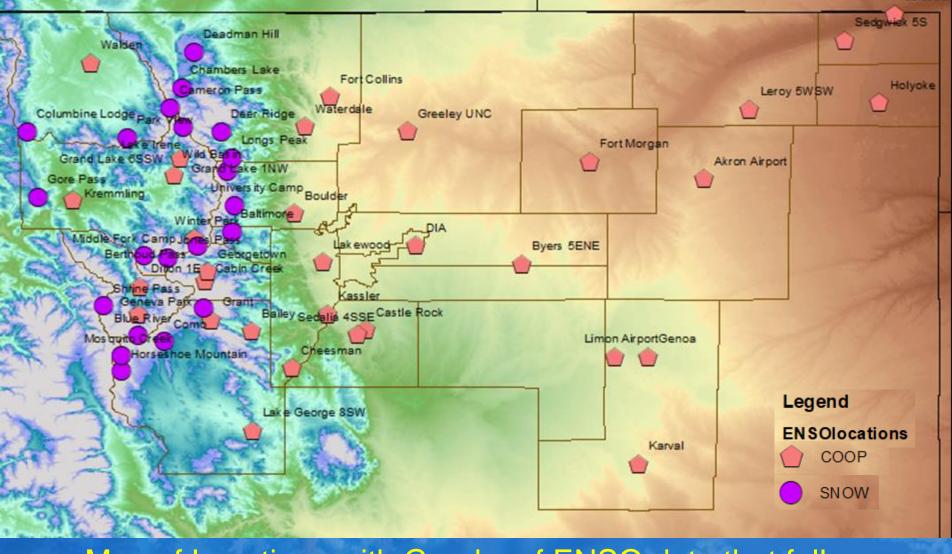


The northerly and westerly upslope flow areas favor a La Nina wet bias. The La Nina impacts may 'spill over' the Continental Divide into the high country of Larimer & Boulder Counties in particular. Lower elevations favor an El Nino wet bias. What do you think? Are correlations for some sites high enough to base a general prediction of higher or lower precipitation or is the correlations not very high?

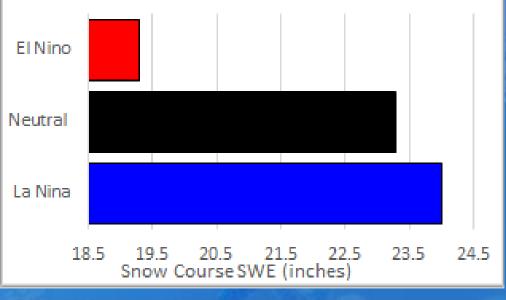
## How Can ENSO Conditions Potentially Impact Winter Precipitation/Snowpack in North Central & Northeast CO

- The previous slide sums up the winter influences of a moderate or strong El Nino & La Nina. The remainder of the slides below just attempt to show if there is a correlation between precipitation & ENSO climate patterns at specific sites.
- Graphs at the top of each page (below) show the snowpack SWE in the spring at NRCS snow course sites & NWS Cooperative Observers for El Nina, La Nina, and neutral ENSO events.
- Graphs farther down show October 15 through April 15th precipitation totals at Airport and NWS Cooperative Observer sites split into El Nino, La Nina, and neutral ENSO events.
- Only winters where the El Nino, La Nina, or neutral ENSO prevailed from the fall into the next spring were included.
- Did not differentiate between weak, moderate or strong El Ninos and La Ninas on the graphs. The stronger the El Nino/La Nina ends up being, the higher chances of the ENSO conditions being a significant influence on the weather pattern. If the El Nino/La Nina is weaker, there are more opportunities for other factors to influence it.
- The maps are elevations contours.
- Results: a lot of year to year variability as shown on the trend graphs. Mixed outcomes at best it seems for many locations?



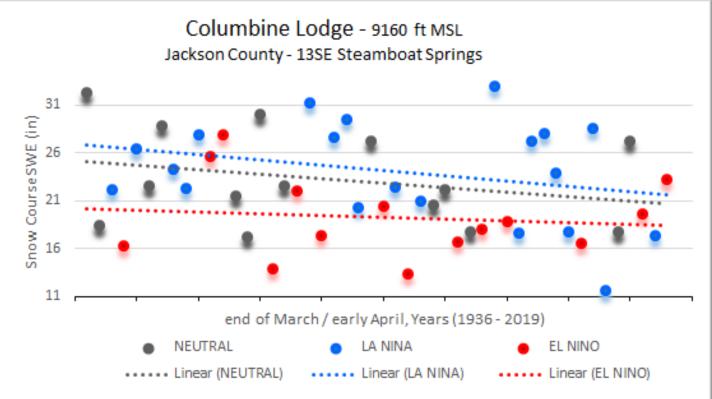
Map of Locations with Graphs of ENSO data that follow

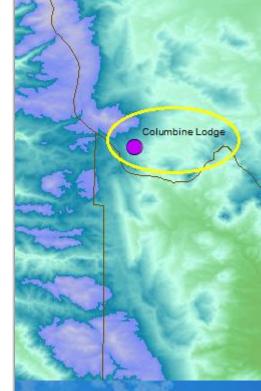
Snow Courses (courtesy of NRCS) are purple points on the map. NWS Cooperative Observers are the fuchsia points on the map.

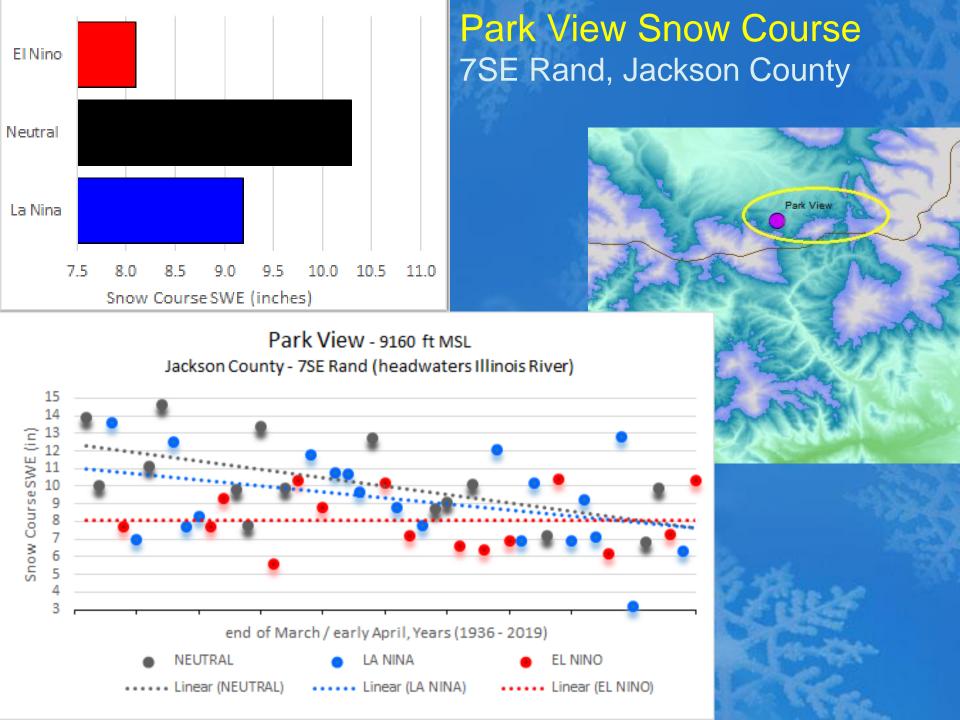


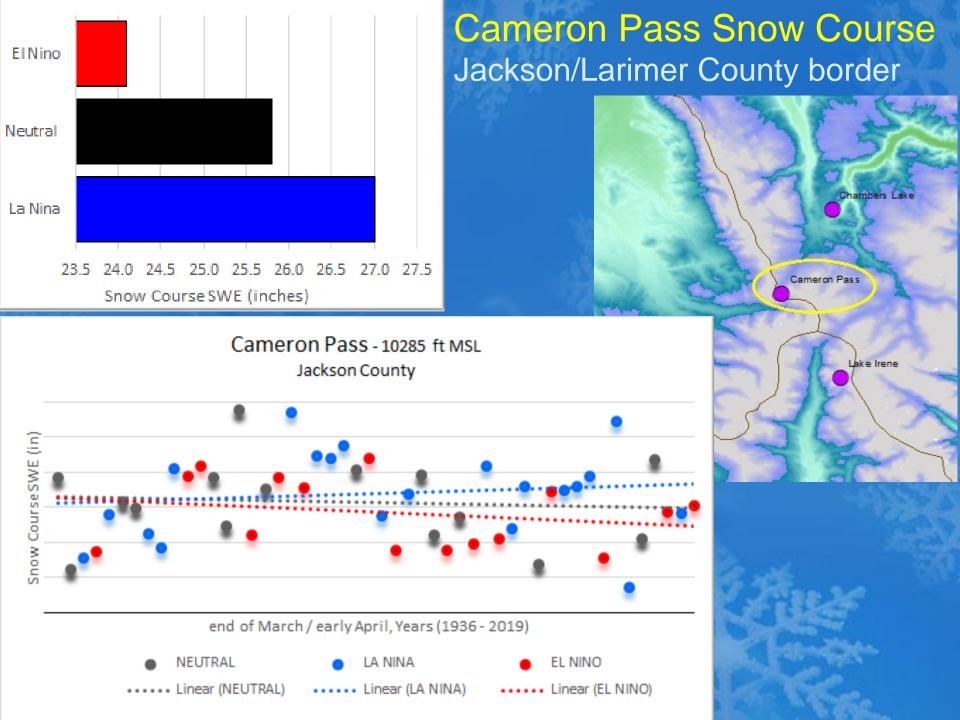
## North Central Mountains – North Platte River Basin

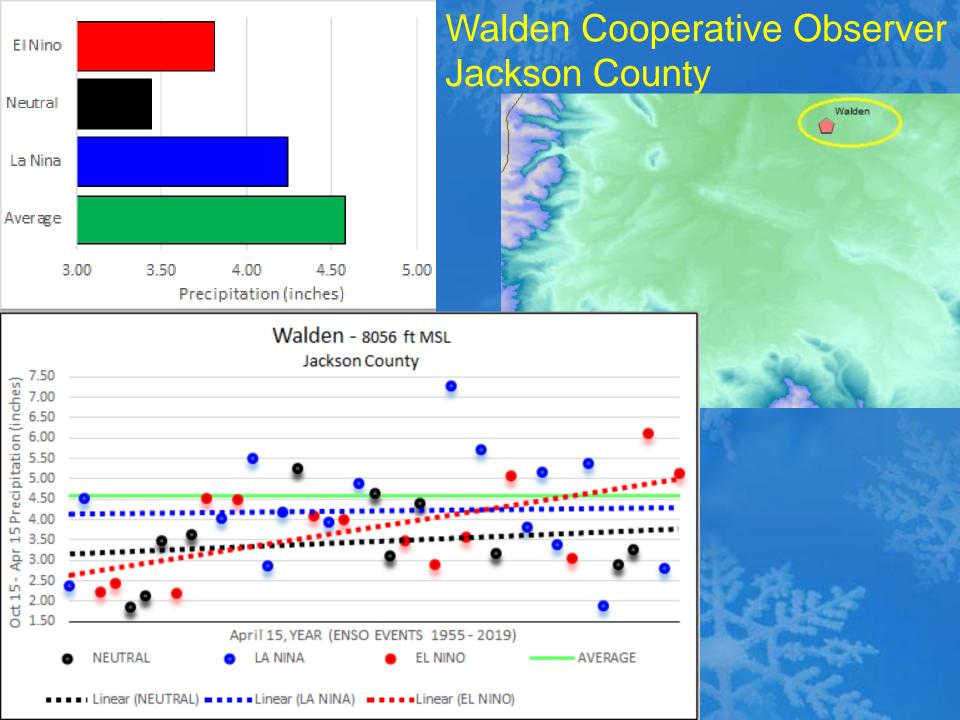
Columbine Lodge
13SE of Steamboat Springs,
Jackson County

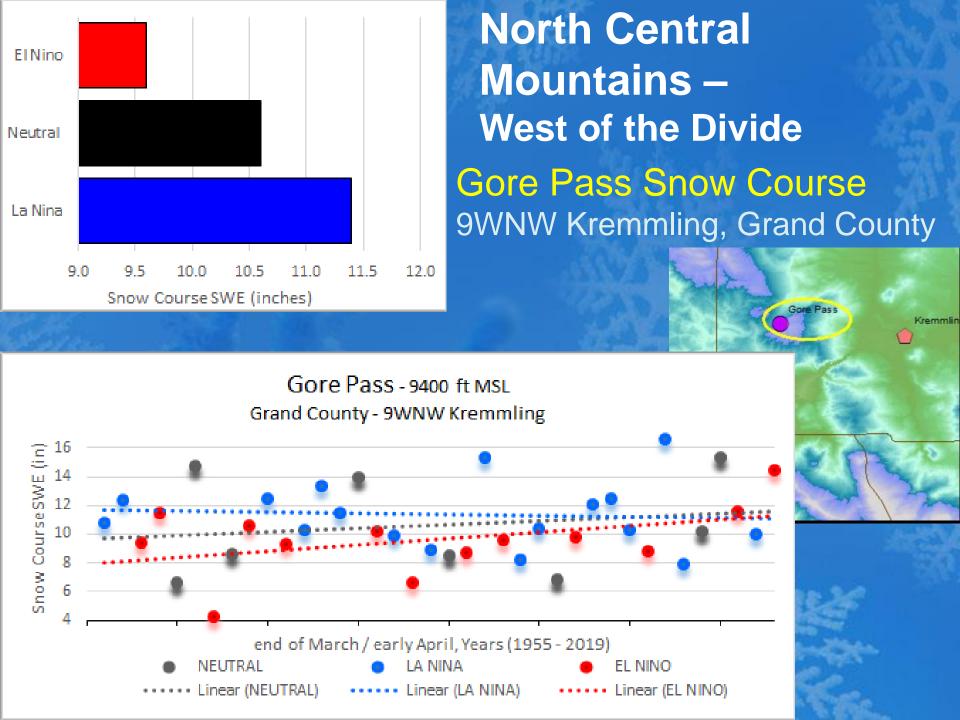


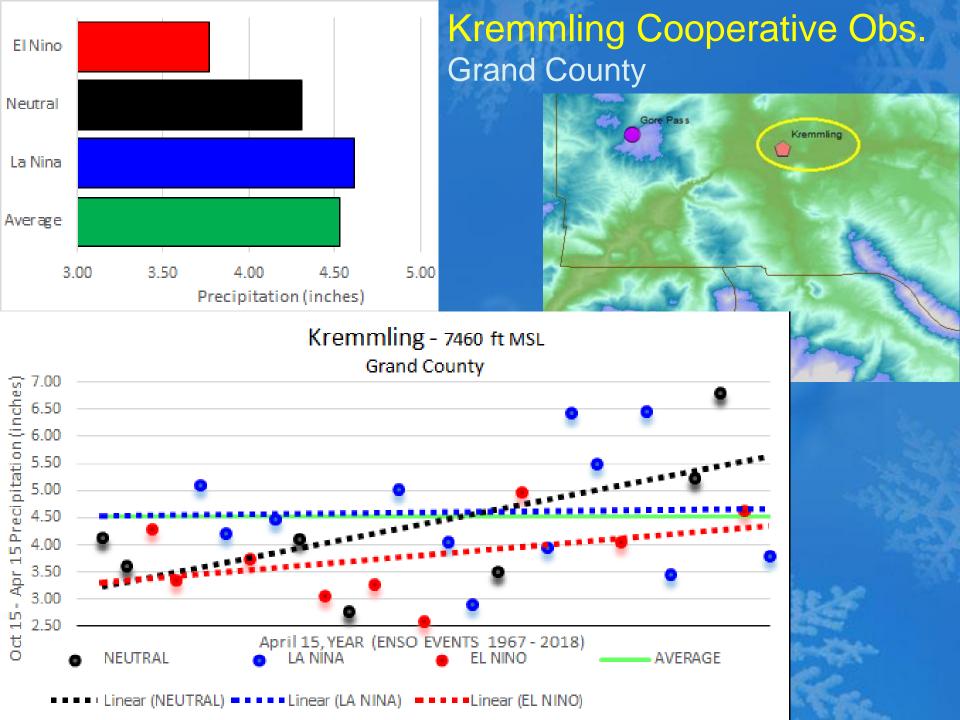


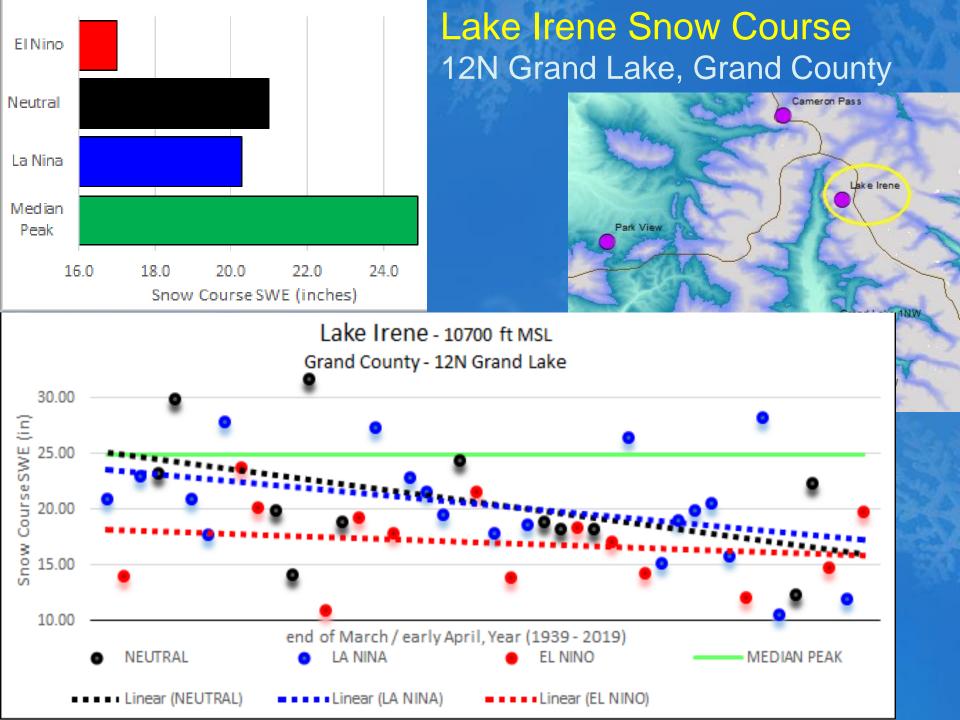


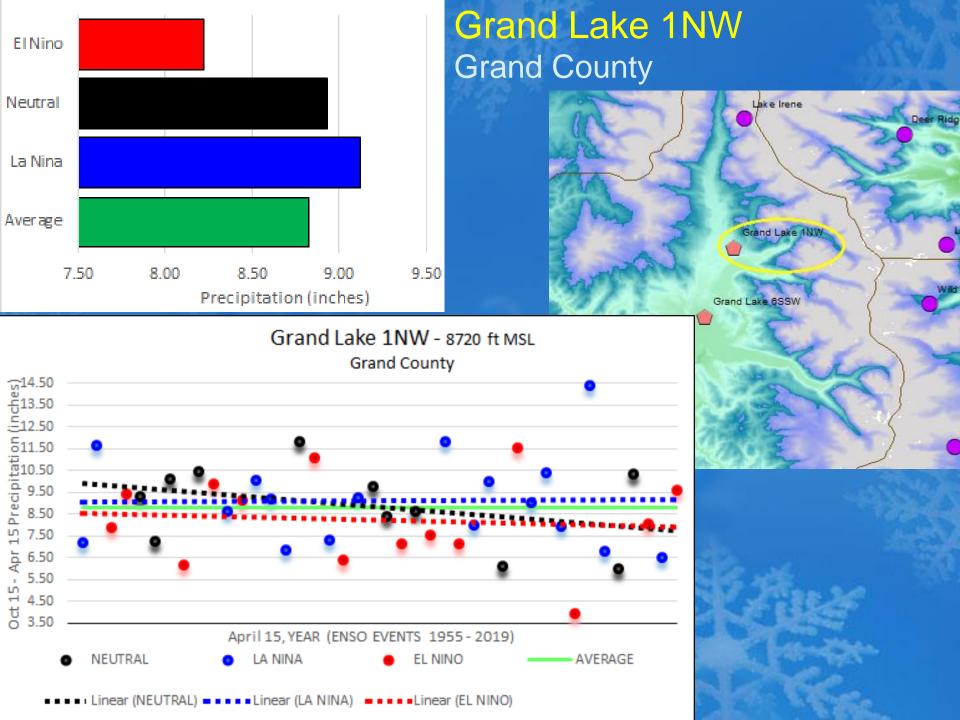


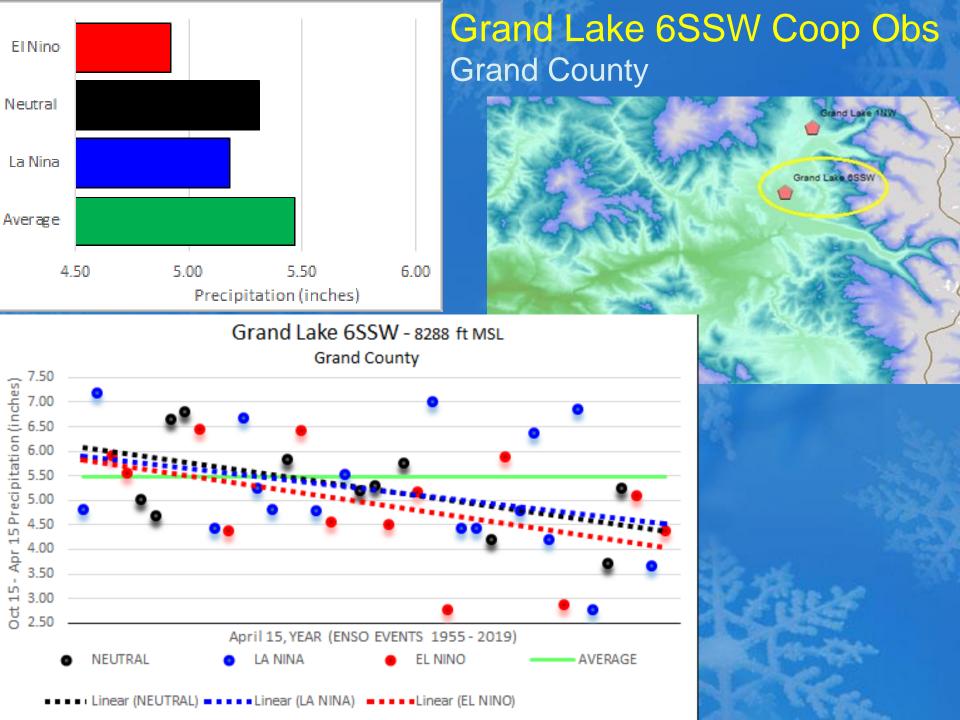


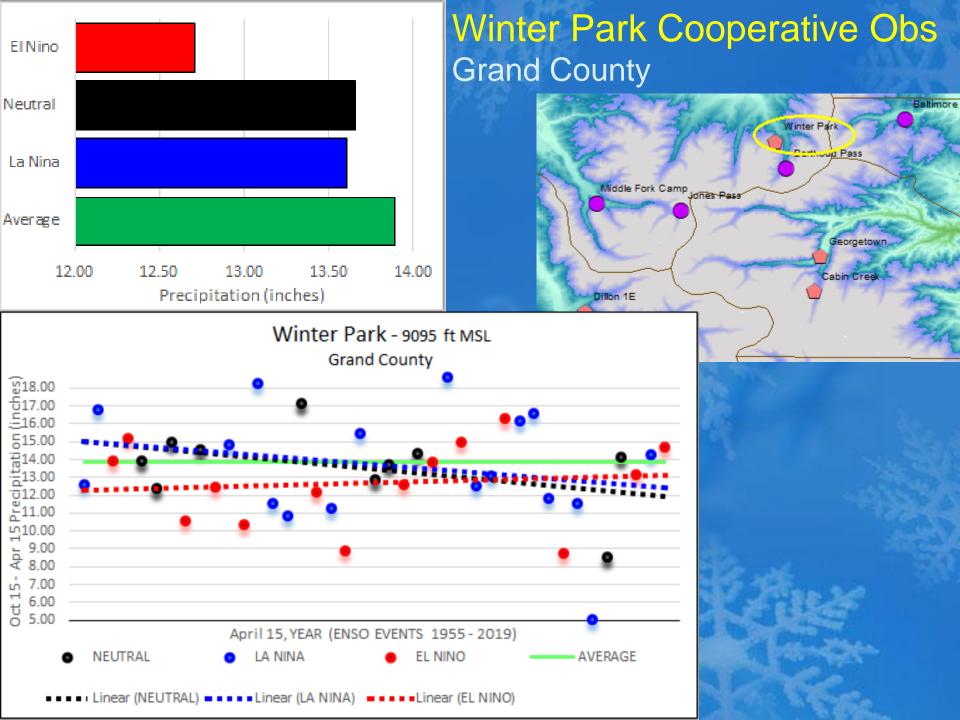


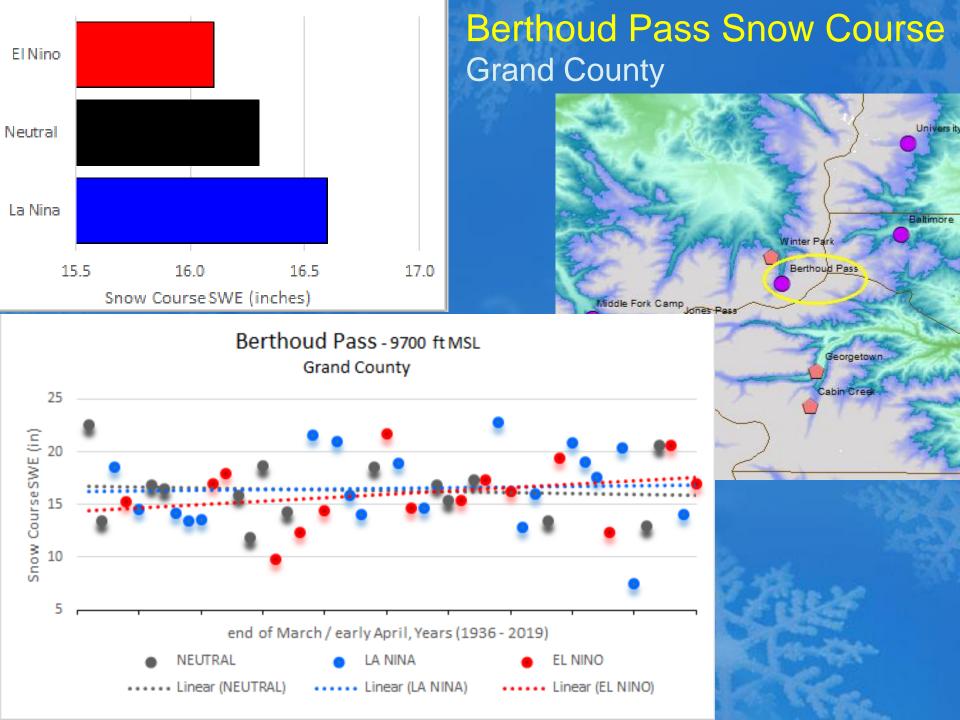


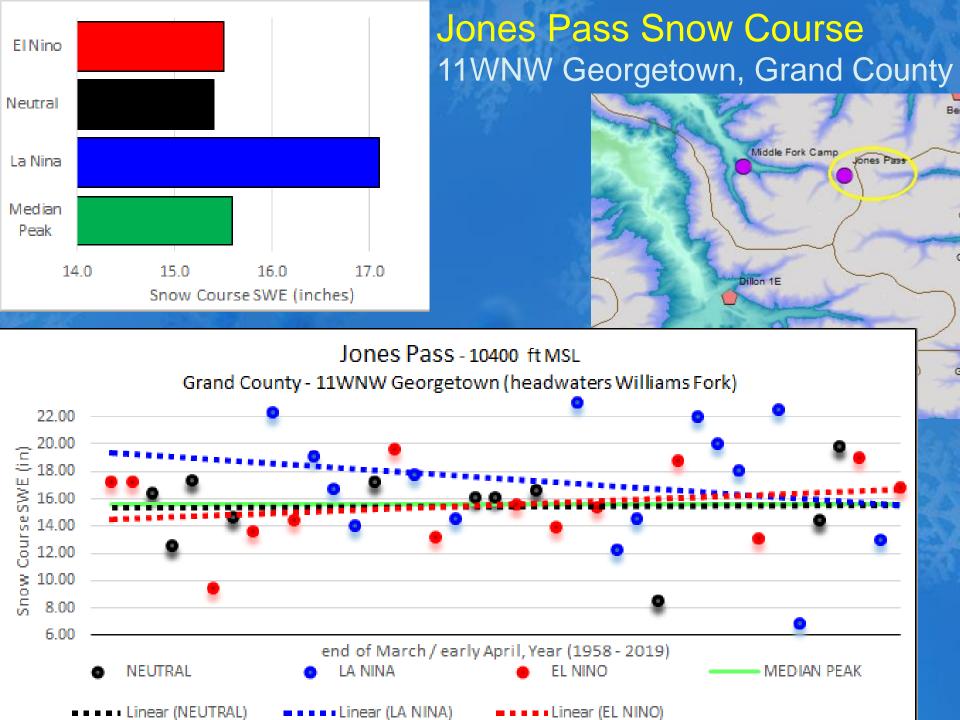


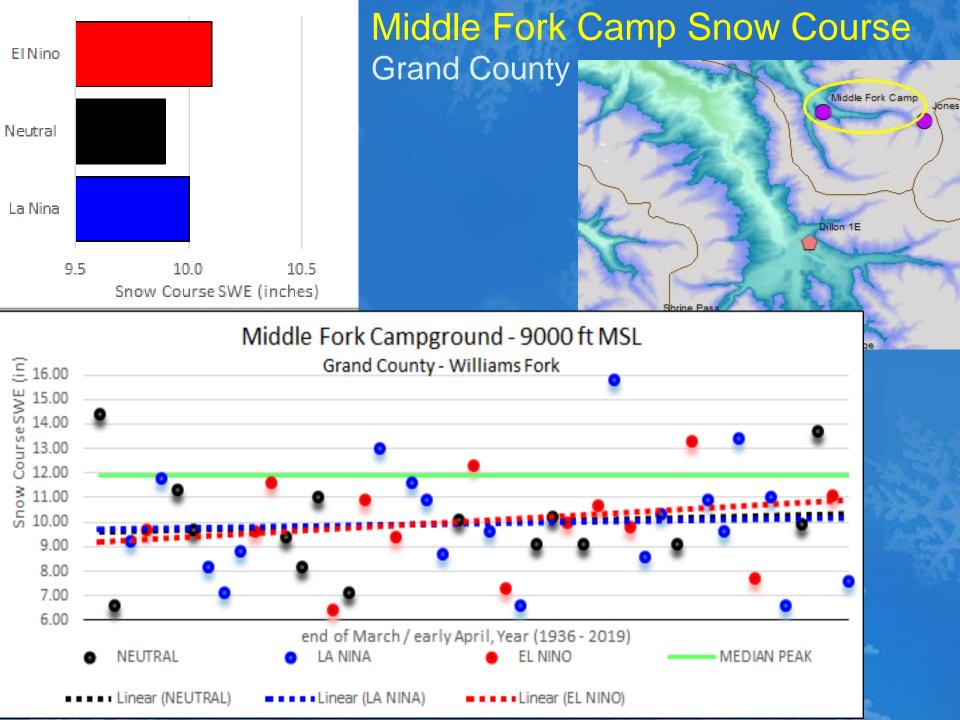


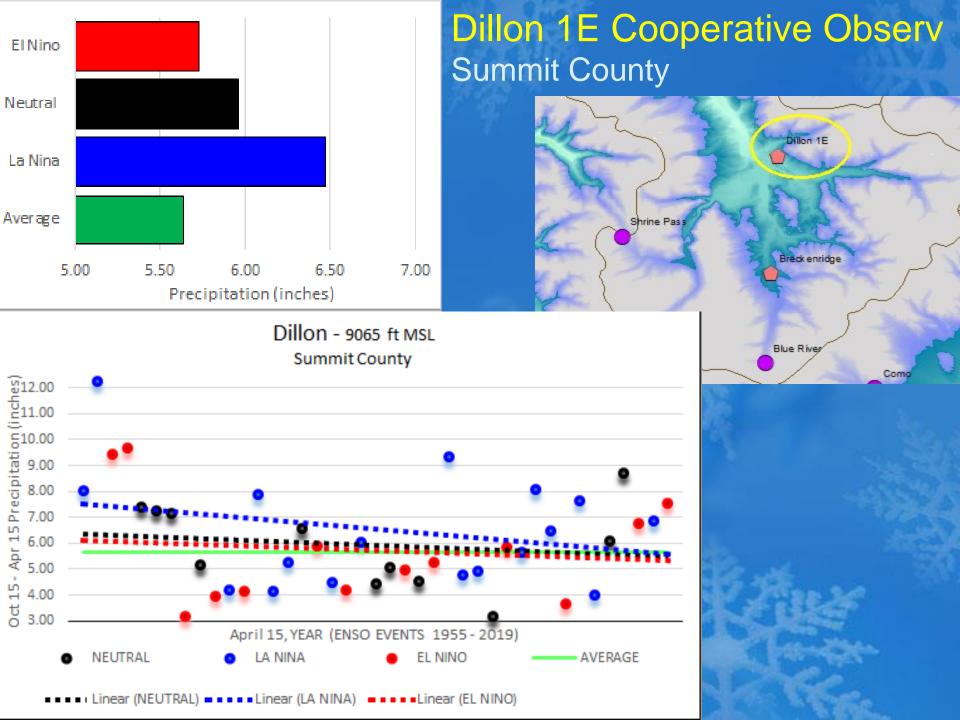


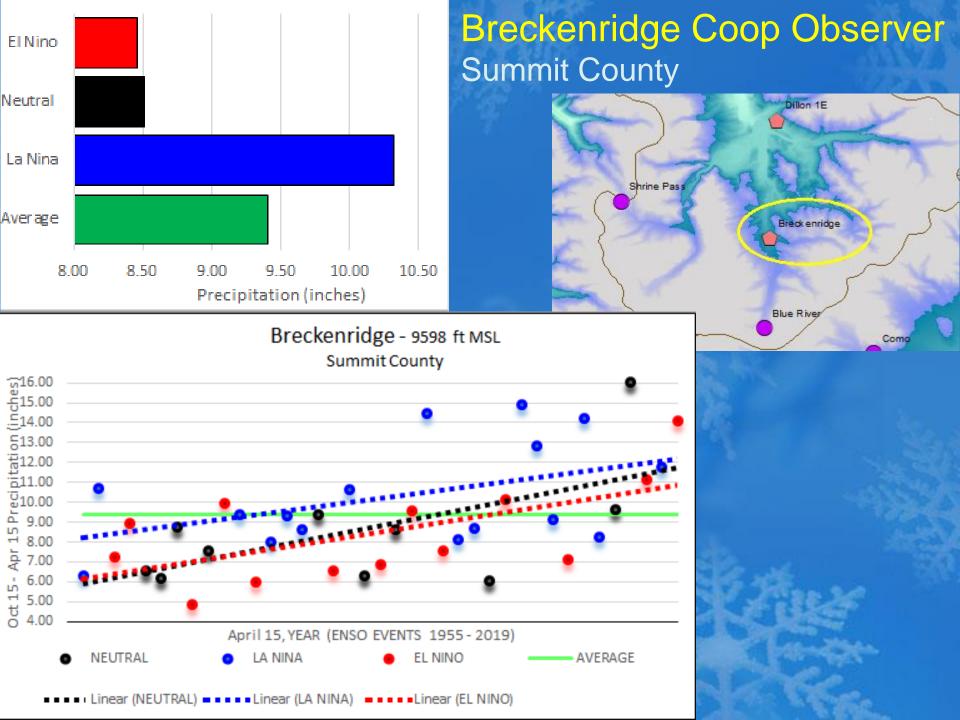


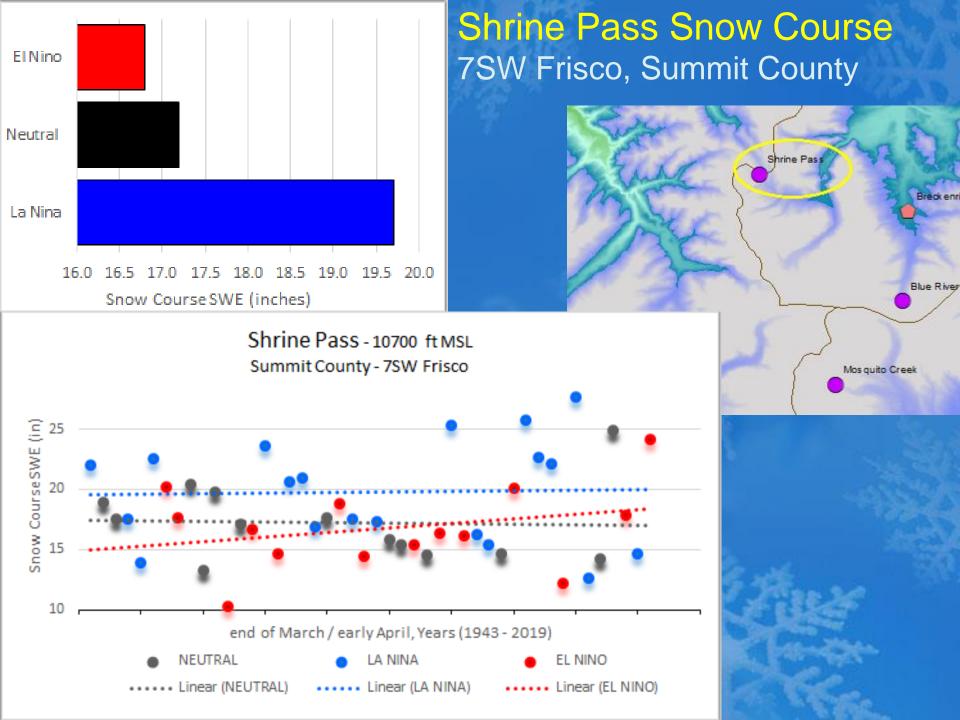


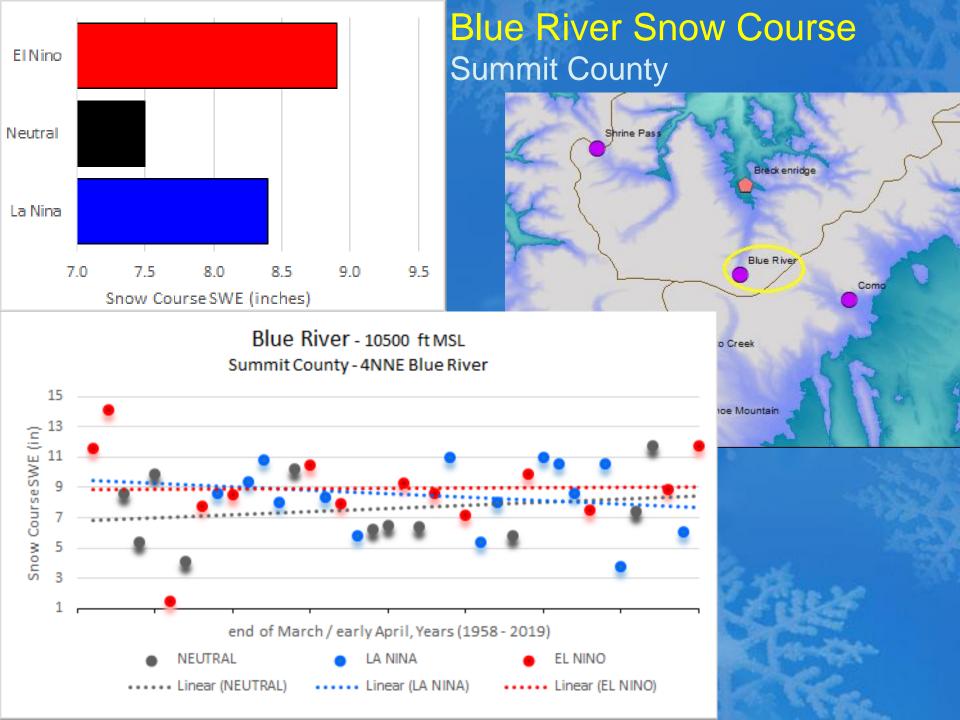


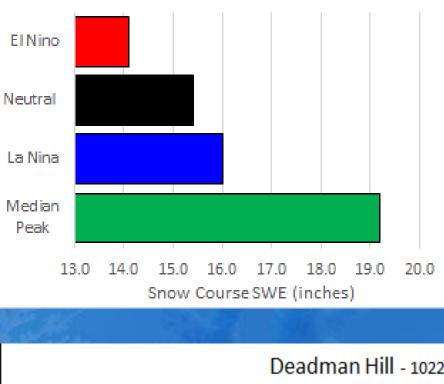






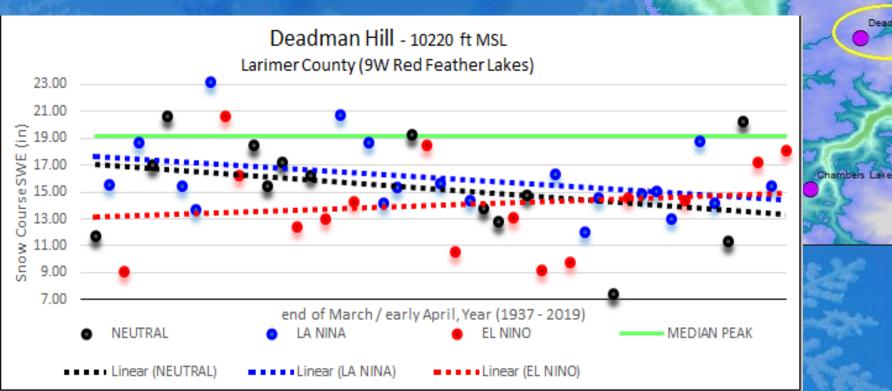


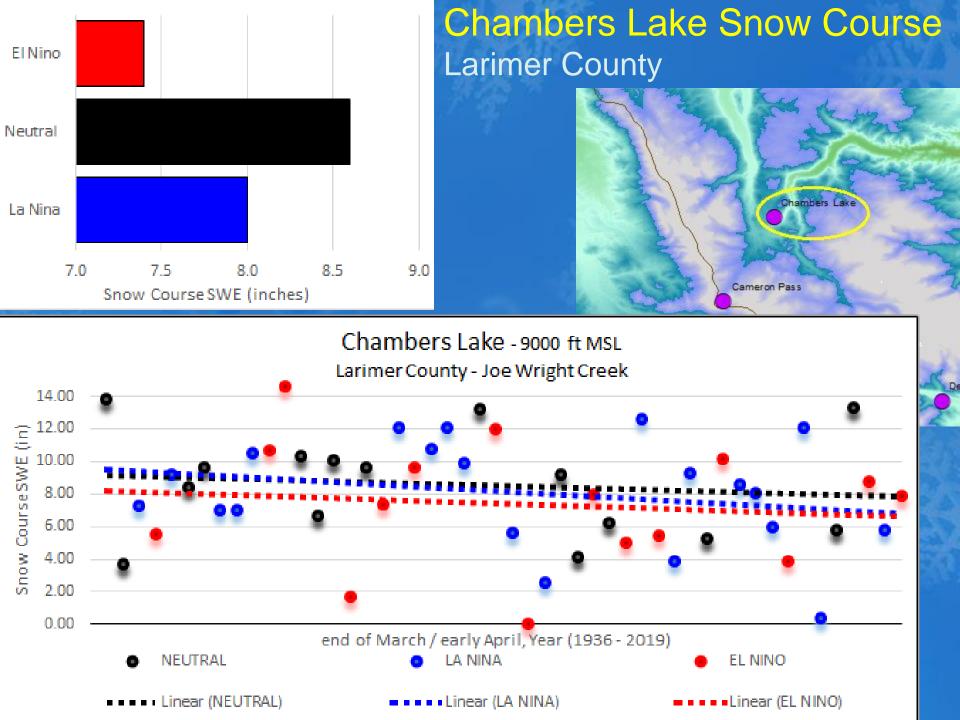


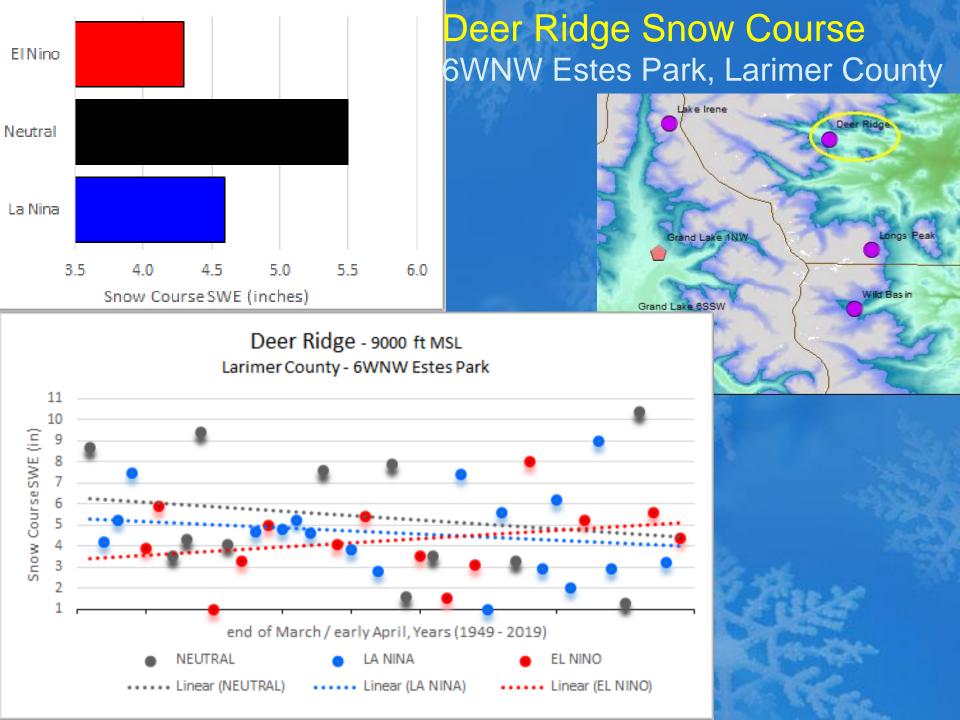


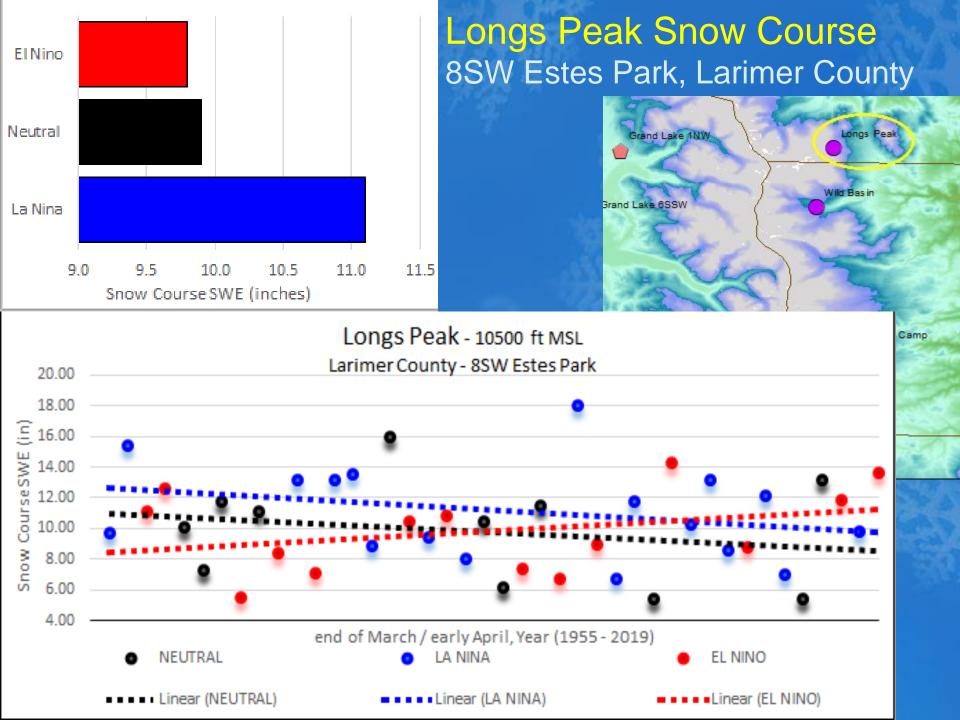
## North Central Mtns – East of the Divide

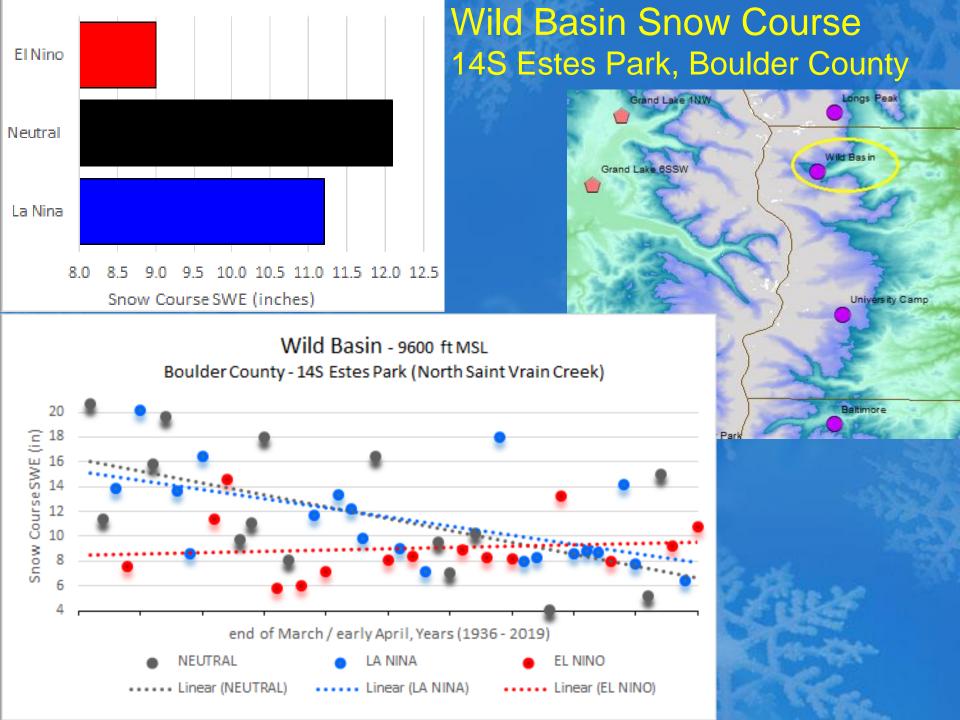
Deadman Hill Snow Course
9W Red Feather Lakes,
Larimer County

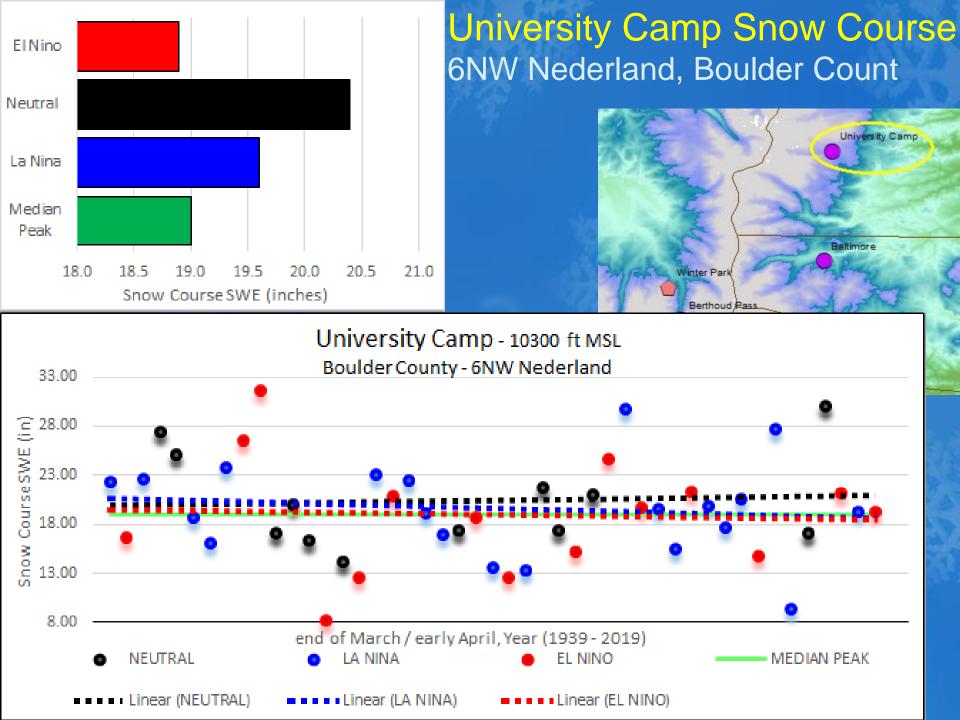


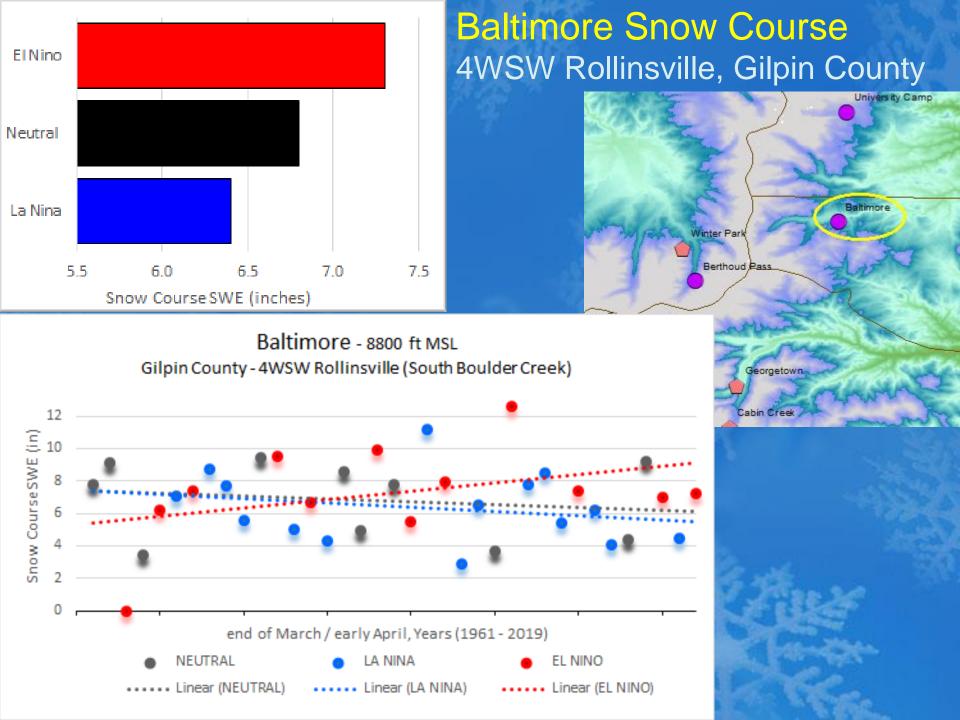


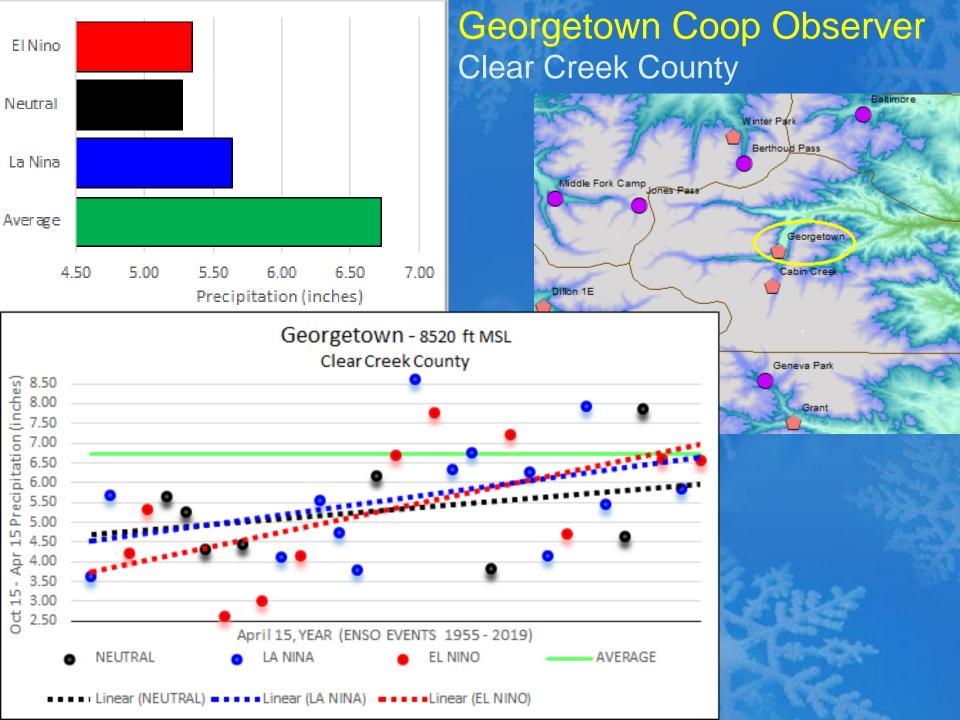


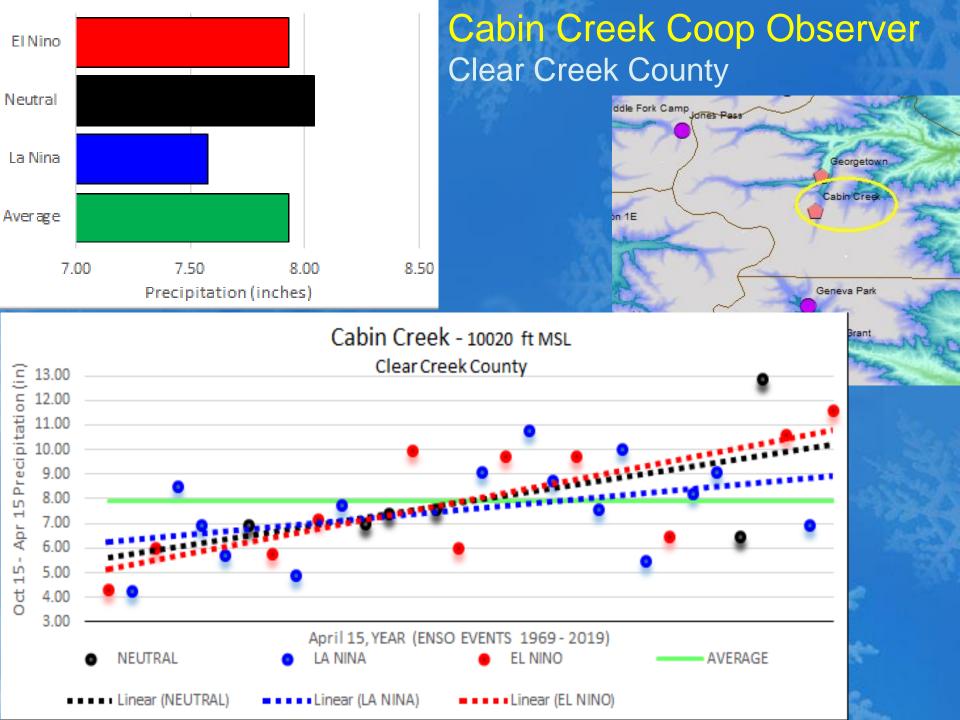


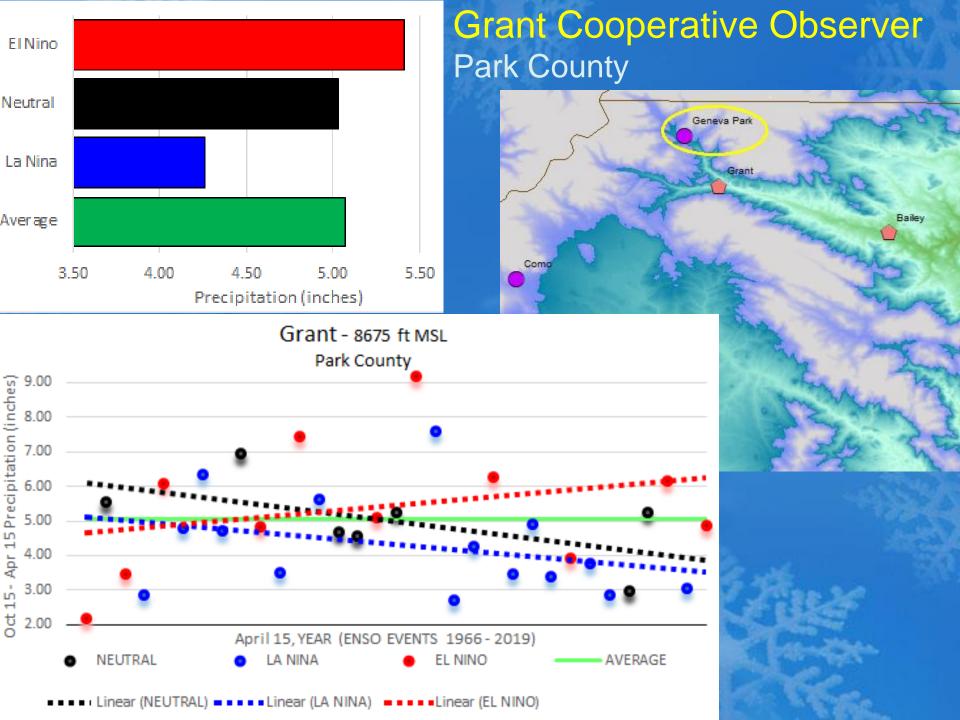


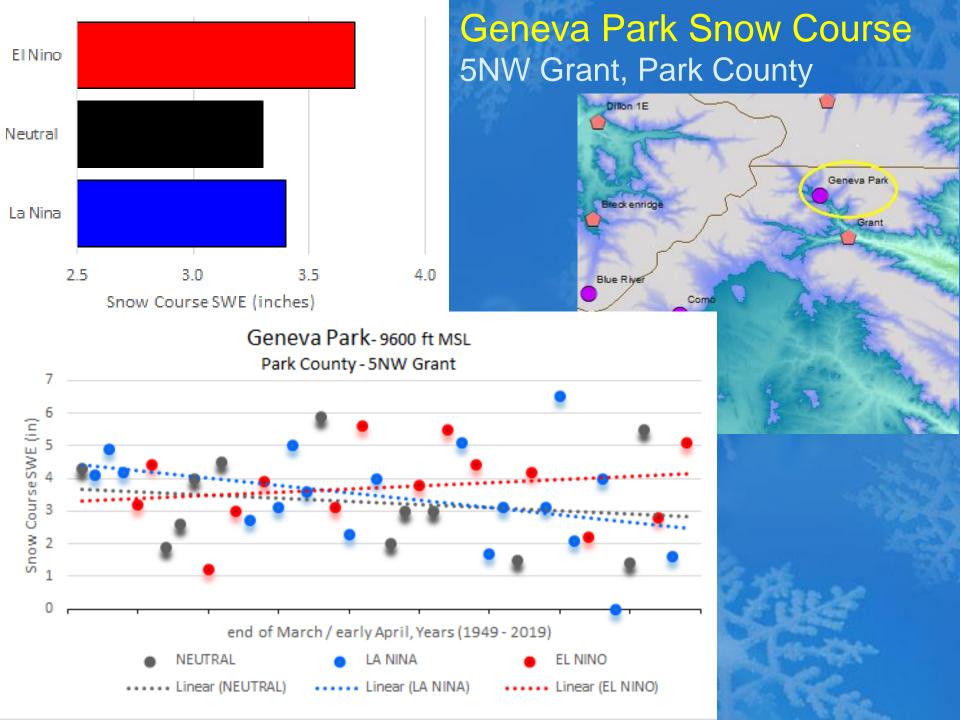


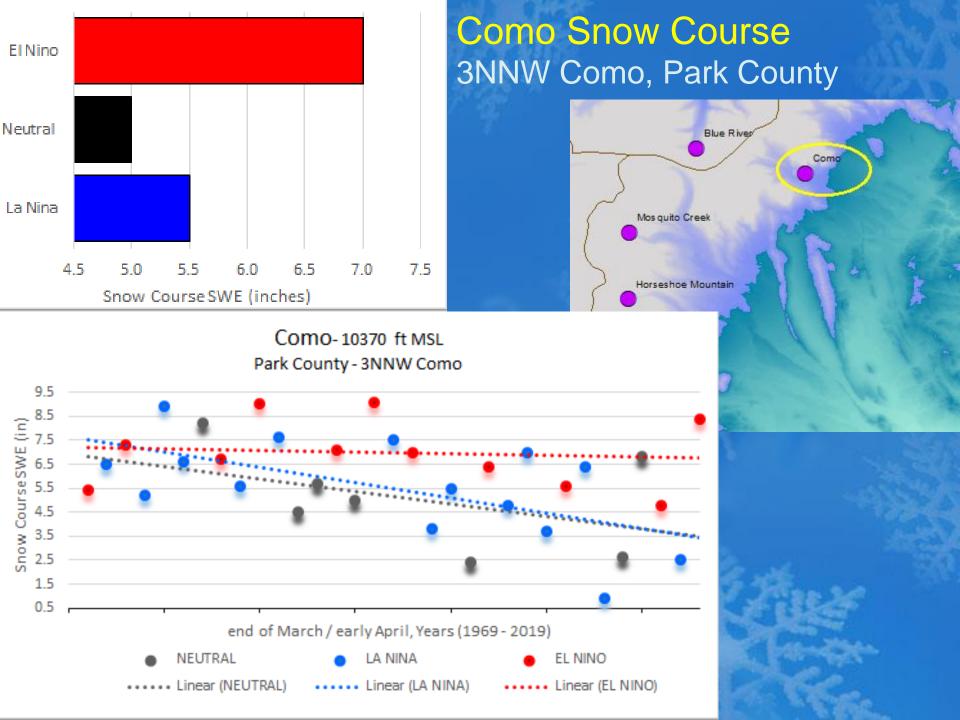


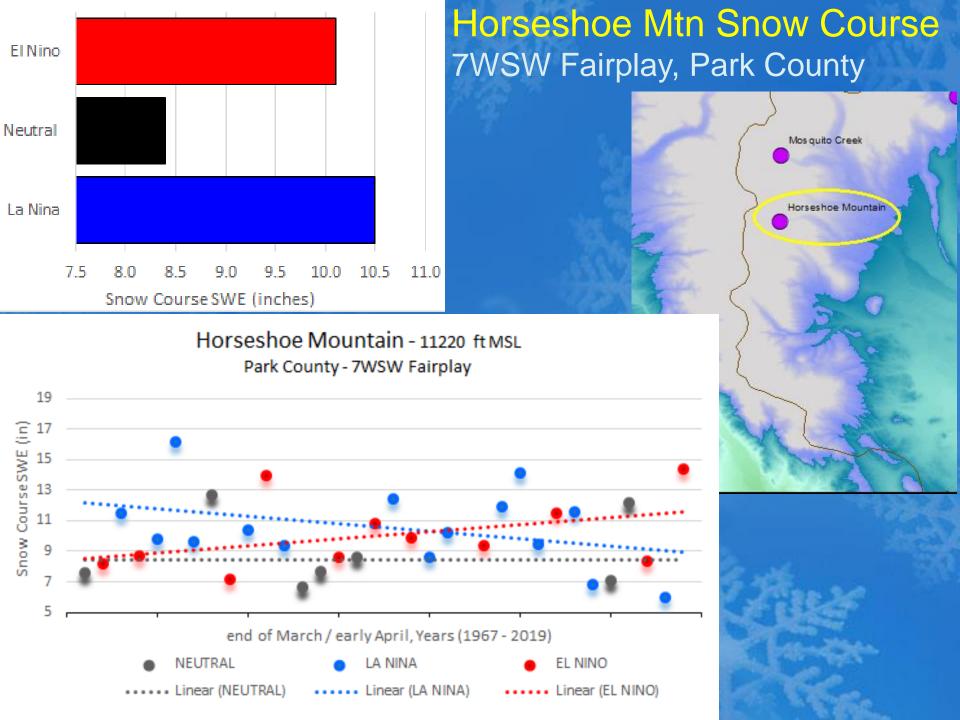


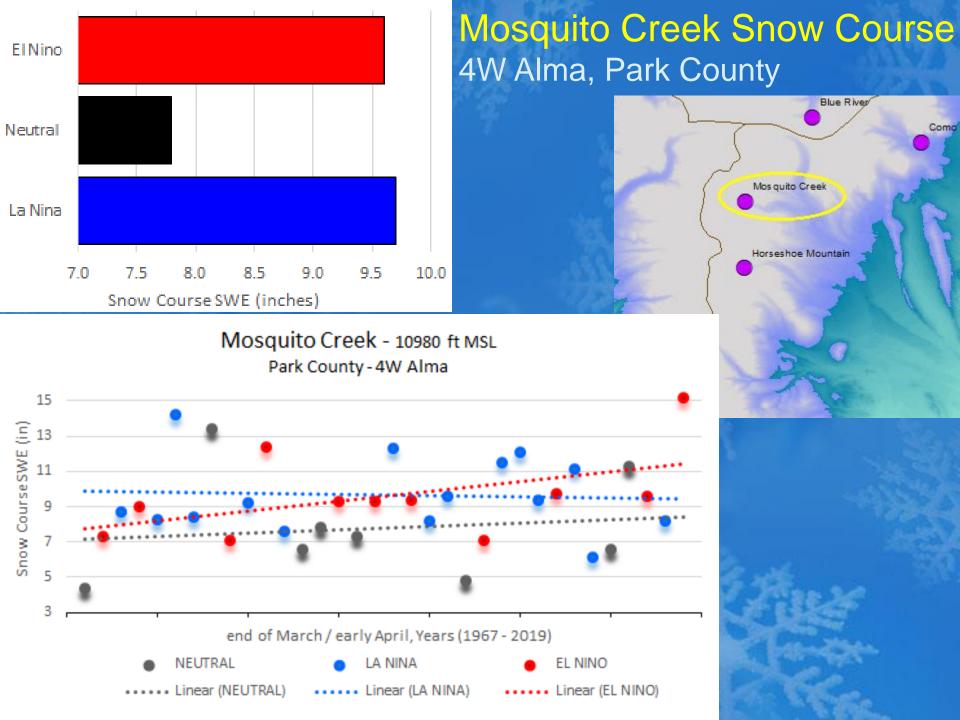


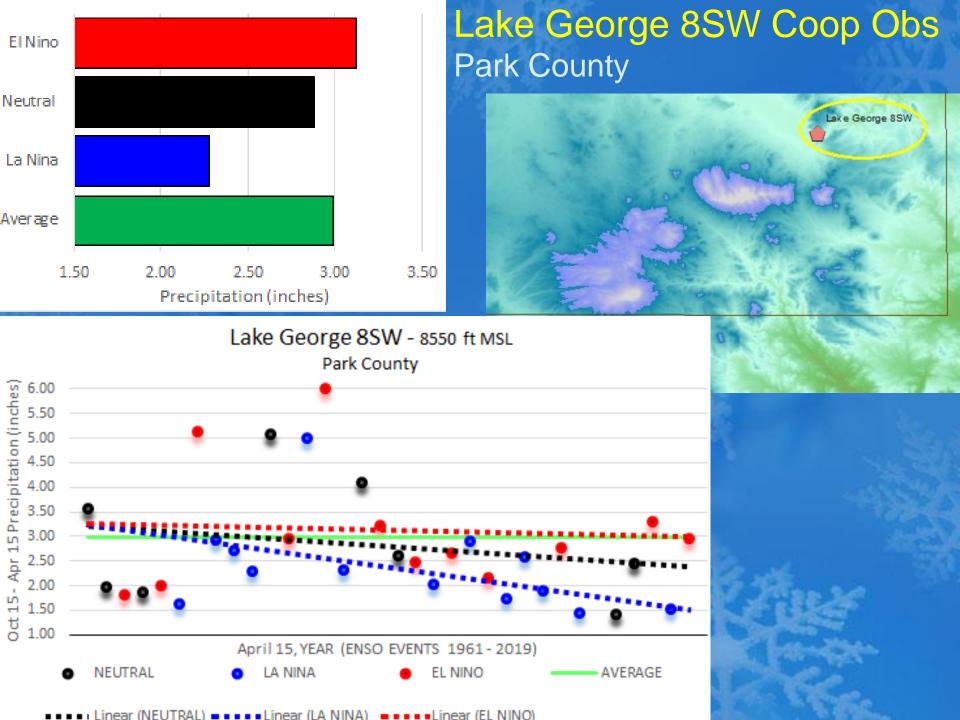


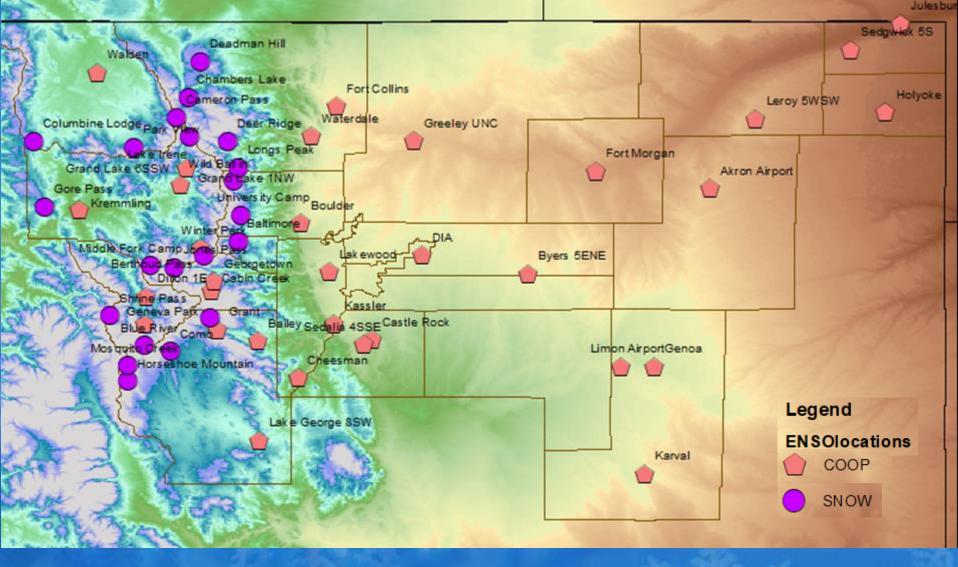




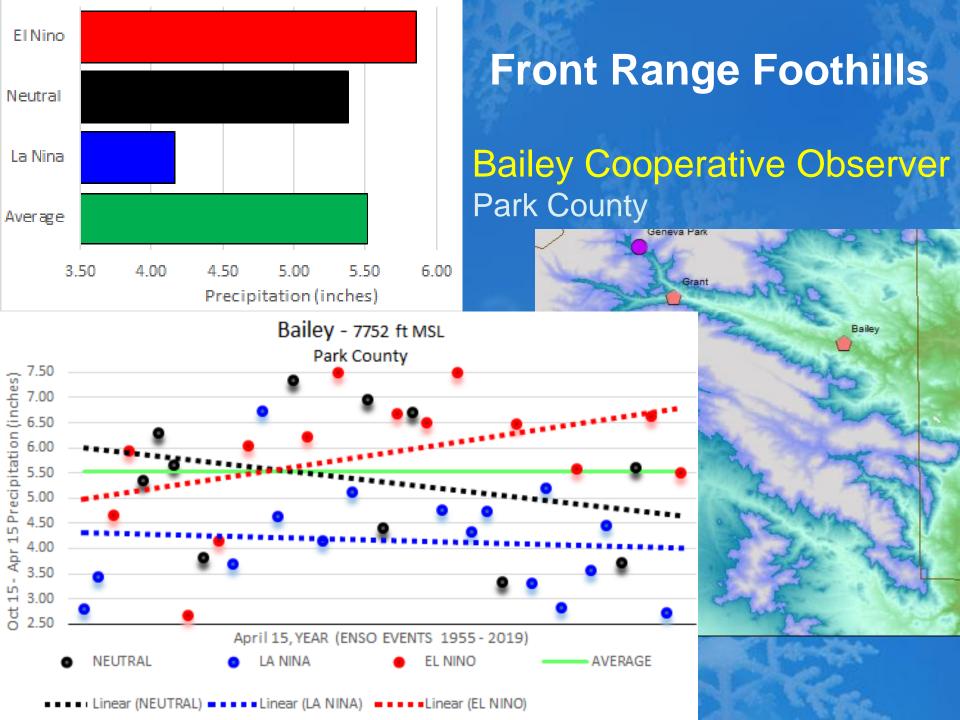


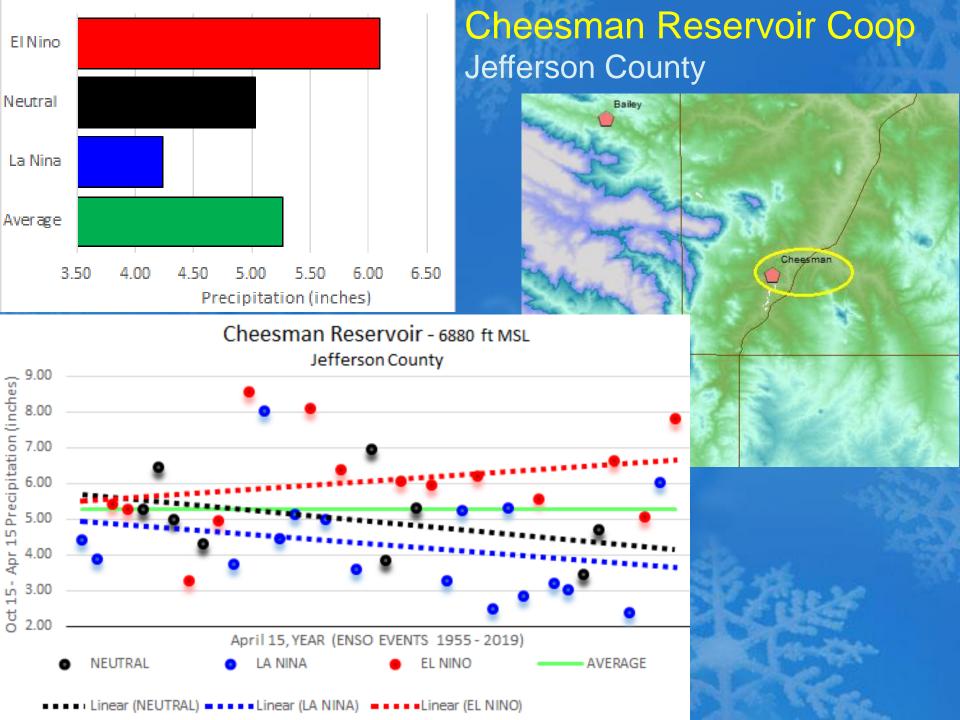


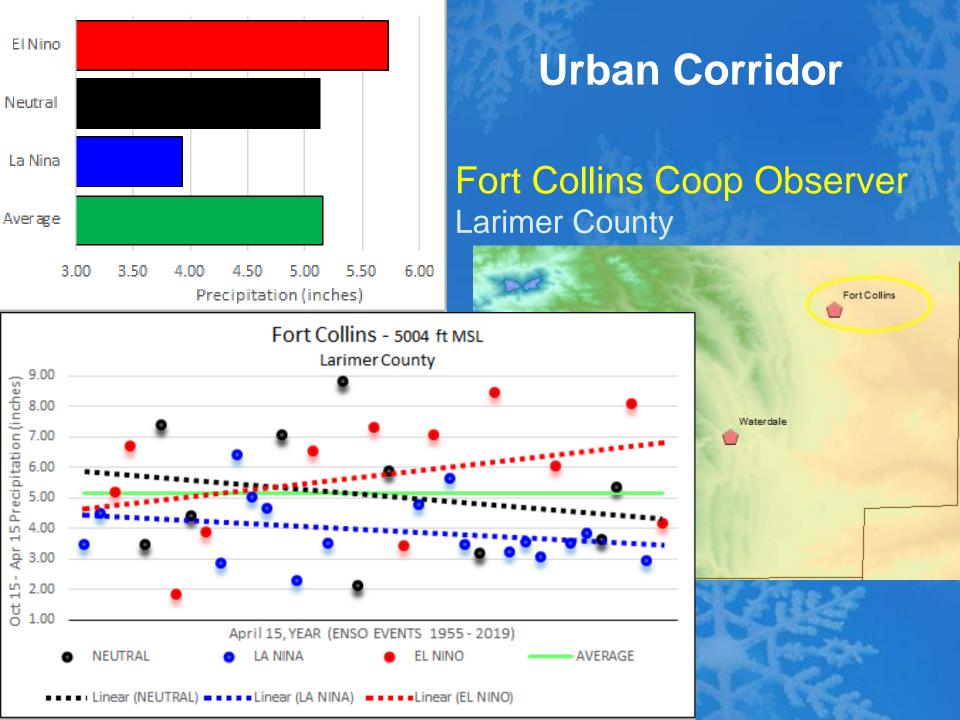


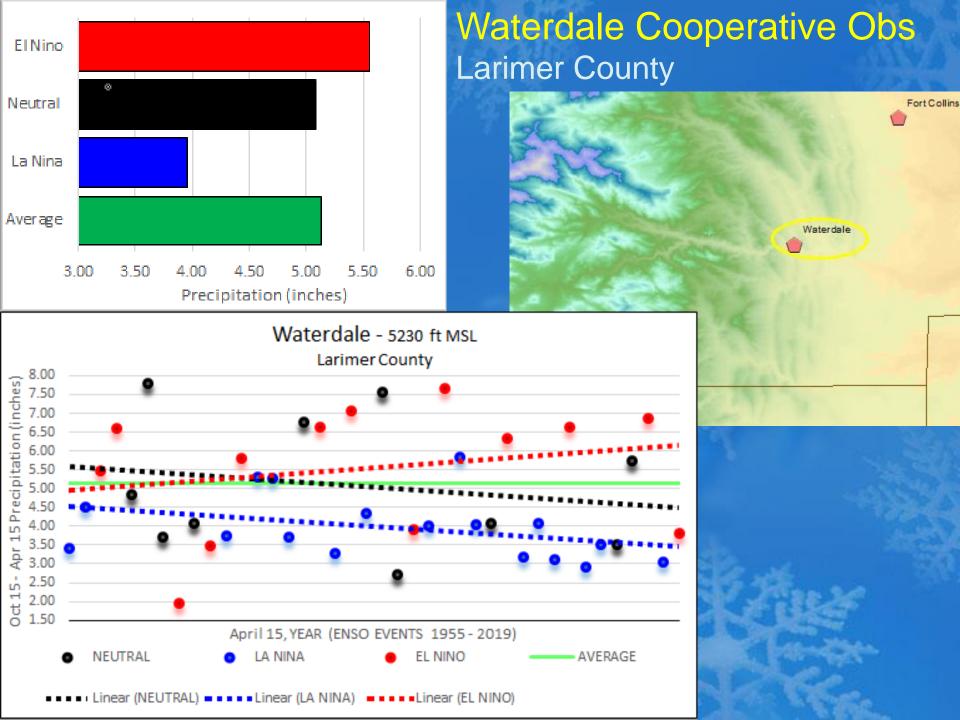


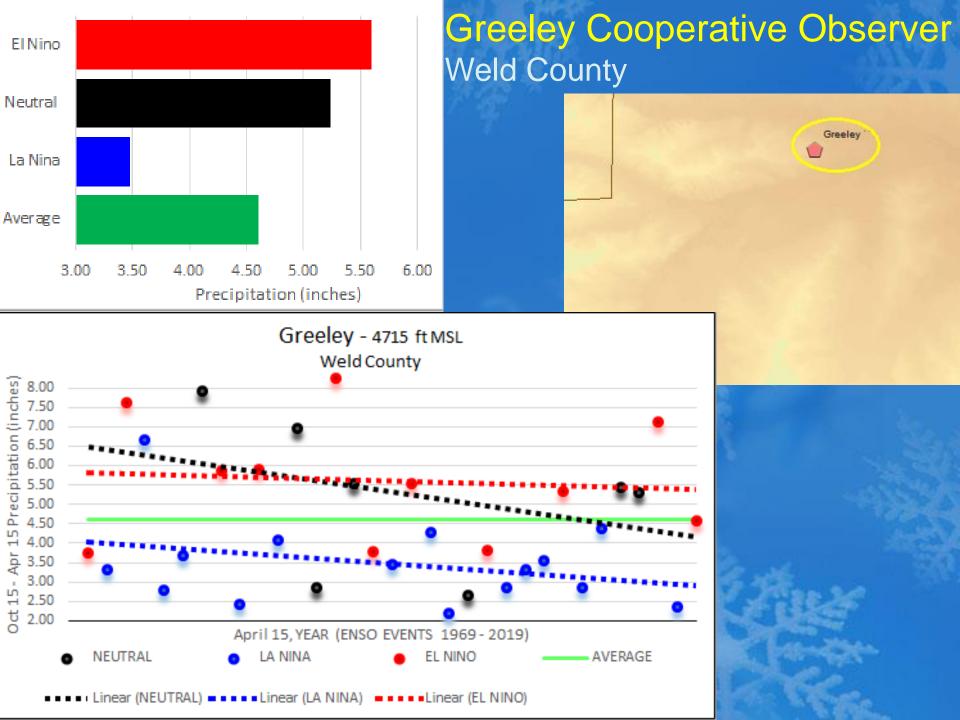
## NWS Cooperative Observer & Airport Precipitation:

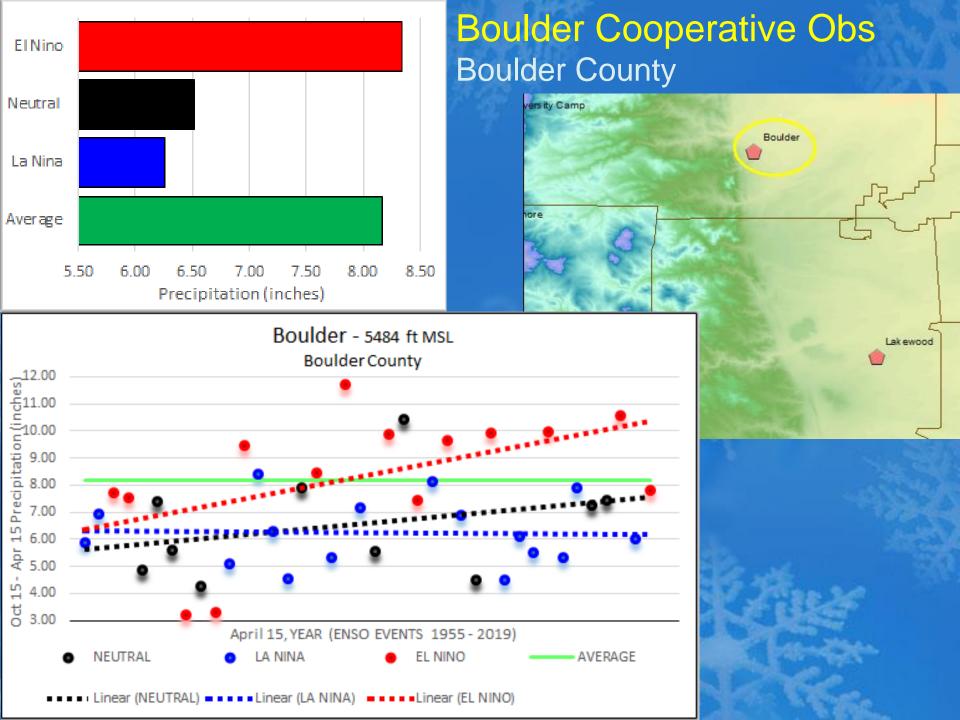


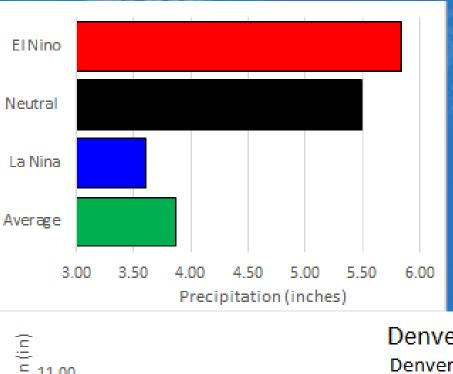












## Denver Area Denver County

