### Conclusions

* **What are the overall trends?**
  + *Temperature:* Four monitoring stations (USGS 14197900, USGS 14192015, 10393, and 10948) have sufficient data to calculate the temperature seven day average daily maximum (7DADM) and compare results to the water quality criteria within the Yamhill AgWQ Management Area. All monitoring stations have exceedances of the water quality criteria within the last two years of available data. None of the monitoring stations have significant trends. The USGS monitoring stations have continuous data.
  + *pH:* Three monitoring stations (10393, 10929, and 10948) have sufficient data to assess status and/or trends of pH within the Yamhill AgWQ Management Area. The results for station 10363 have decreasing (degrading) trends and there are exceedances of the pH water quality criteria within the last two years (2015-2017) of data. Stations 10929 and 10948 do not have significant trends and do not have any exceedances of the water quality criteria during the last two years of data (2015-2017).
  + *E. coli:* Three monitoring stations (10393, 10929, and 10948) have sufficient data to assess status and/or trends of *E. coli* within the Yamhill AgWQ Management Area. Stations 10363 and 10948 do not have enough data to calculate the geometric mean during the entire timeframe (2000-2017). None of the monitoring stations had significant trends and all had at least one exceedance of the water quality criteria within the last two years of data (2015-2017).
  + *Dissolved Oxygen:* Three monitoring stations (10393, 10929, and 10948) have sufficient data to assess status and/or trends of dissolved oxygen within the Yamhill AgWQ Management Area. None of the stations have continuous data and none display significant trends. All stations have exceedances of the water quality criteria within the last two years of data (2015-2017).
  + *Total Phosphorus:* Three monitoring stations (10393, 10929, and 10948) have sufficient data to assess status and trends of total phosphorus within the Yamhill AgWQ Management Area. No monitoring stations had results that represented significant trends. All monitoring stations had consistent exceedances of the TMDL load allocation of 0.07 mg/l through the entire timeframe.
  + *Total Suspended Solids:* Three monitoring stations (10393, 10929, and 10948) have sufficient data to assess trends of total suspended solids within the Yamhill AgWQ Management Area. Stations 10498 and 10929 had significant trends; station 10948 displays significant steady trends, while 10929 displays significant increasing (degrading) trends. Data was not compared to a TMDL load allocation since one has not been developed.
* **Additional Conclusions:**
  + Monitoring stations with sufficient data to assess status and/or trends do not display spatial homogeneity within the Yamhill AgWQ Management Area.
  + No monitoring stations that fit the criteria to assess status and/or trends have continuous dissolved oxygen or pH data, which is useful to understand the diurnal fluctuations.
  + All monitoring stations with total phosphorus data have exceedances of the TMDL load allocation, expressed in the 1992 Yamhill Subbasin TMDL.
  + All monitoring stations with temperature and *E. coli* data exceedances correspond with data exceeding upstream in the middle Willamette TMDL( Springbrook, Chehalem, etc) that was used for TMDLS