

# Wayland Water Levels – 2011 to 2016

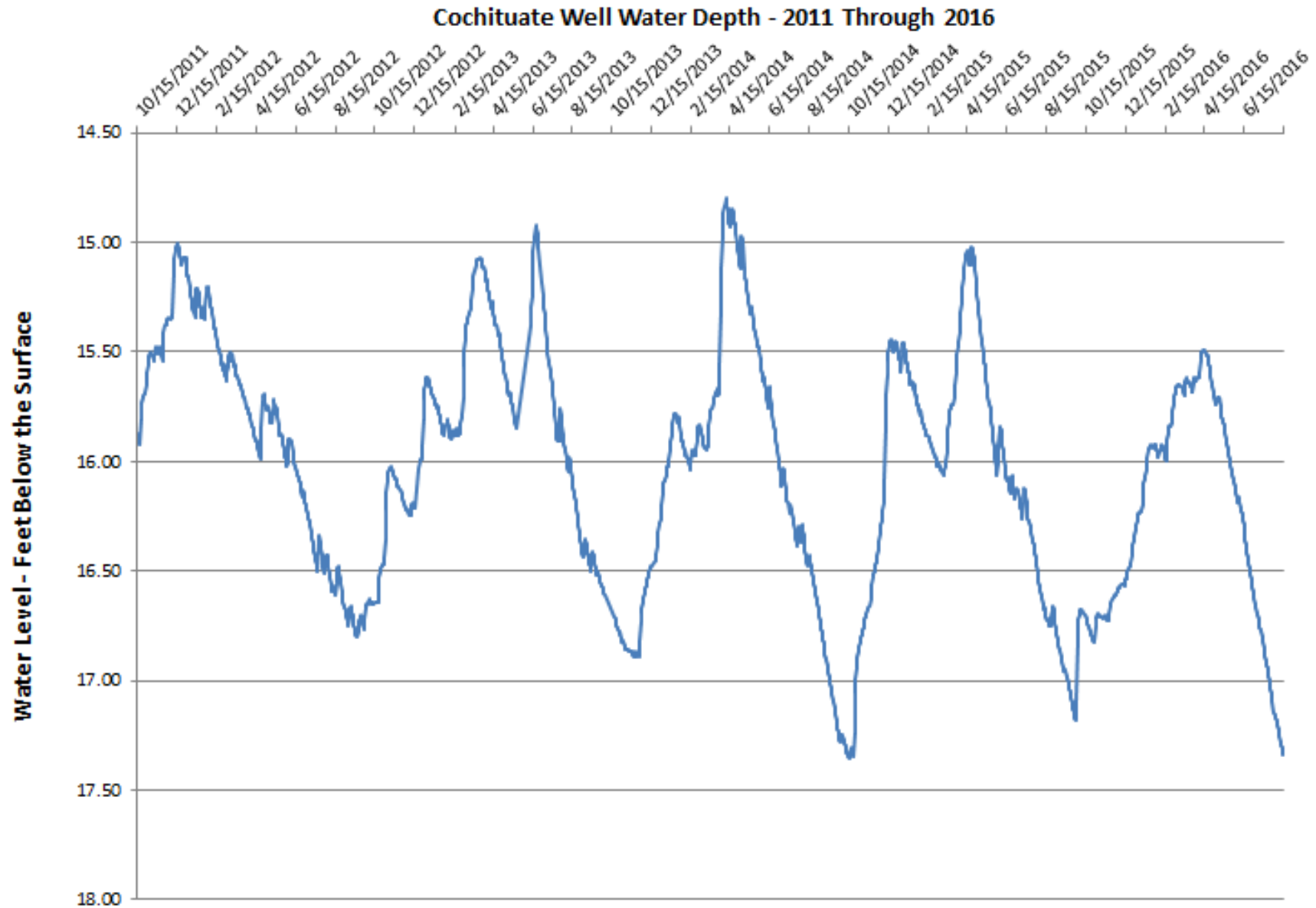
The US Geological Survey (USGS) maintains a monitoring well in Cochituate State Park, which provides a reference point for ground water levels in the Wayland area:

- **LOCATION:** Lat 42°18'52", long 71°22'05", Middlesex County, Hydrologic Unit 01070005, 0.25 mi west of State Highway 27 and 125 ft southeast of State Highway 30, at Cochituate State Park Headquarters in Wayland, MA.
- **AQUIFER:** Sand and gravel, glaciated regions; outwash deposits.
- **WELL CHARACTERISTICS:** Drilled observation water-table well, depth 33 ft, screened 31 ft to 33 ft.
- **INSTRUMENTATION:** Data Collection Platform with telephone telemeter, October 2010 to current year. Monthly measurements prior to October 2010.
- **DATUM:** Elevation of land-surface datum of well is 153.78 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of well casing, 2.76 ft above land-surface datum.
- **PERIOD OF RECORD:** January 1965 to current year.

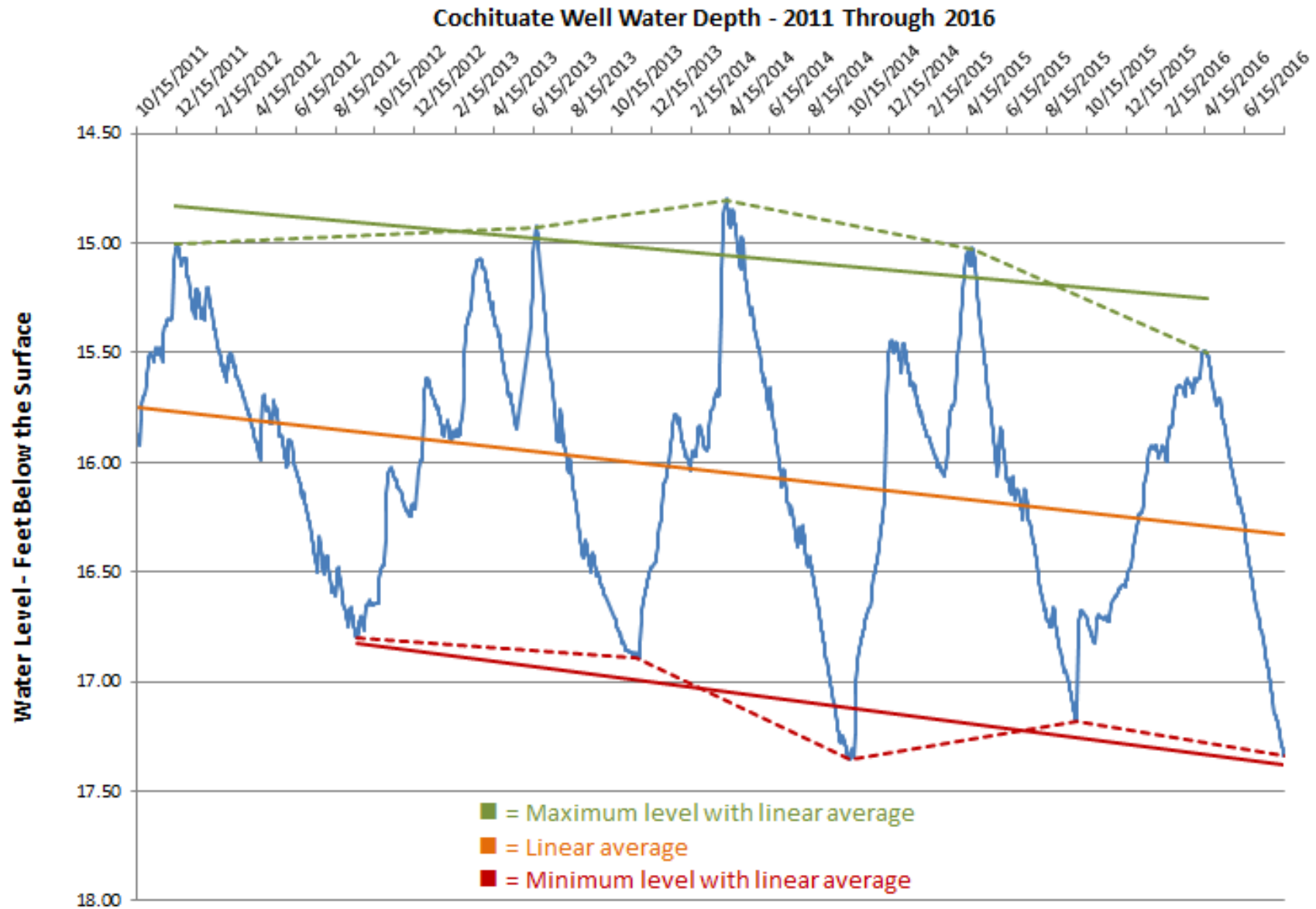
The following slides include graphs of water levels from October, 2011 through August 14, 2016, using the available daily records from this well. Seasonal variations are clear. Linear averages are shown for all records and the annual minimum and maximum level.

We have not reached the minimum for 2016. The average date based on 2012 – 2015 will be October 13. The projected minimum is 18.27 feet, another a sharp drop.

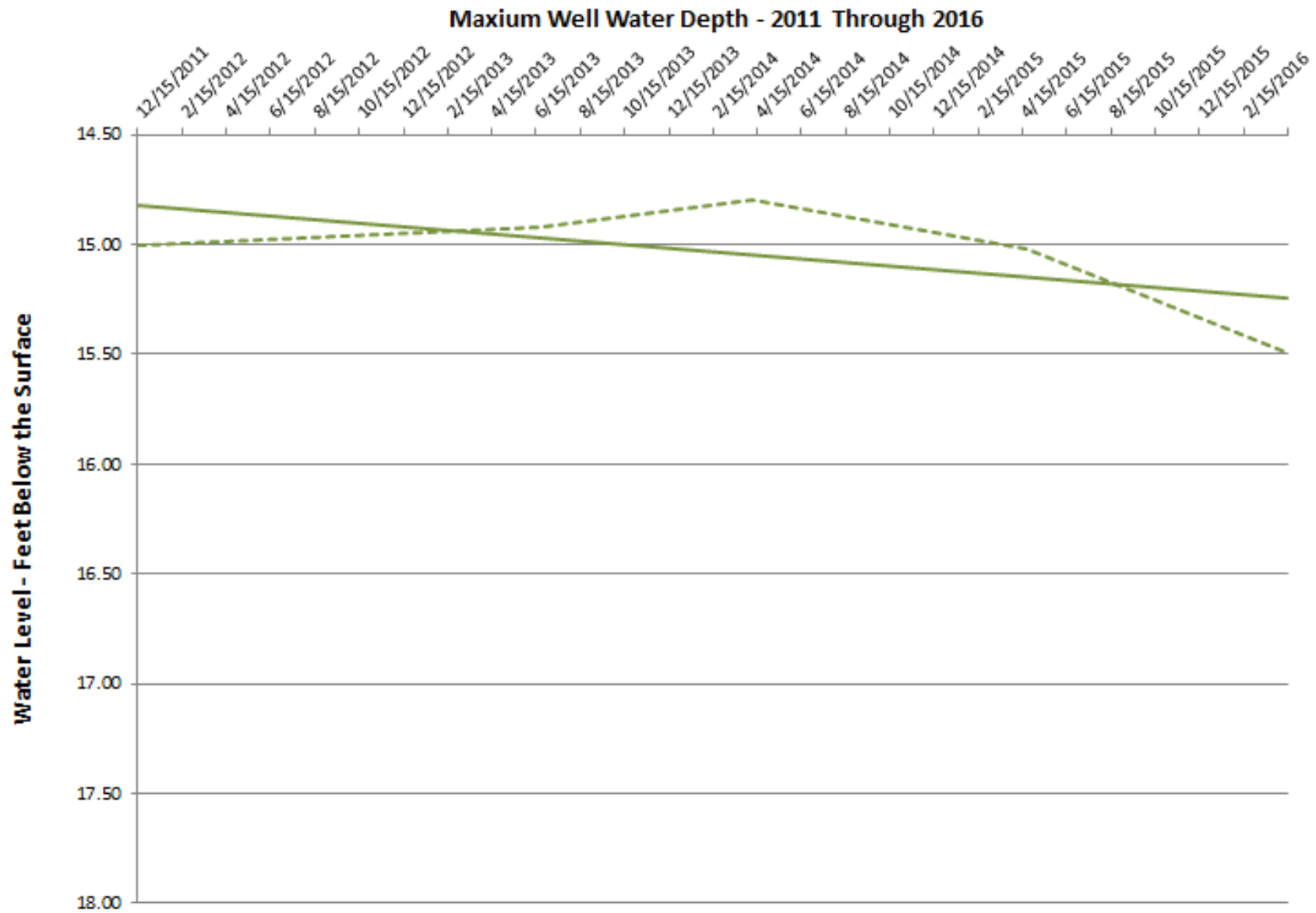
# Wayland water: annual cycles



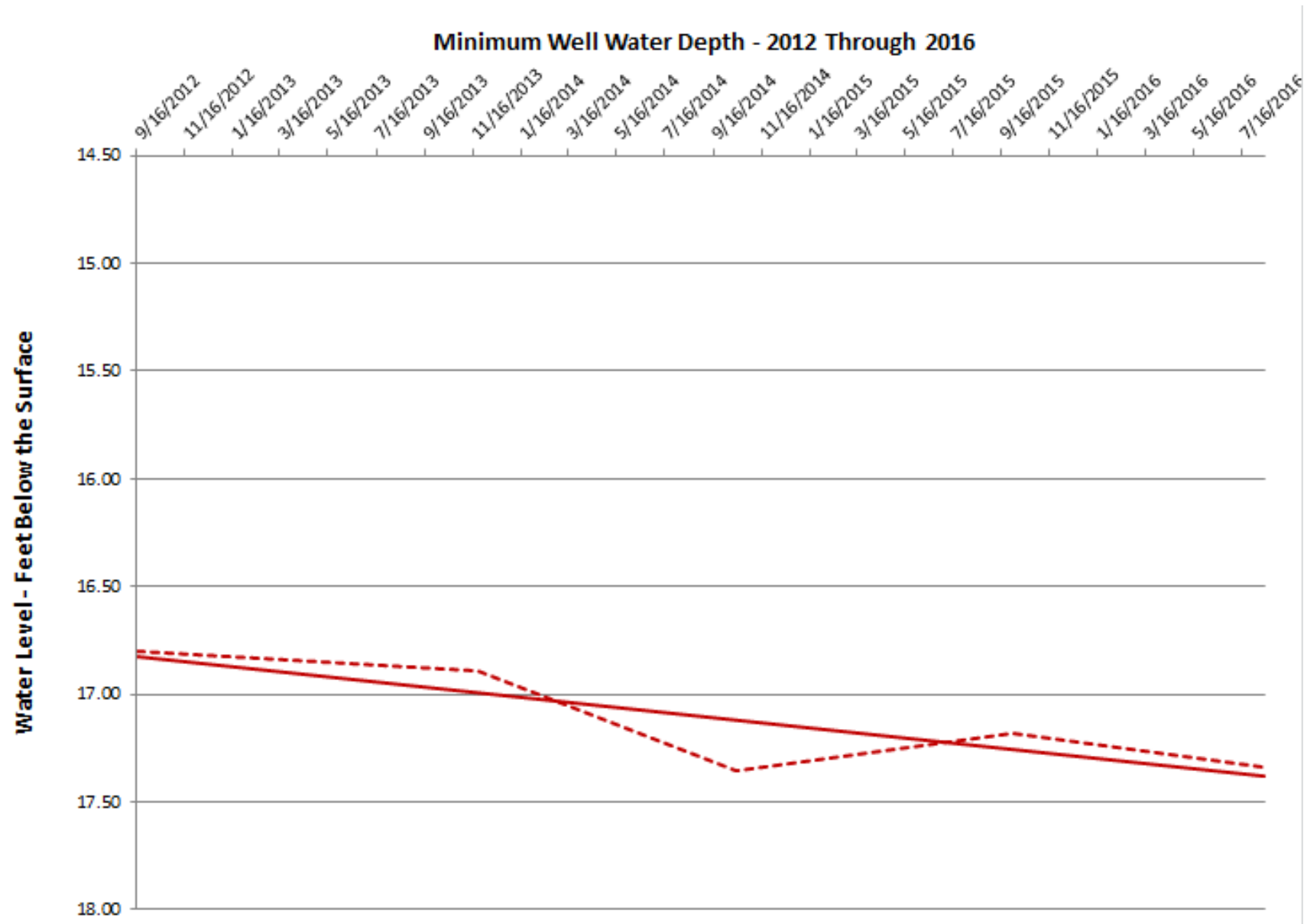
# Wayland water: steadily declining averages



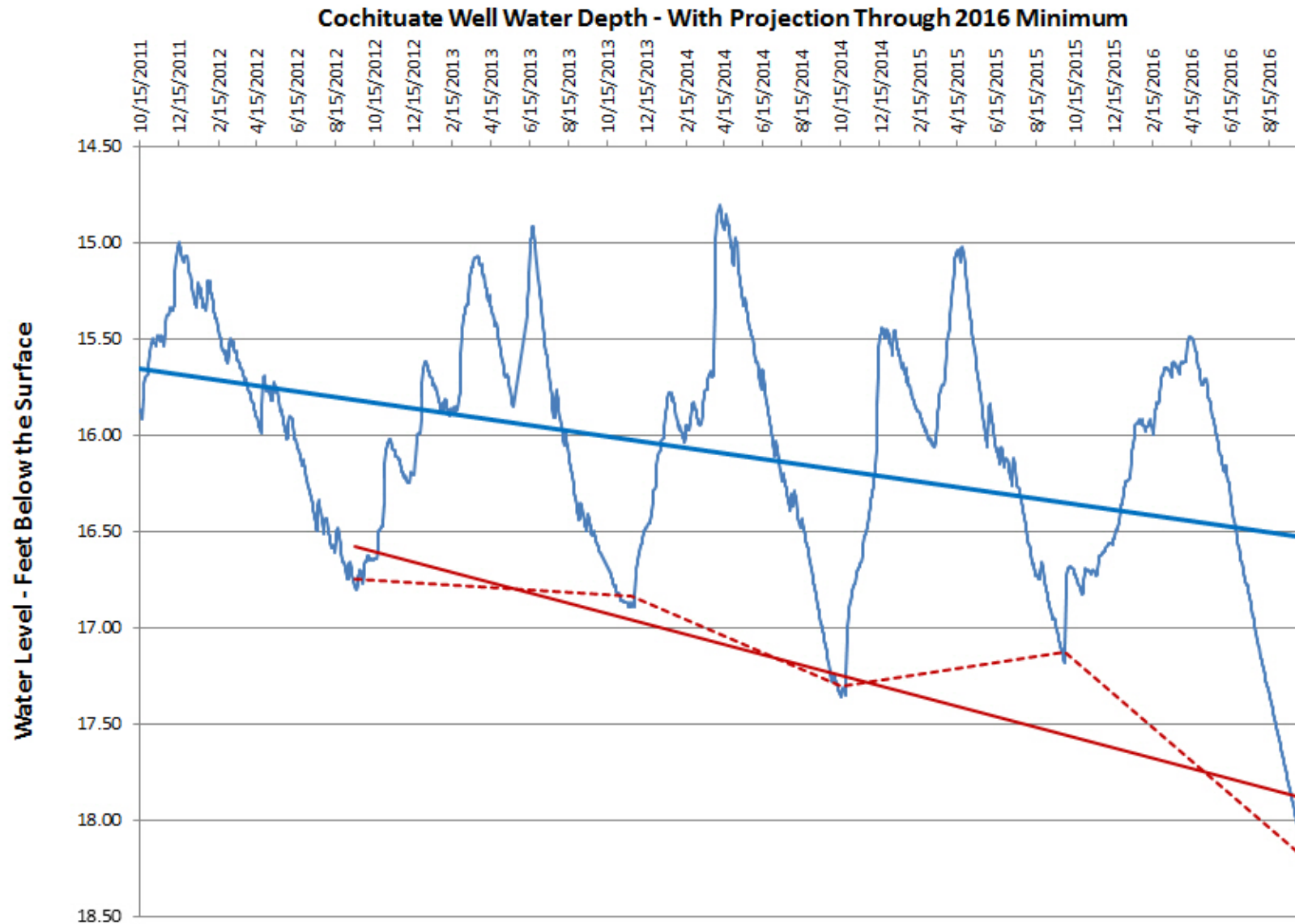
# Wayland water: maximum levels with trend



# Wayland water: minimum levels with trend



# Wayland water: projection through 2016



We have not reached the minimum for 2016. The average 'low date' based on 2012 – 2015 will be October 13. The projected minimum is 18.27 feet, another a sharp drop.