

Appendix A. Figures associated with our 2019-2020 Annual Report.

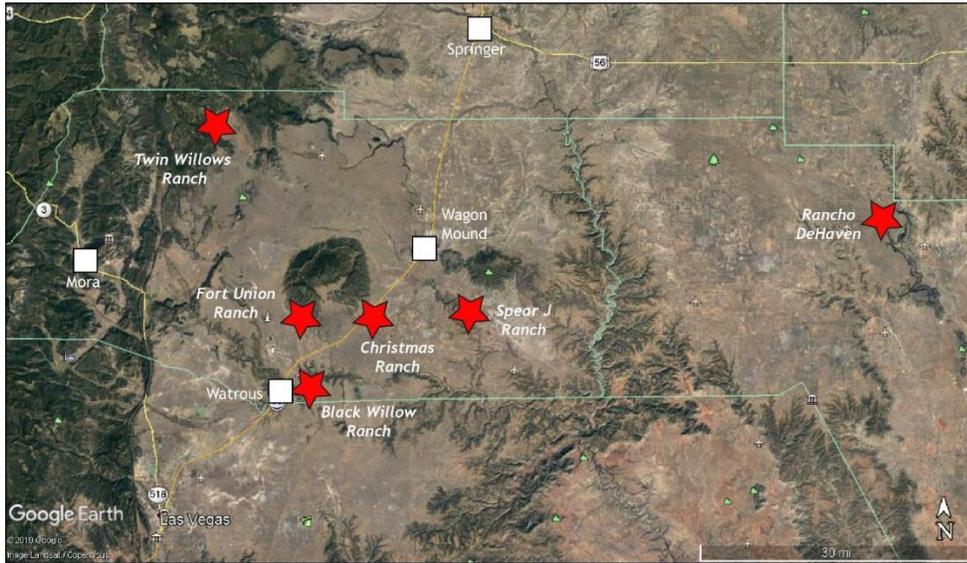


Figure A1. Locations of the six participating ranches in Mora and Harding Counties.

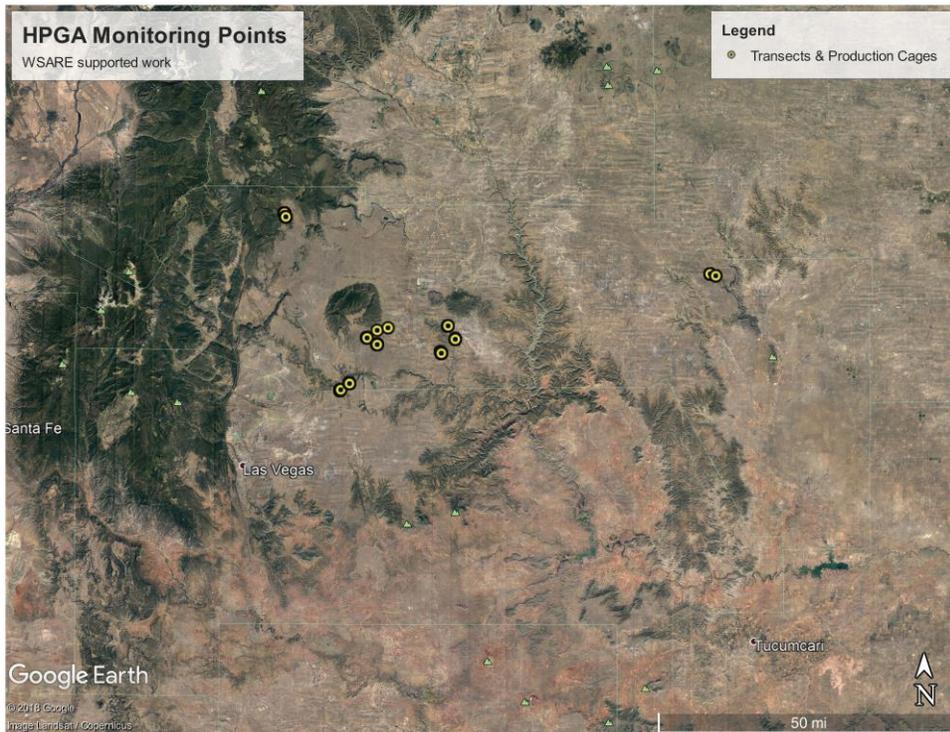


Figure A2. Vegetation and soil monitoring locations for the six participating ranches in Mora and Harding Counties.

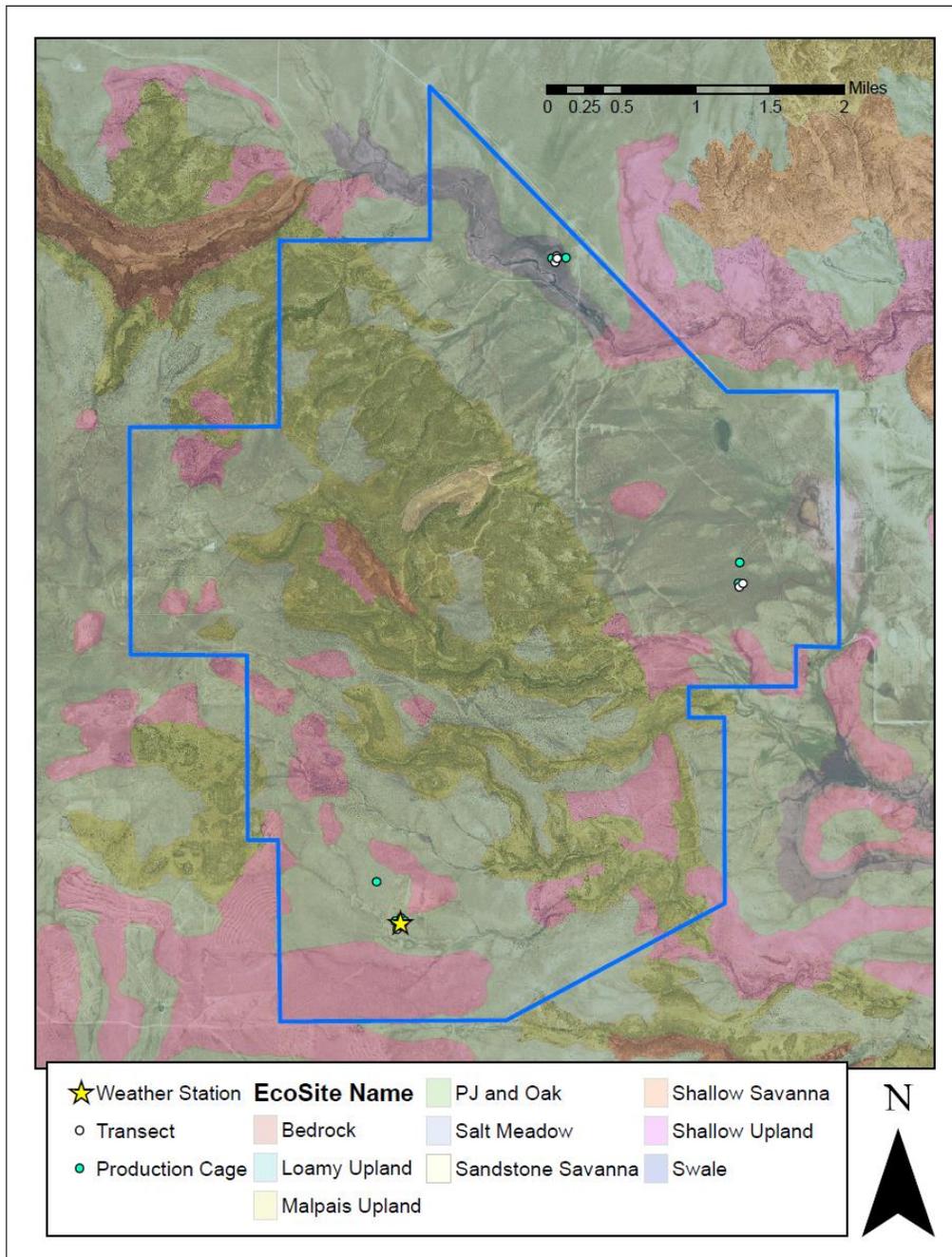


Figure A3. Map of ecological sites for one of the participating producers ranch. This, along with other maps we provided to producers were used in the monitoring location selection process.

Groundwater Example Hydrographs

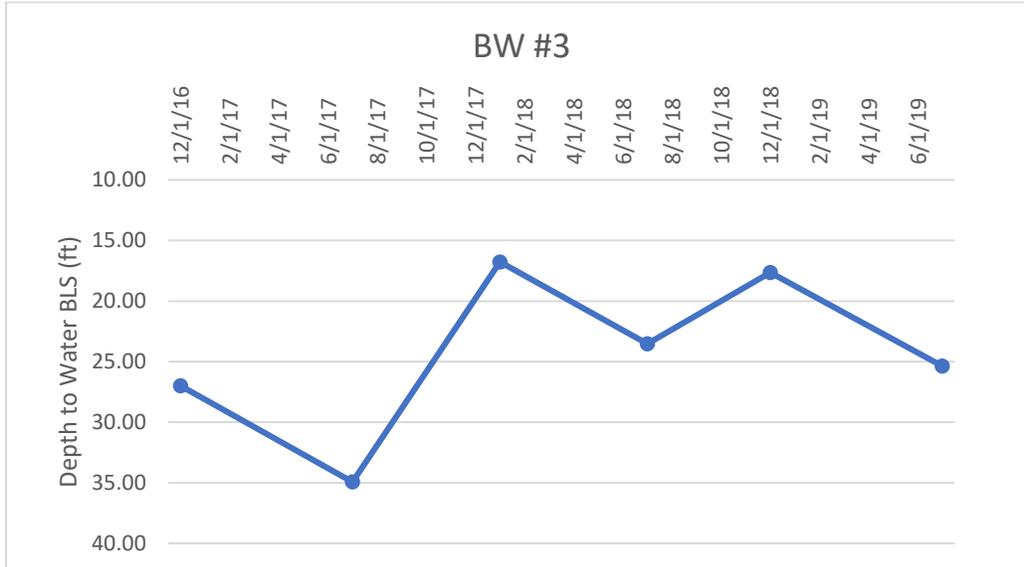


Figure A4. BW#3 is a good example of a well showing a variable water table behavior, suggesting some influence of recharge on the local water table.

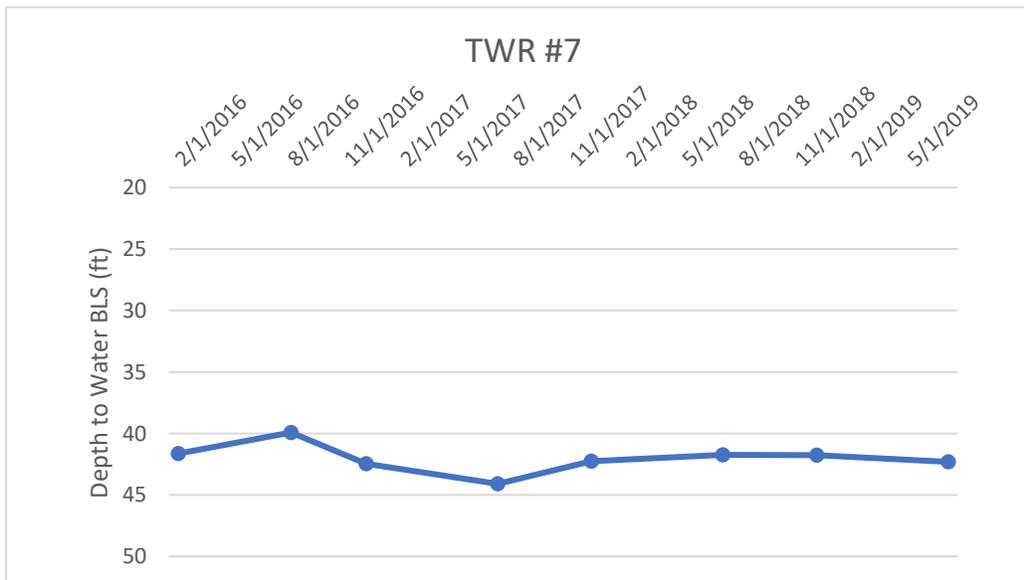


Figure A5. TWR #7 shows a relatively shallow well that has shown a pattern of variable behavior in the past, but now indicates a slow decline.

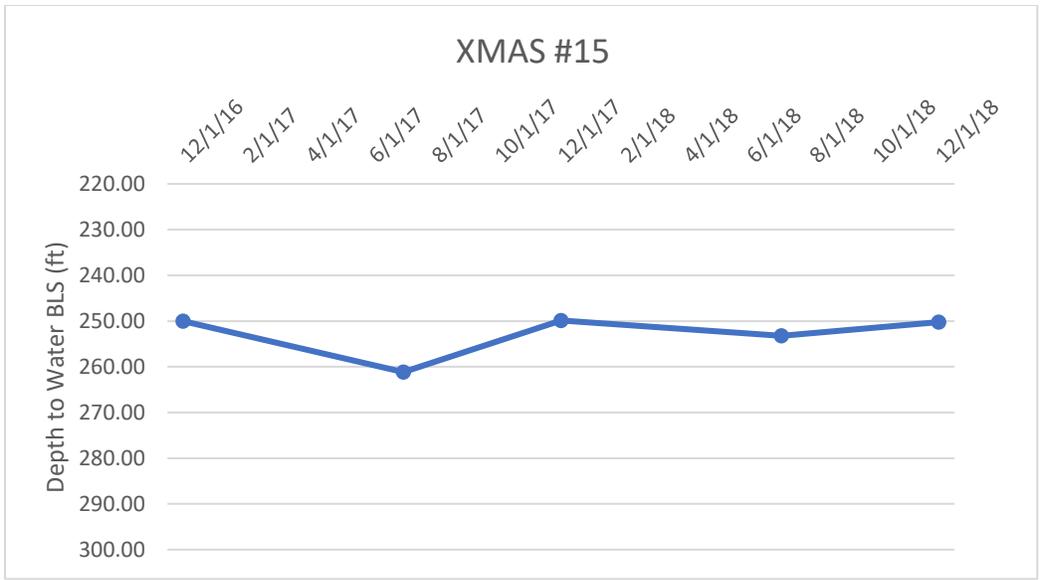


Figure A6. Xmas #15 is a deep well that shows a strong drawdown over the summer and a modest recovery over the winter months. Overall, the water level in this well is slowly declining from winter to winter.

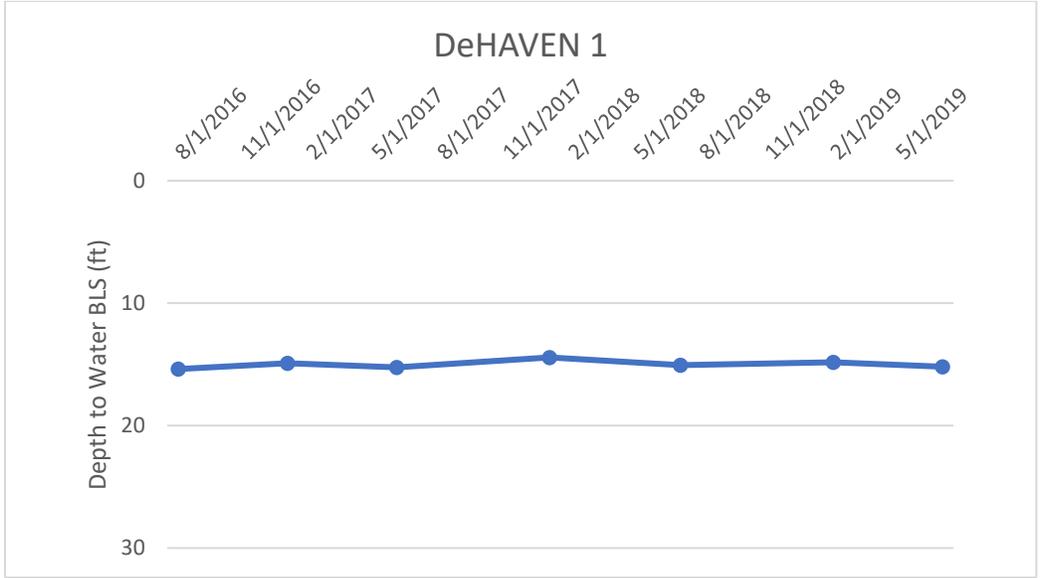


Figure A7. DeHaven #1 is an example of a shallow well that shows little variability in spite of being a shallow water table, suggesting little modern recharge is replenishing the local aquifer system.

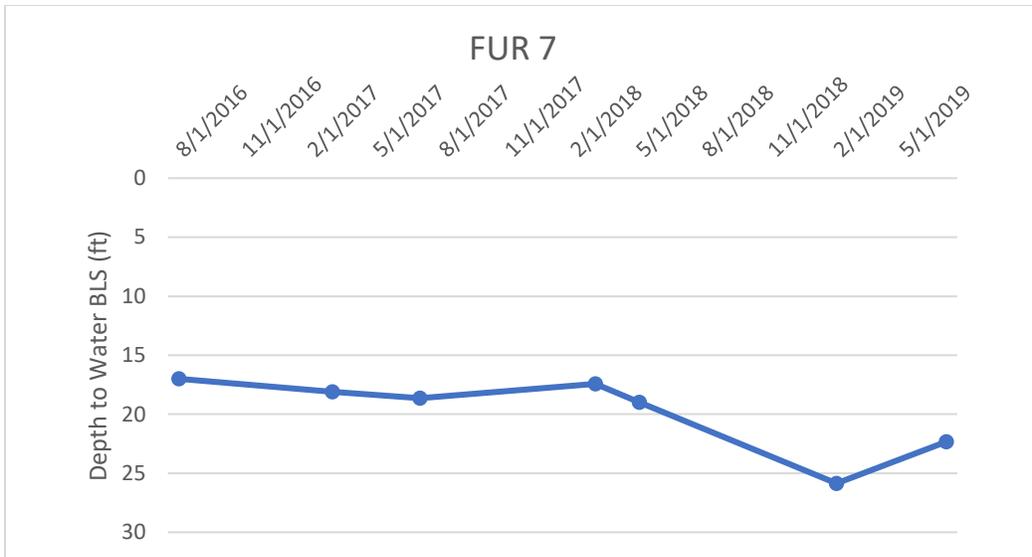


Figure A8. FUR #7 is a shallow well that has shown a precipitous decline in the water table.

Examples of the web-based data portal we have designed based on feedback from the producers associated with this project.

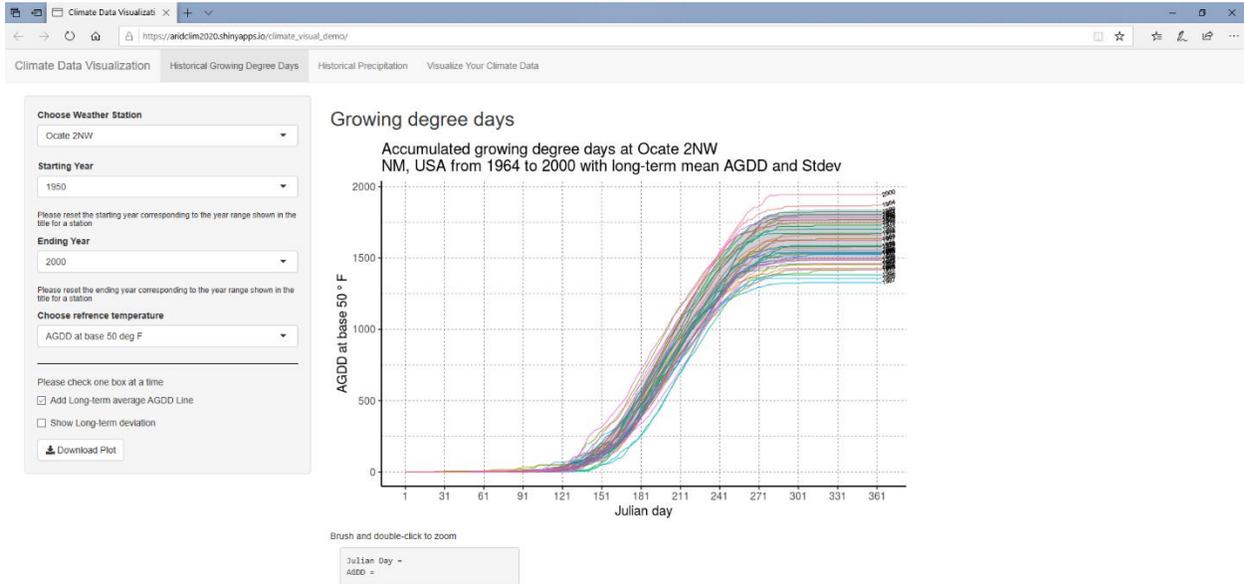


Figure A9. Accumulated growing degree days (base 50) for Ocate 2NW weather station (1950 - 2000).

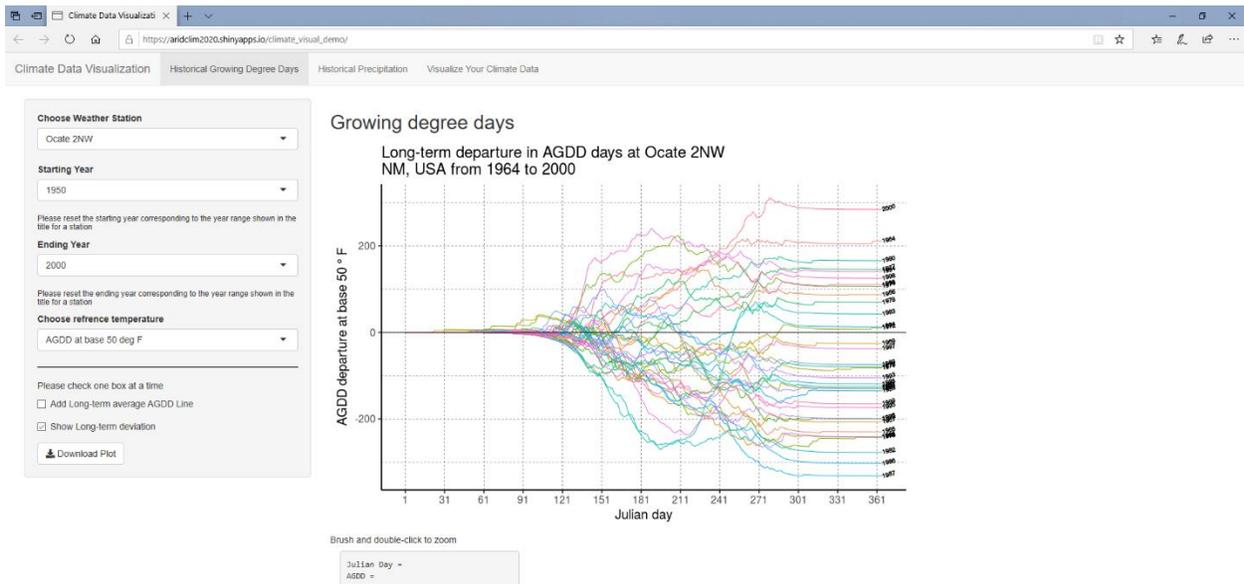


Figure A10. Long term departure in accumulated growing degree days (base 50) for Ocate 2NM weather station. (1950 -2000)

Choose File type
 .csv/txt .xlsx

Upload Items List
 Browse... testdate2.csv
 Upload complete

Display data
 Head
 All

Please check one box at a time

Show plots
 Temperature
 Precipitation
 GDD50F
 GDD32F

Your climate summary

County	Station	Max	Min	Precip	Snwfl	Snwdp	Date
Mora	Valmora	58	17	0.00	0.00	0	1/1/2014
Mora	Valmora	58	16	0.00	0.00	0	1/2/2014
Mora	Valmora	52	21	0.00	0.00	0	1/3/2014
Mora	Valmora	60	18	0.00	0.00	0	1/4/2014
Mora	Valmora	55	3	0.00	0.00	0	1/5/2014
Mora	Valmora	36	8	0.00	0.00	0	1/6/2014

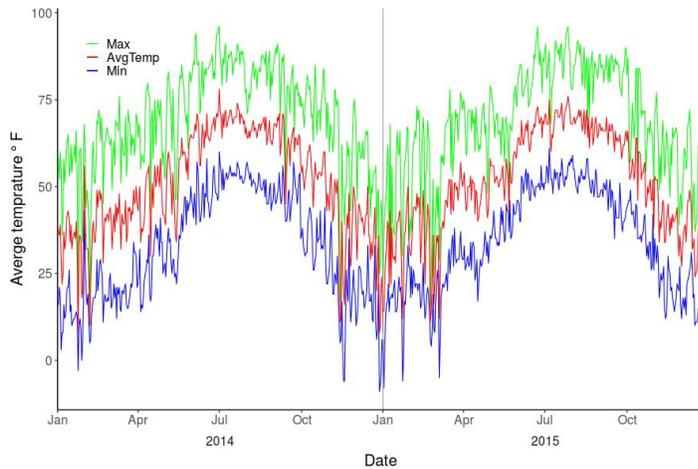


Figure A11. Example of output when producers upload their own data (average temperature).

Choose File type
 .csv/txt .xlsx

Upload Items List
 Browse... testdate2.csv
 Upload complete

Display data
 Head
 All

Please check one box at a time

Show plots
 Temperature
 Precipitation
 GDD50F
 GDD32F

Your climate summary

County	Station	Max	Min	Precip	Snwfl	Snwdp	Date
Mora	Valmora	58	17	0.00	0.00	0	1/1/2014
Mora	Valmora	58	16	0.00	0.00	0	1/2/2014
Mora	Valmora	52	21	0.00	0.00	0	1/3/2014
Mora	Valmora	60	18	0.00	0.00	0	1/4/2014
Mora	Valmora	55	3	0.00	0.00	0	1/5/2014
Mora	Valmora	36	8	0.00	0.00	0	1/6/2014

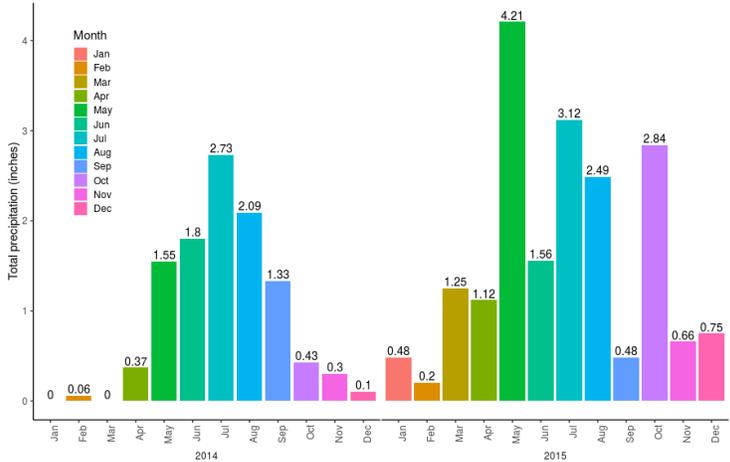


Figure A12. Example of output when producers upload their own data (precipitation in inches).