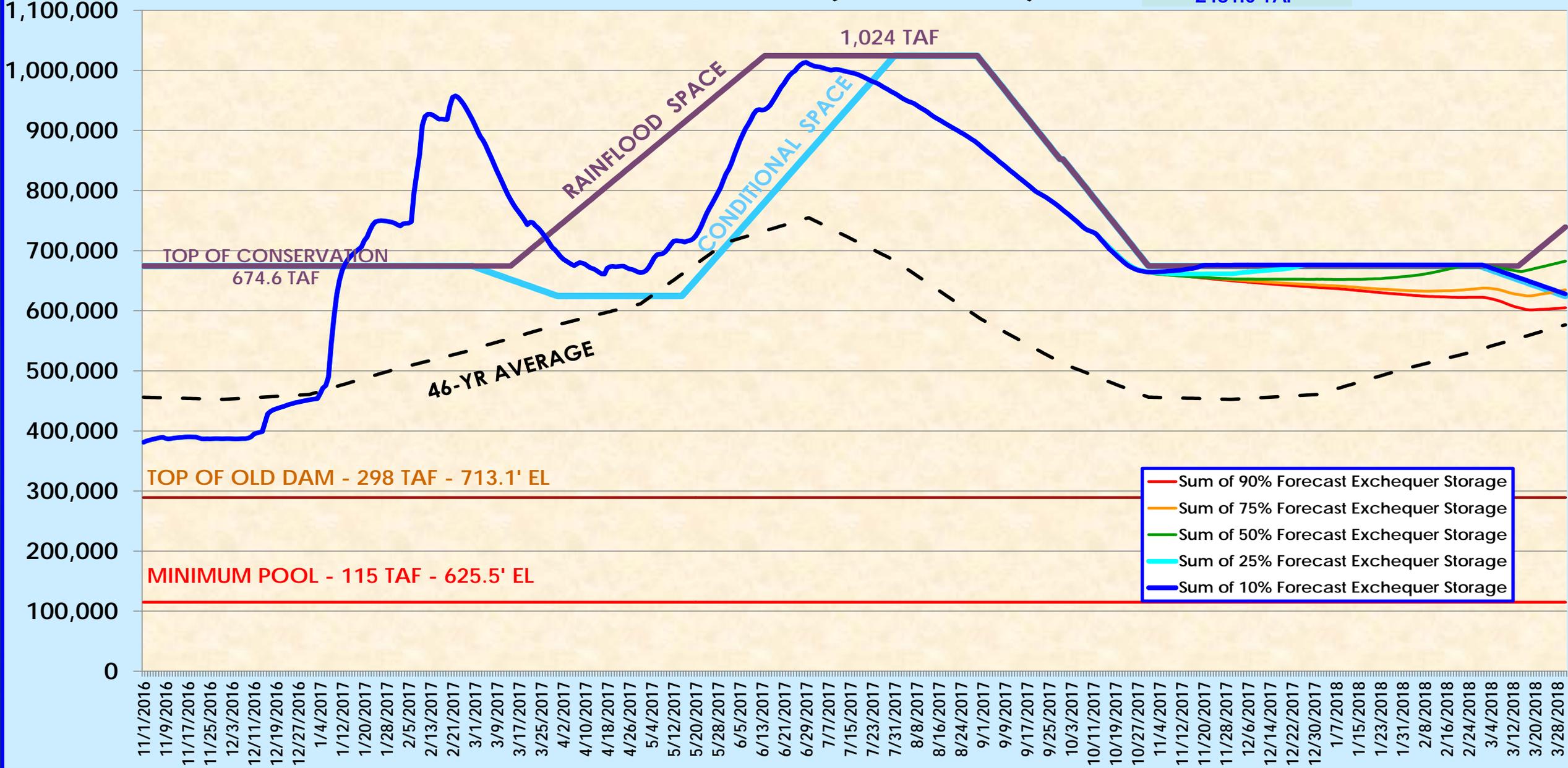
Merced Irrigation District

SNOW 2017

NEW EXCHEQUER - STORAGE FORECAST

October 11, 2017 (Acre-Feet)

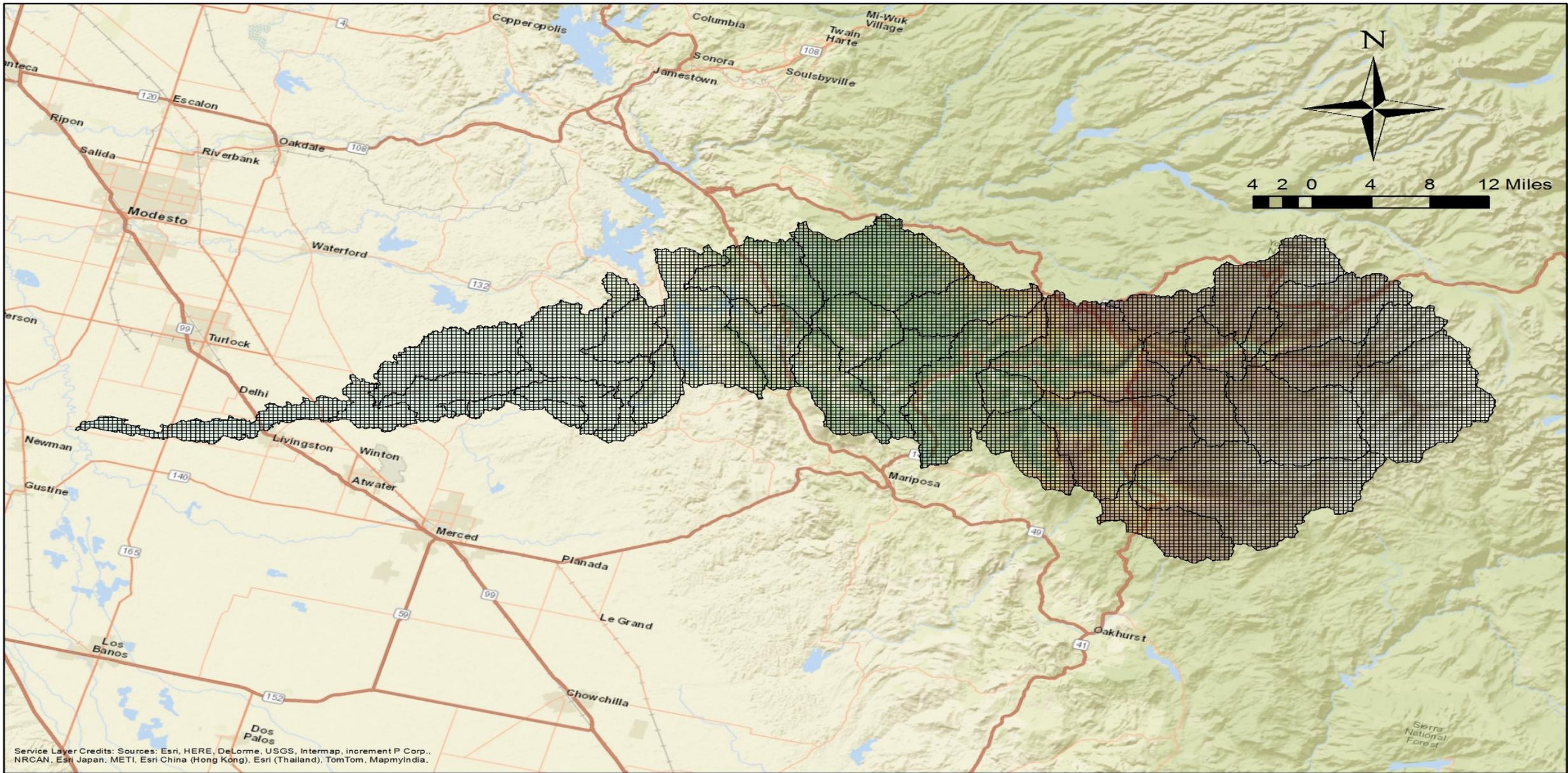
2017 Water Year
2481.0 TAF



Tenaya Lake - EL=8150'

SWE (inches)



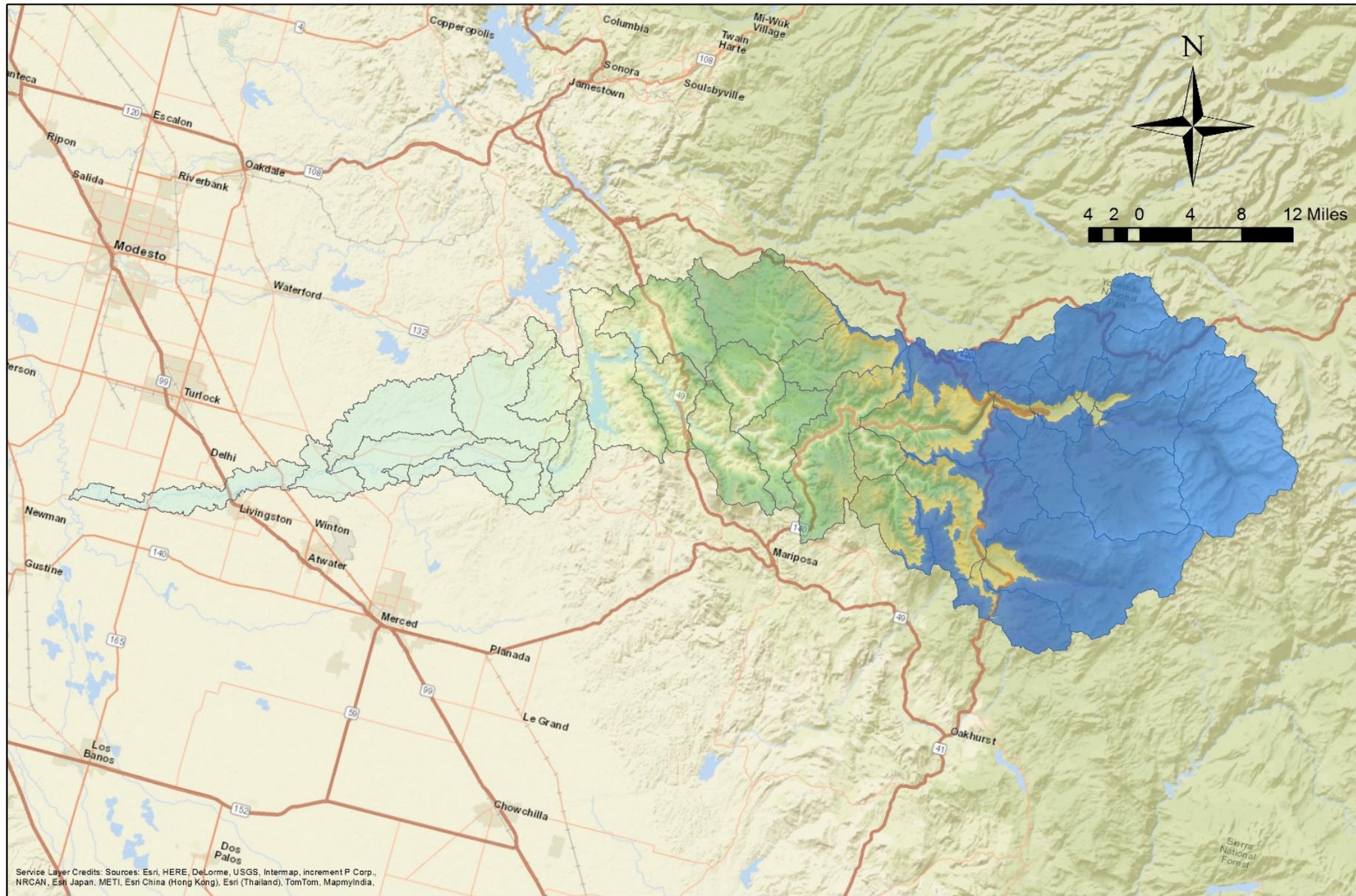


Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.

MIDH2O

Merced River Watershed
Cell Grids (500 m. sq.)

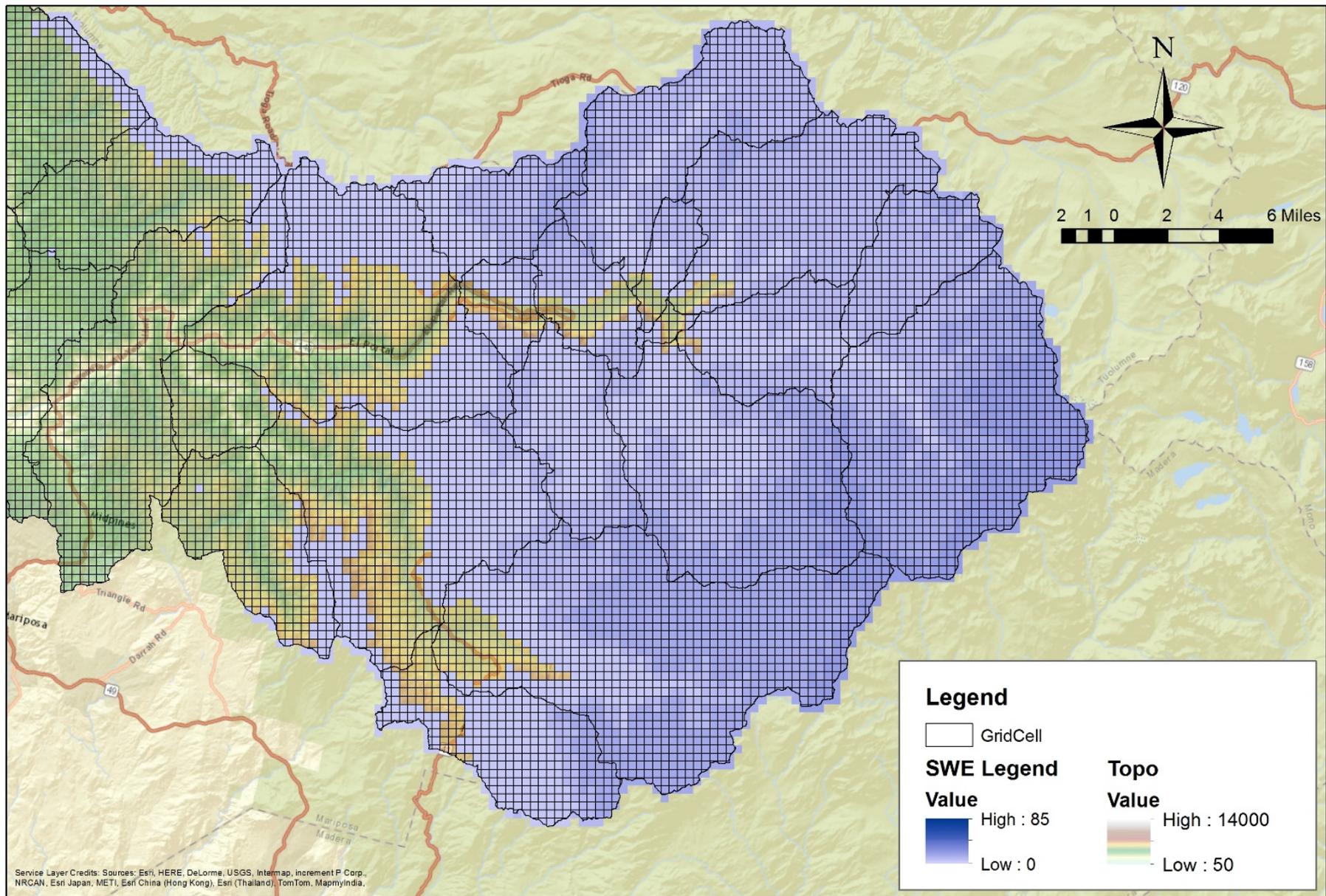




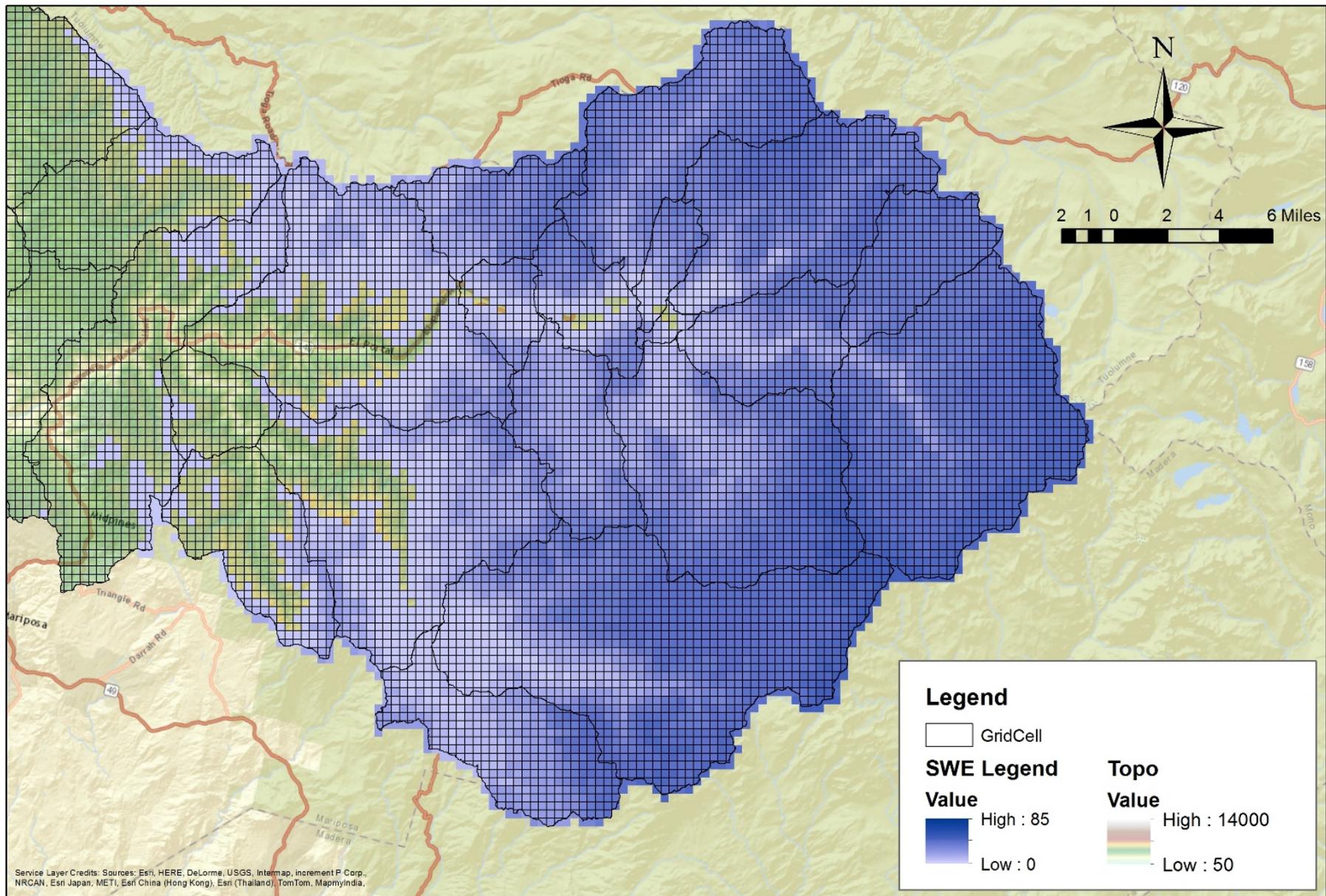
MIDH20

**Merced River Watershed
Snow Impacted Areas
(Above 5,000 Feet)**



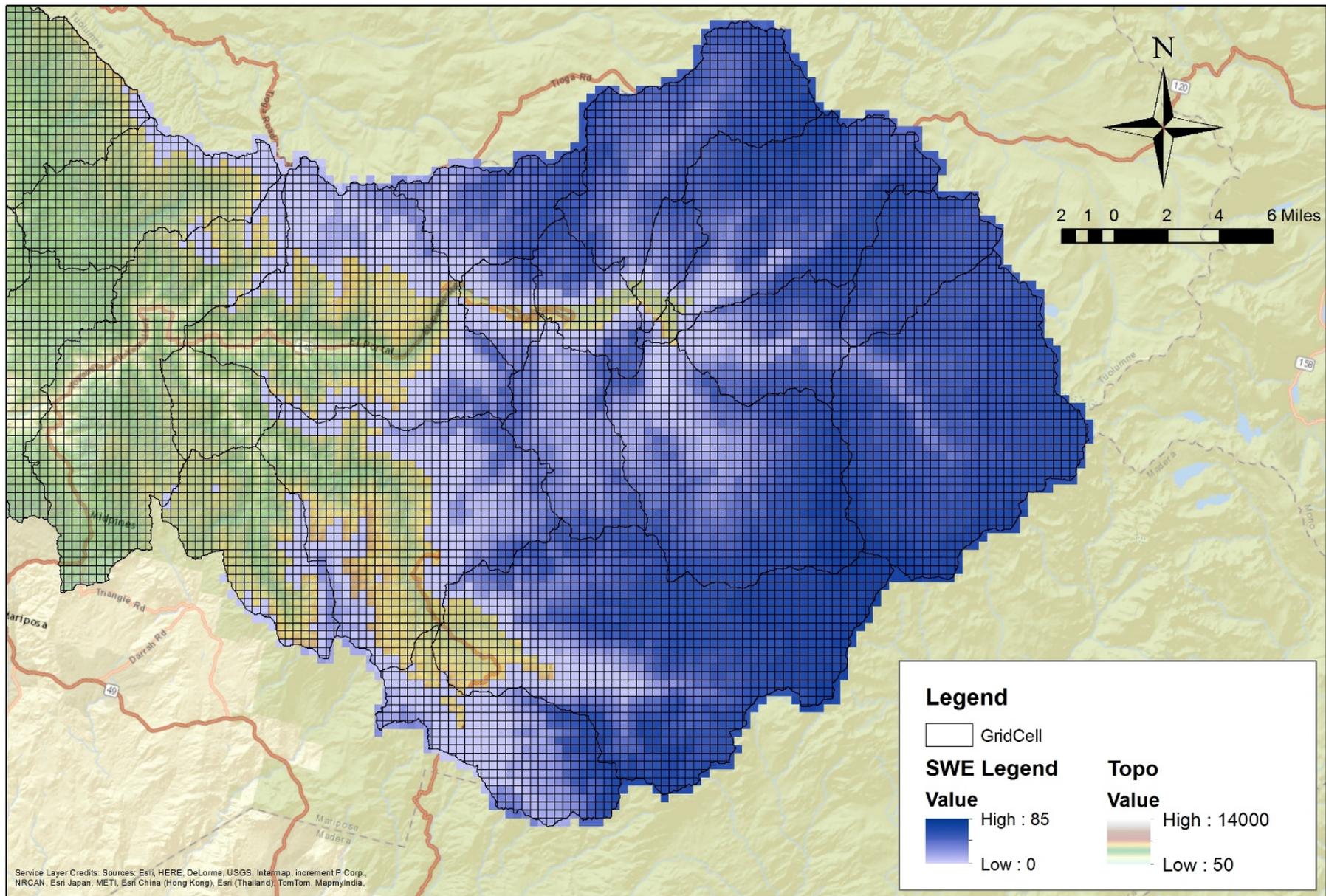


Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.

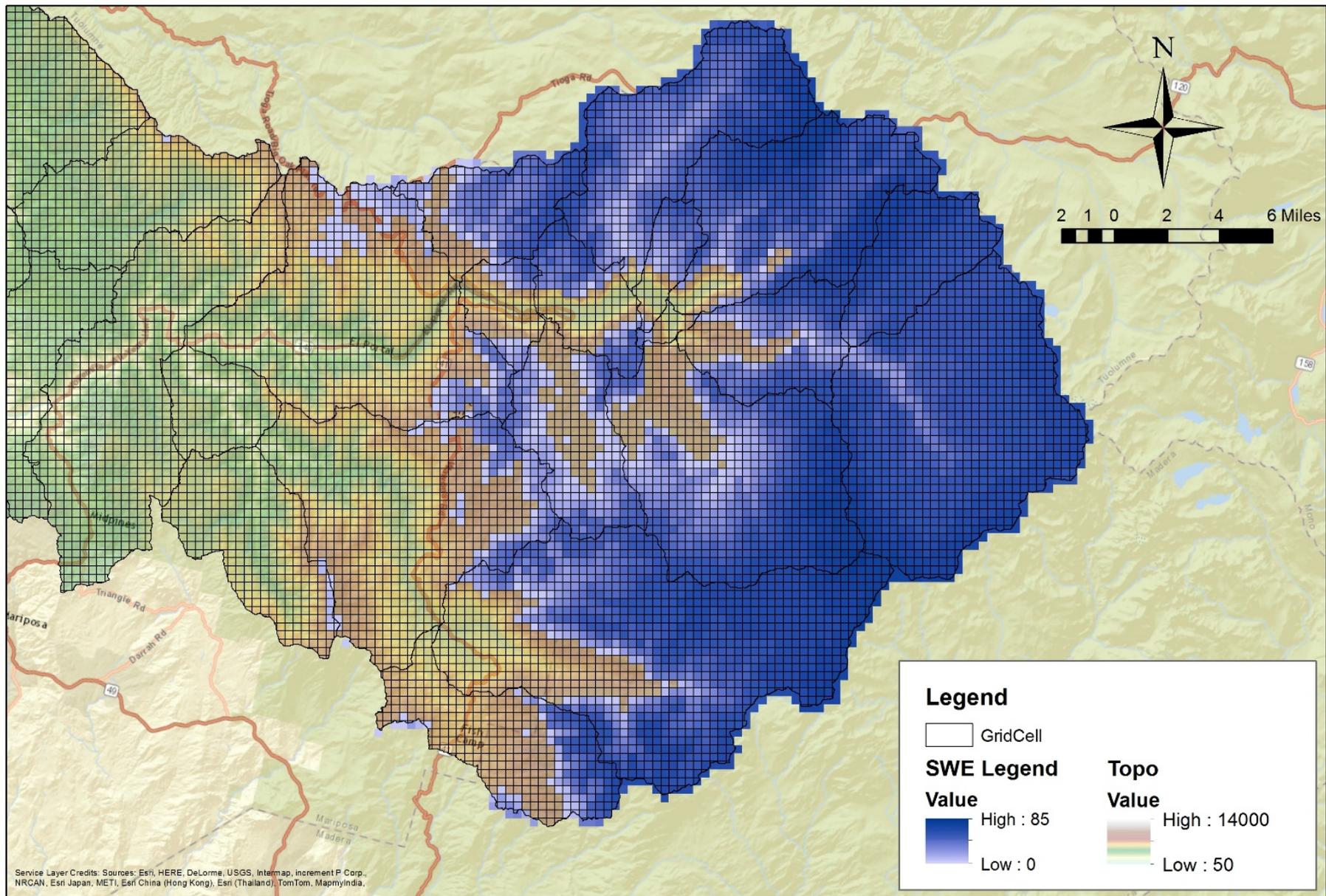


Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.

MIDH2O	Merced River Watershed Snow Water Equivalent Coverage Map On February 1, 2017	Total SWE (ac-ft) 728,867 Maximum SWE (in) 47.72
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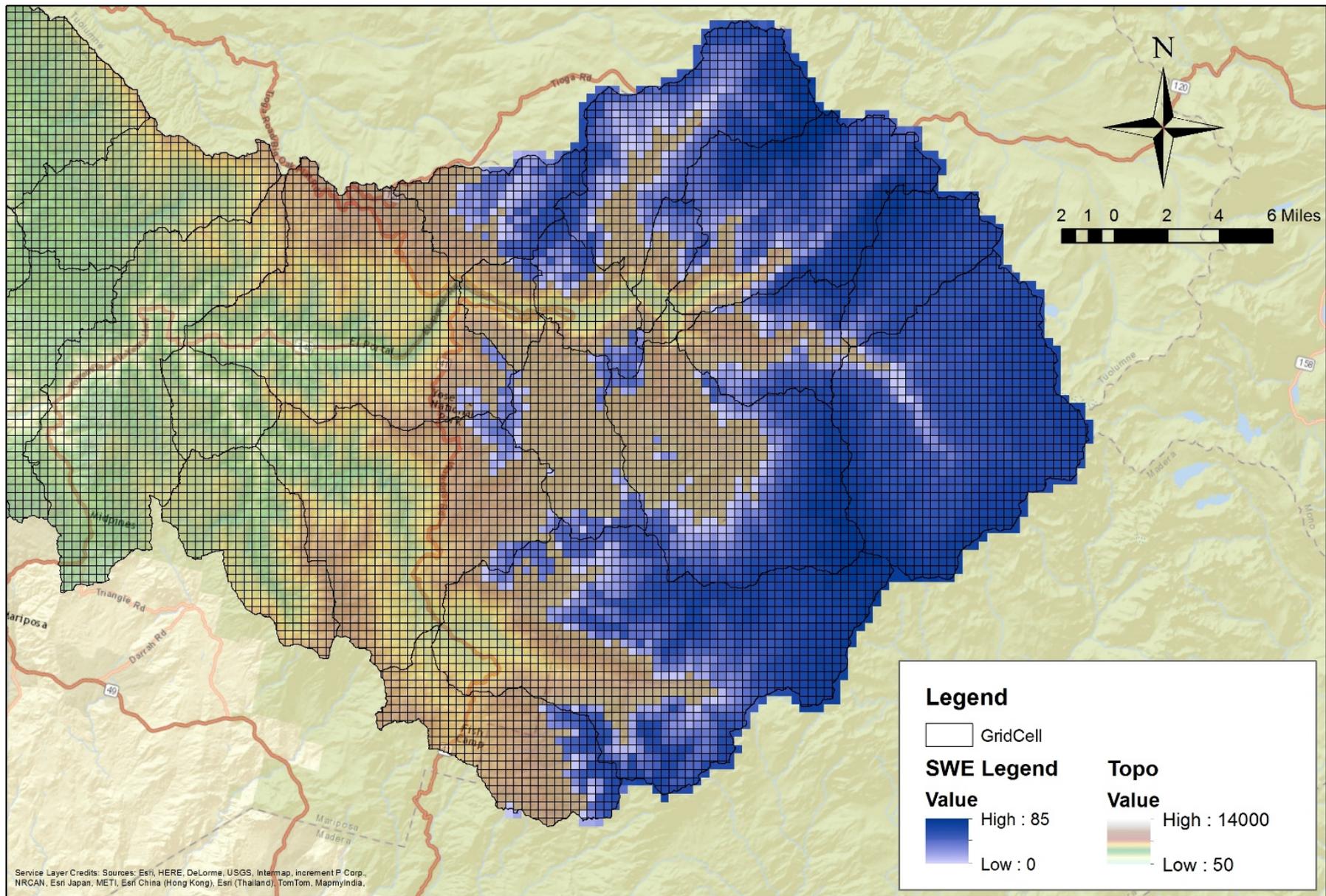


Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.



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MIDH2O	<p>Merced River Watershed Snow Water Equivalent Coverage Map On April 1, 2017</p>	<p>Total SWE (ac-ft) 964,206 Maximum SWE (in) 75.66</p>
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Legend

GridCell

SWE Legend

Value

High : 85

Low : 0

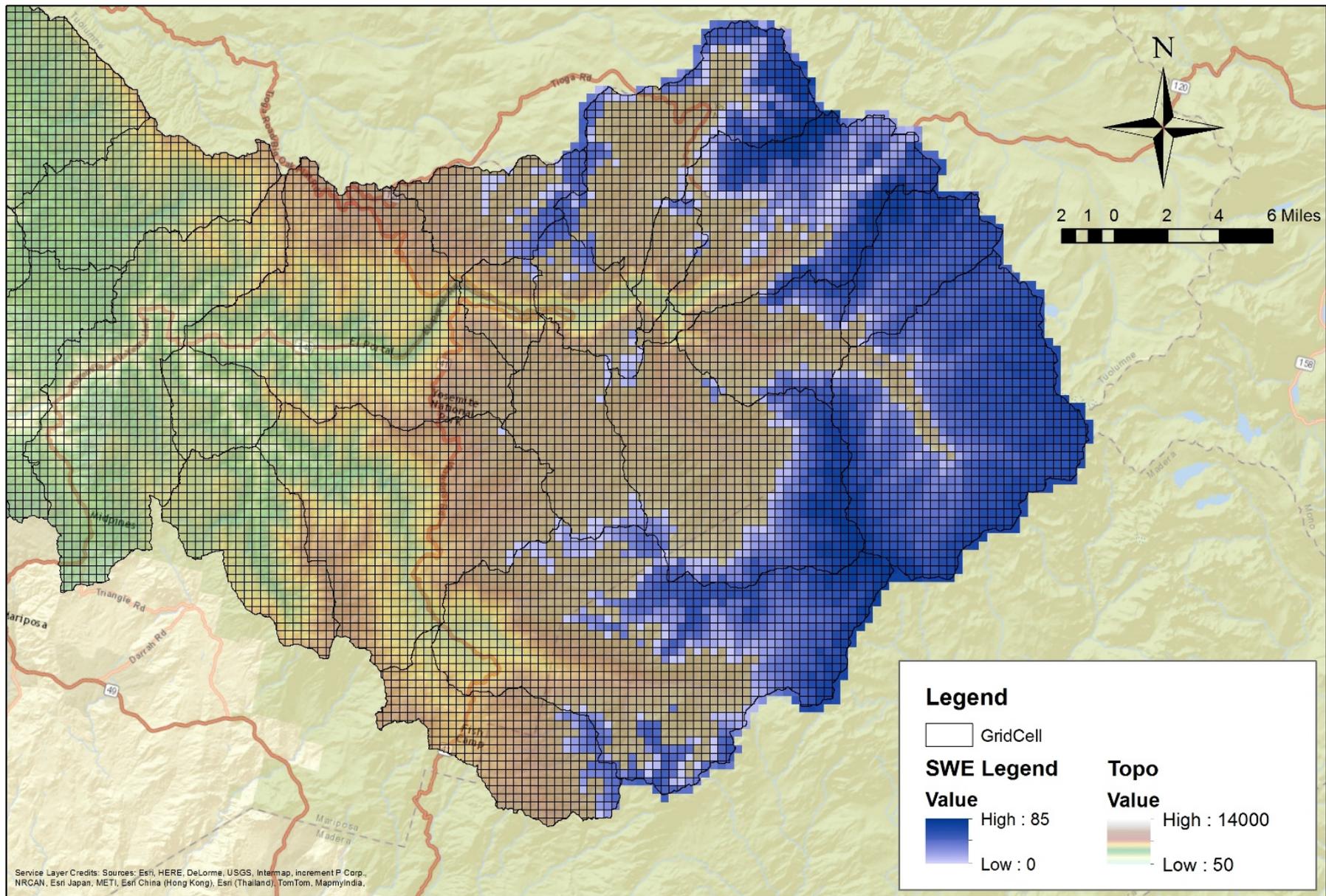
Topo

Value

High : 14000

Low : 50

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.



Legend

GridCell

SWE Legend

Value

High : 85

Low : 0

Topo

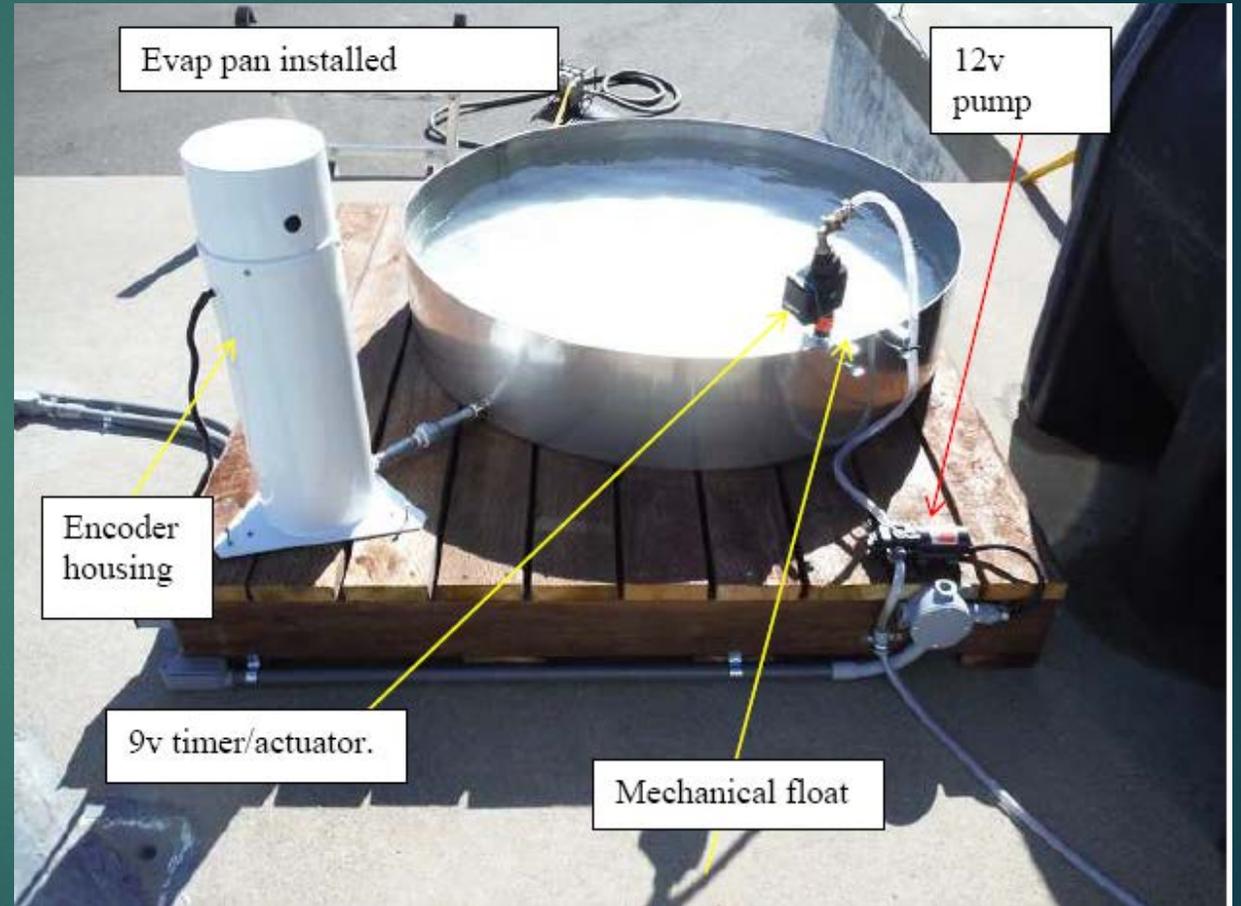
Value

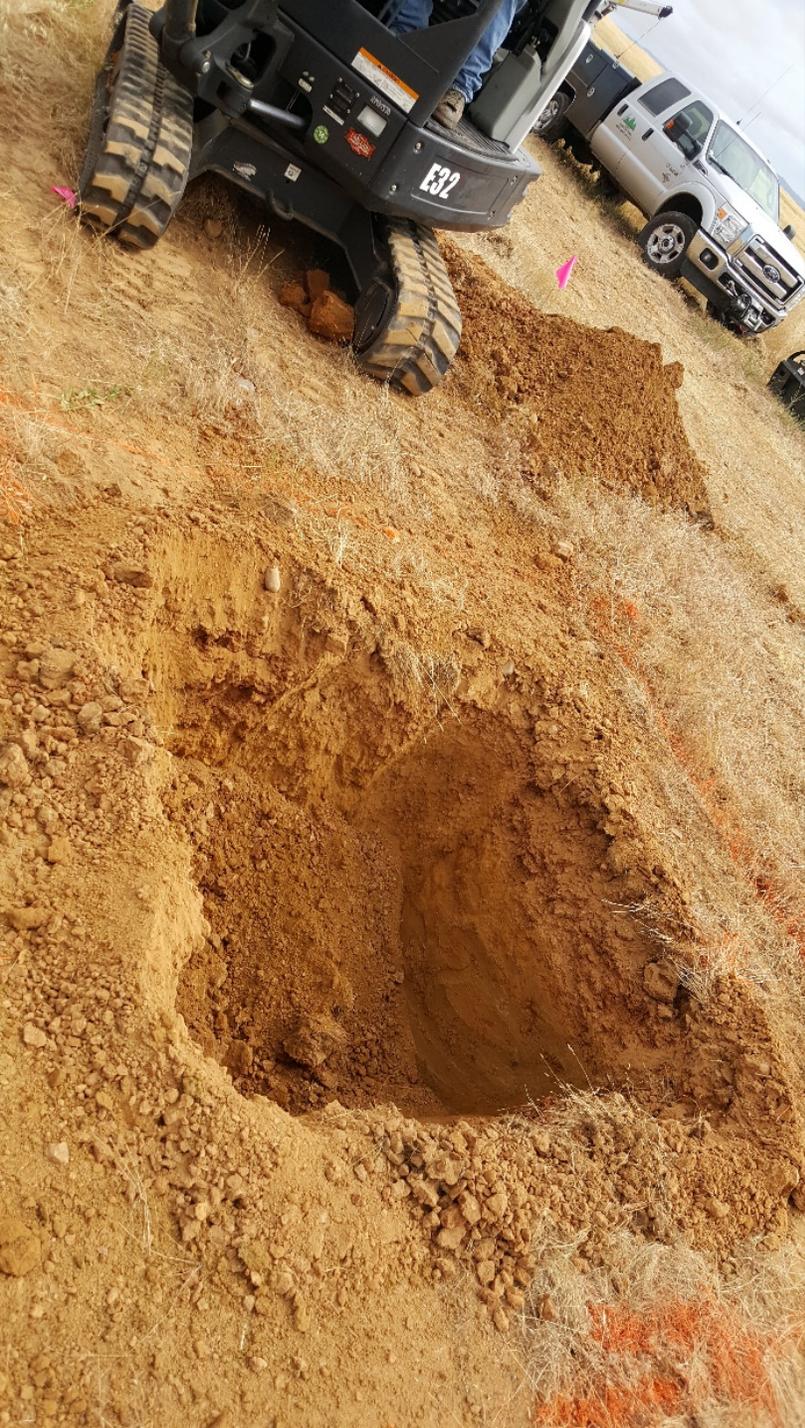
High : 14000

Low : 50

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia.

Station Number	Station	Planned Work	Lat	Long	EL
1	Lake McClure / Exchequer Reservoir (DWR - HMT)4	Evaporation Pan	37.5850	-120.2700	879
2	Merced River at Briceburg Bridge Upper Dry Creek basin (Snelling), along Highway 132 (MID) Upper Black Rascal Creek basin, along UCM Boundary Merced River at Gallo Bridge Merced River at Highway 59 Bridge UC Merced by Lake Yosemite (MID) New Weather Station at Headquarters	WX and Stage	37.6045	-119.9677	1165
3		WX and Stage	37.5785	-120.3894	324
4		WX and Stage	37.4335	-120.3416	390
5		WX and Stage	37.4681	-120.5387	165
6		WX and Stage	37.4703	-120.5002	187
7		WX	37.3691	-120.4201	193
8		WX	37.3056	-120.4858	170
9		Merced River at Shaffer Bridge (CDEC: MBN)	Upgrade Only	37.4542	-120.6078
10	Mariposa Grove (YNP, CDEC ID: MPG) Merced Lake (COOP, CDEC ID: MLK) Merced River at Happy Isles (USGS, CDEC ID: HIB) Merced River at Cressy (DWR, CDEC ID: CRS) Ostrander Lake (DWR, CDEC ID:STR) Tenaya (DWR, CDEC ID:TNY) CIMIS gage #CI148 near Merced (DWR - CIMIS)5	Various Upgrades (DWR)	37.5000	-119.6000	6400
11		Various Upgrades (DWR)	37.7386	-119.4057	7300
12		Various Upgrades (DWR)	37.7316	-119.5588	4016
13		Various Upgrades (DWR)	37.4250	-120.6630	165
14		Various Upgrades (DWR)	37.6370	-119.5500	8200
15		Various Upgrades (DWR)	37.8380	-119.4480	8150
16		Various Upgrades (DWR)	37.3141	-120.3867	200
17		Black Rascal Creek at Yosemite (USACE)5	Precipitation & Temperature	37.3324	-120.3942
18	New Weather Station at Fish Lake New Weather Station at Iron Lake	Removed from program	37.4752	-119.6396	5400
19		Removed from program	37.4838	-119.5071	8600











UC Merced - http://cdec.water.ca.gov/cgi-progs/staMeta?station_id=UCM

Gallo - http://cdec.water.ca.gov/cgi-progs/staMeta?station_id=AMR

Hwy 59 - http://cdec.water.ca.gov/cgi-progs/staMeta?station_id=H59

Merced River Basin



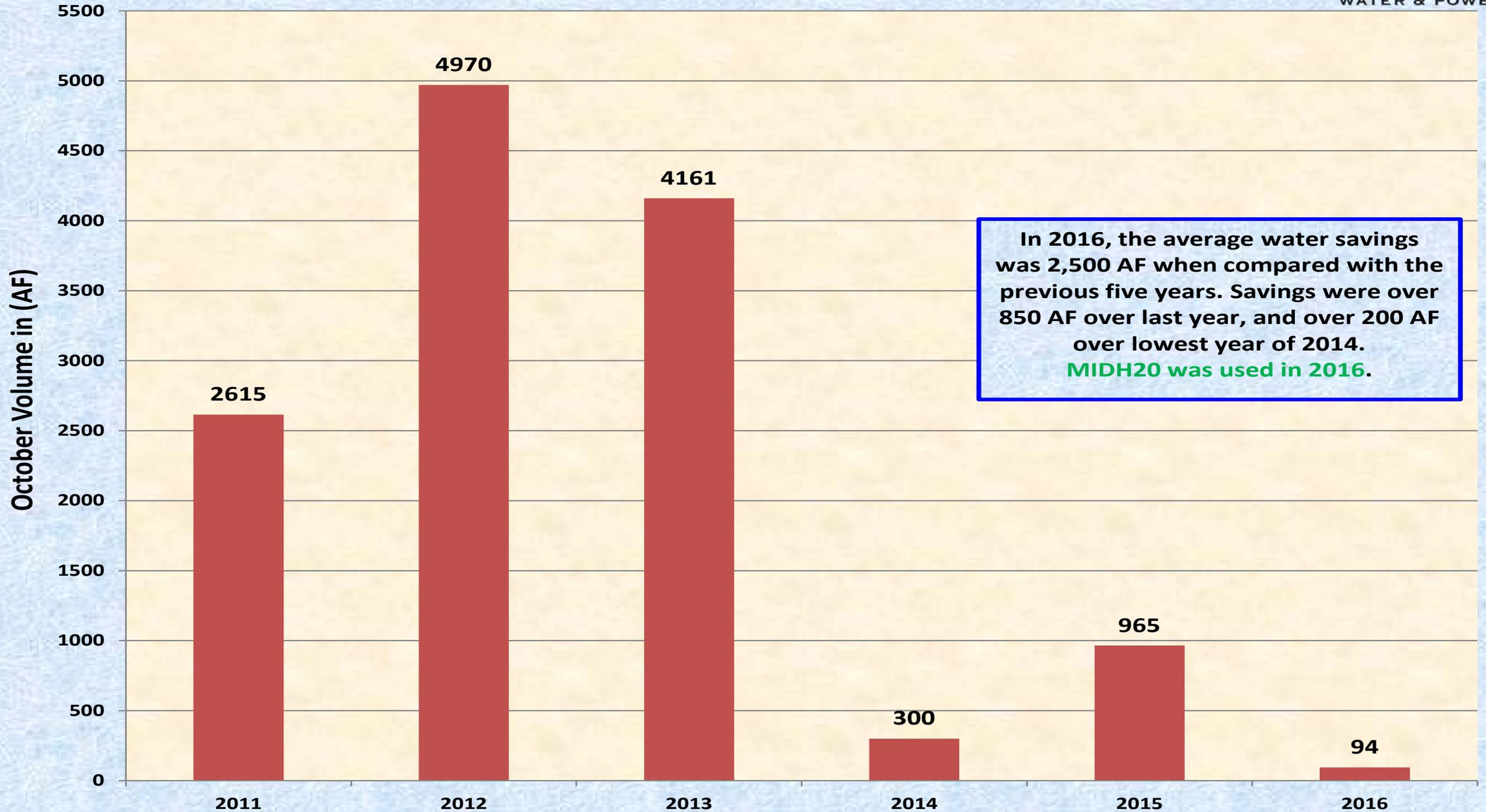
HEC-RTS



US Army Corps of Engineers

- **HEC-DSS** Utility programs provide “batch” type data entry capabilities from a variety of formats.
- **HEC-HMS** is designed to simulate the precipitation-runoff processes of dendritic watershed systems.
- **HEC-RAS** allows you to perform one-dimensional steady flow and unsteady flow modeling.
- **HEC-ResSim** is designed to be used to model reservoir operations at one or more reservoirs whose operations are defined by a variety of operational goals and constraints.

Oct Pulse Waste Flows - October Month Total Volume (AF)



View from Sentinel Dome – Jan 22, 2017



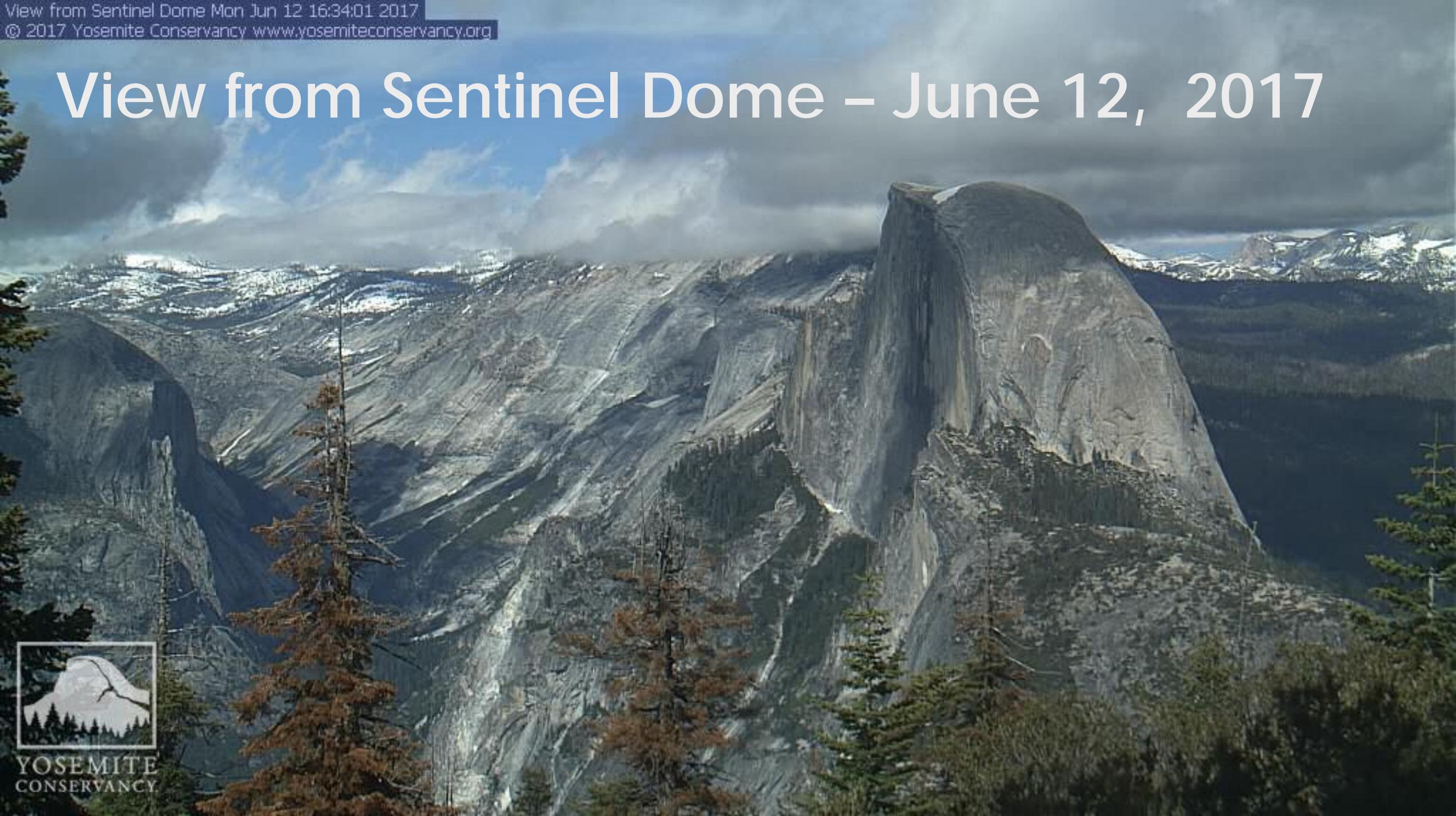
View from Sentinel Dome – March 31, 2017



View from Sentinel Dome – May 1, 2017



View from Sentinel Dome – June 12, 2017



YOSEMITE
CONSERVANCY

View from Sentinel Dome – July 16, 2017

Questions

