

Appendix A: Current Water Quality Conditions

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Current Water Quality Condition

This appendix examines current temperature conditions in the Umpqua, North Umpqua and South Umpqua River Basins within the geographic scope of the TMDL project.

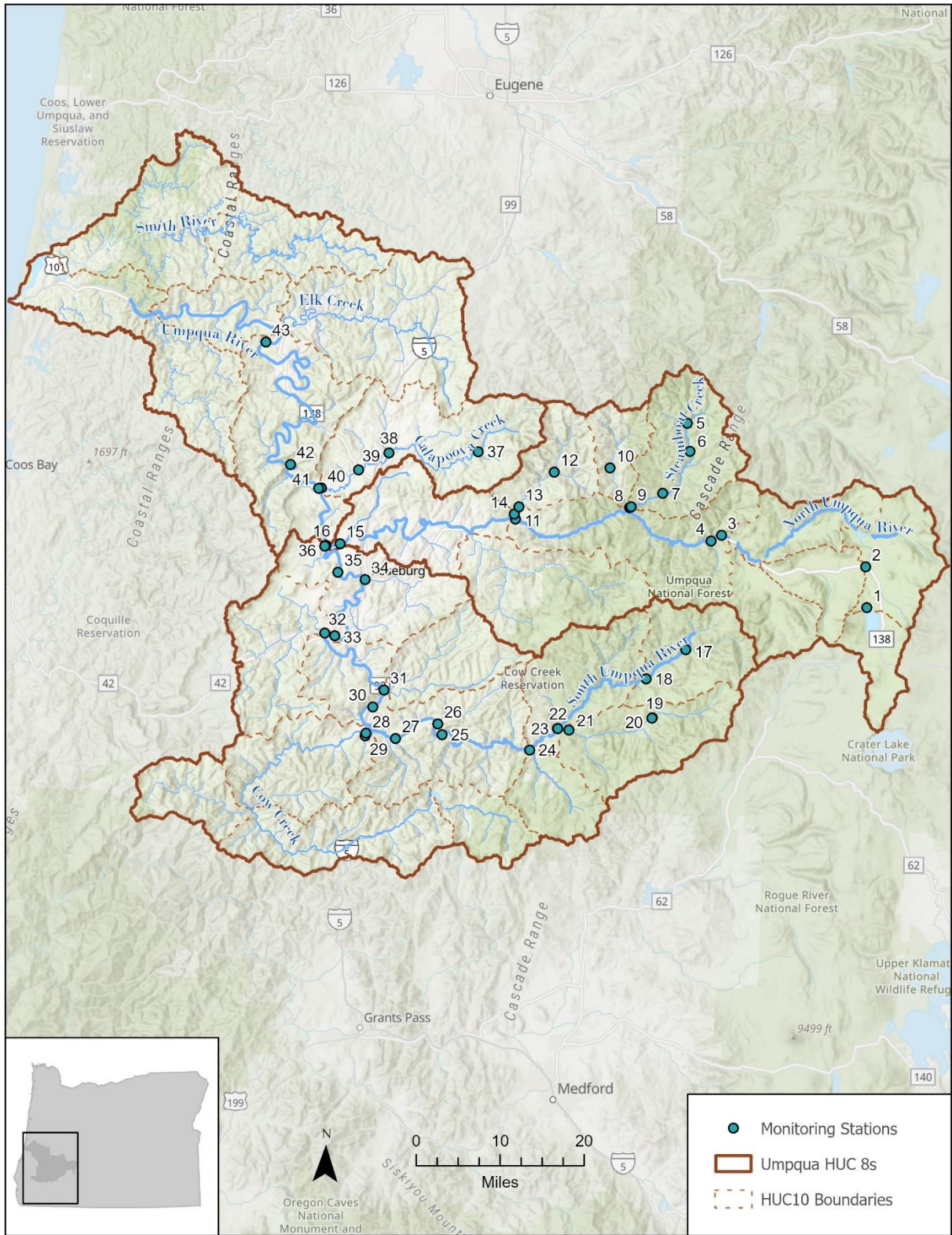


Figure 1 Monitoring locations selected to represent the current conditions in the South Umpqua, North Umpqua, and Umpqua River basins, station names in table 1 below.

Table 1 Map monitoring station number and official station name.

Map Monitoring Station Number	Station Name
1	UmpNF-052
2	USGS-14316460
3	USGS-14316500
4	UmpNF-082
5	UmpNF-004
6	UmpNF-080
7	UmpNF-079
8	UmpNF-016
9	USGS-14317450
10	USGS-14317500
11	23874-ORDEQ
12	USGS-14317600
13	32477-ORDEQ
14	USGS-14318000
15	41104-ORDEQ
16	USGS-14319500
17	UmpNF-006
18	UmpNF-017
19	UmpNF-077
20	UmpNF-036
21	UmpNF-050
22	UmpNF-075
23	UmpNF-076
24	UmpNF-037
25	40119-ORDEQ
26	36302-ORDEQ
27	10997-ORDEQ
28	40120-ORDEQ
29	12277-ORDEQ
30	30696-ORDEQ
31	10996-ORDEQ
32	24405-ORDEQ
33	40519-ORDEQ
34	37508-ORDEQ
35	USGS-14320934
36	40520-ORDEQ
37	30161-ORDEQ
38	24102-ORDEQ
39	21831-ORDEQ

Map Monitoring Station Number	Station Name
40	23838-ORDEQ
41	37399-ORDEQ

Table 2 TMDL Temperature Data Logger Locations

Monitoring Station	Location ID
South Umpqua River Basin	
Black Rock Fork at the Mouth	UmpNF-006
South Umpqua at Tiller Ranger Station	UmpNF-076
South Umpqua 100m upstream of Myrtle Creek	40120-ORDEQ
Castle Rock Fork at the Mouth	UmpNF-017
South Umpqua River Above South Umpqua Falls	UmpNF-077
Dumont Creek at the Mouth	UmpNF-036
Jackson Creek Near the Mouth	UmpNF-050
South Umpqua at Three C Rock	UmpNF-075
Elk Creek at Tiller	UmpNF-037
South Umpqua River at River Mile 60	40119-ORDEQ
South Umpqua Upstream of ODOT Lawson Bar	36302-ORDEQ
Cow Creek at Mouth	10997-ORDEQ
South Umpqua River at Old Highway 99 Bridge Crossing at River Mile 24.6	30696-ORDEQ
Lookingglass Creek Upstream of Applegate Creek	12277-ORDEQ
Little River at Peel, Oregon	USGS-14318000
North Umpqua River Basin	
Upper Steamboat Below Little Rock, Headwater	UmpNF-082
N Umpqua Above Copeland Creek Near Toketee Falls	USGS-14316500
North Umpqua River at Winchester Or	USGS-14319500
Sutherlin Creek at Del Rio Road	41104-ORDEQ
Rock Creek at Mouth	32477-ORDEQ

North Umpqua River Above Rock Creek Near Glide Oregon	USGS-14317500
Rock Creek Near Glide	USGS-14317600
North Umpqua River Near Idleyld Park, Oregon	USGS-14317450
Rock Creek Upstream of East Fork Rock Creek	23874-ORDEQ
Canton Creek at the Mouth	UmpNF-016
Steamboat above Canton	UmpNF-079
Steelhead Creek at the Mouth	UmpNF-080
Big Bend Creek at the Mouth	UmpNF-004
North Umpqua River at Soda Springs Near Toketee Falls, Oregon	USGS-14316460
Lake Creek at the Mouth	UmpNF-052
Umpqua River Basin	
Smith River Upstream South Fork Smith River	24102-ORDEQ
Umpqua River at River Mile 49.58	40520-ORDEQ
Umpqua River at Discovery Center Docks	37399-ORDEQ
Calapooya Creek at Umpqua	10996-ORDEQ
Calapooya at Umpqua Landing	24405-ORDEQ
Hubbard Creek at Hubbard Creek Road Bridge	40519-ORDEQ
Little Wolf Creek Near Tyee, Oregon	USGS-14320934
Pass Creek at Mouth	30161-ORDEQ
Umpqua River at James Wood Boat Ramp	37508-ORDEQ
Middle Fork Smith River at River Mile 0.29	23838-ORDEQ
Halfway Creek tributary at River Mile 0.29	21831-ORDEQ

South Umpqua River Basin

Table 3 Minimum, Maximum, and Average Temperatures at Black Rock Fork at the Mouth (UmpNF-006) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	7728	5.5	22.4	12.9
July	14880	8.9	23.3	16.3
August	14880	11.4	22.0	16.5
September	12144	7.9	18.2	13.7
October	432	6.4	10.2	8.2

Figure 2: Daily Maximum and Minimum Temperatures at Black Rock Fork at the Mouth (UmpNF-006)

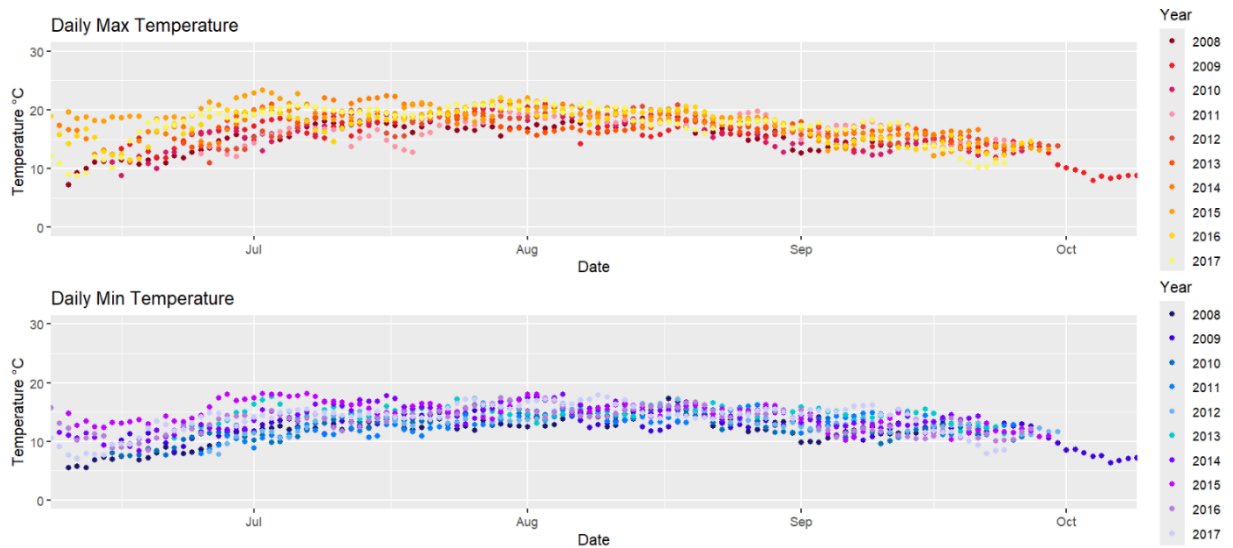


Figure 3: 7DADM Temperature at Black Rock Fork at the Mouth (UmpNF-006)

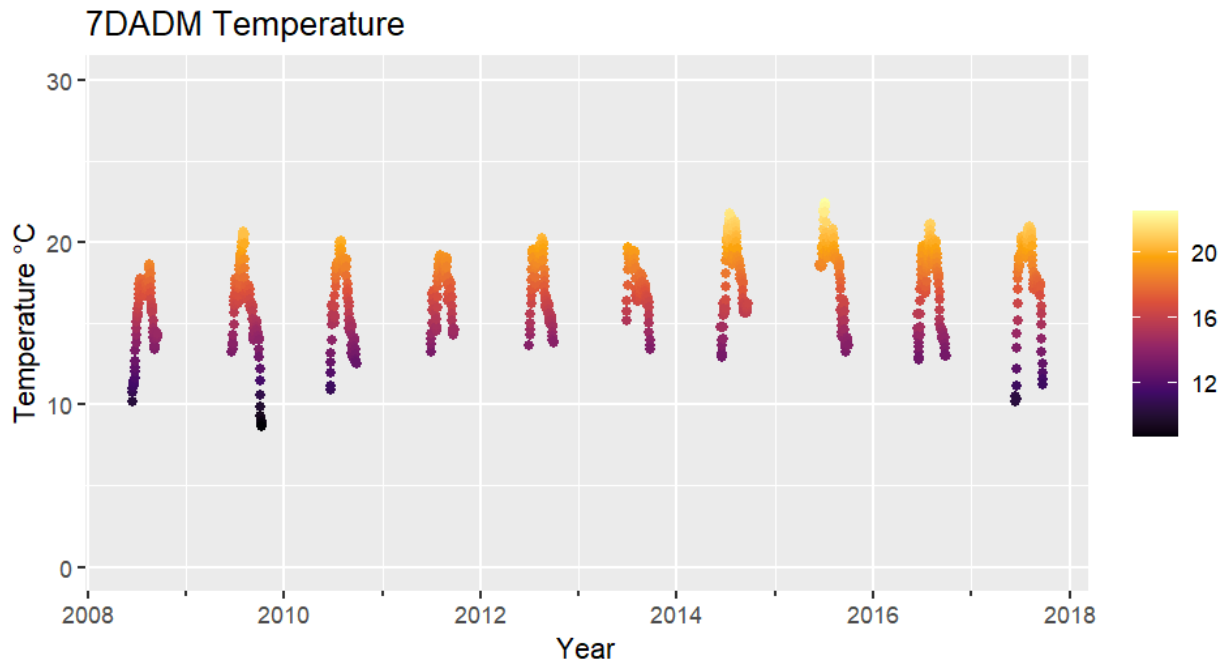


Figure 4: 7DADM Temperature Boxplot at Black Rock Fork at the Mouth (UmpNF-006)

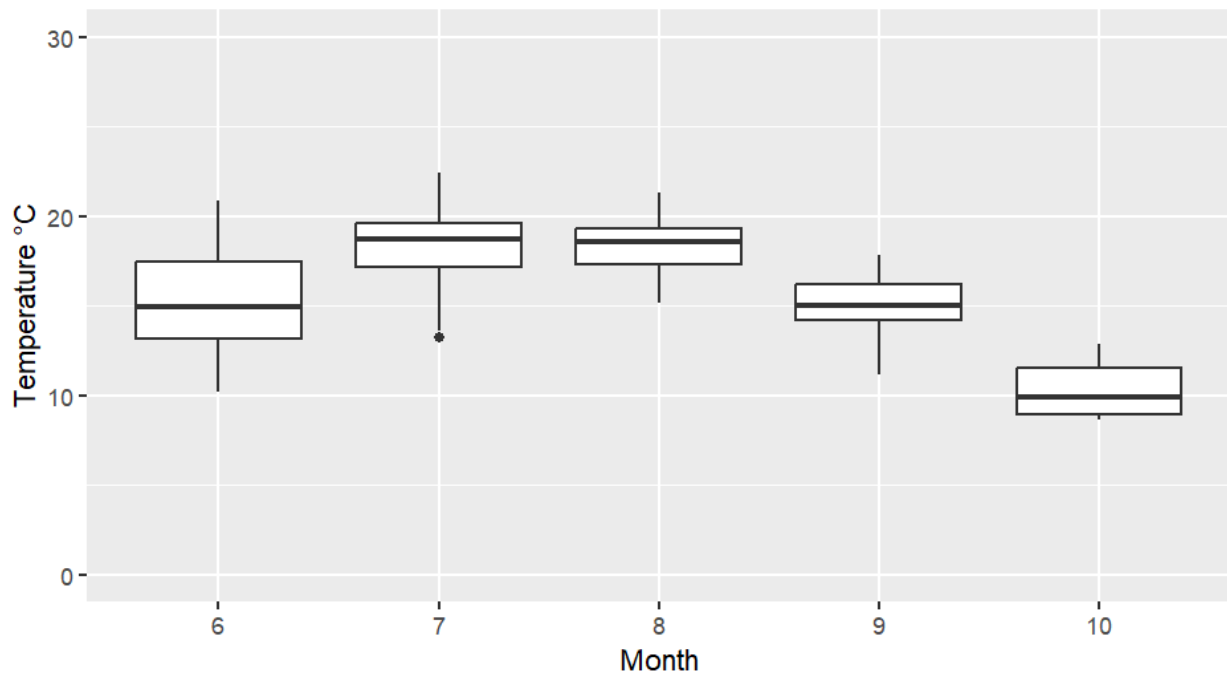


Table 4 Minimum, Maximum, and Average Temperatures at South Umpqua at Tiller Ranger Station (UmpNF-076) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	5952	0.4	9.0	4.7
February	5376	3.2	9.4	6.3
March	5952	4.2	11.8	7.5
April	5760	5.6	14.9	9.0
May	5952	7.1	20.6	12.9
June	8112	8.3	27.3	17.5
July	10416	14.5	29.1	22.6
August	10416	15.8	28.0	21.8
September	8640	11.9	24.4	18.0
October	5328	7.2	19.3	11.5
November	5760	2.6	11.8	8.3
December	5952	0.0	10.1	5.5

Figure 5: Daily Maximum and Minimum Temperatures at South Umpqua at Tiller Ranger Station (UmpNF-076)

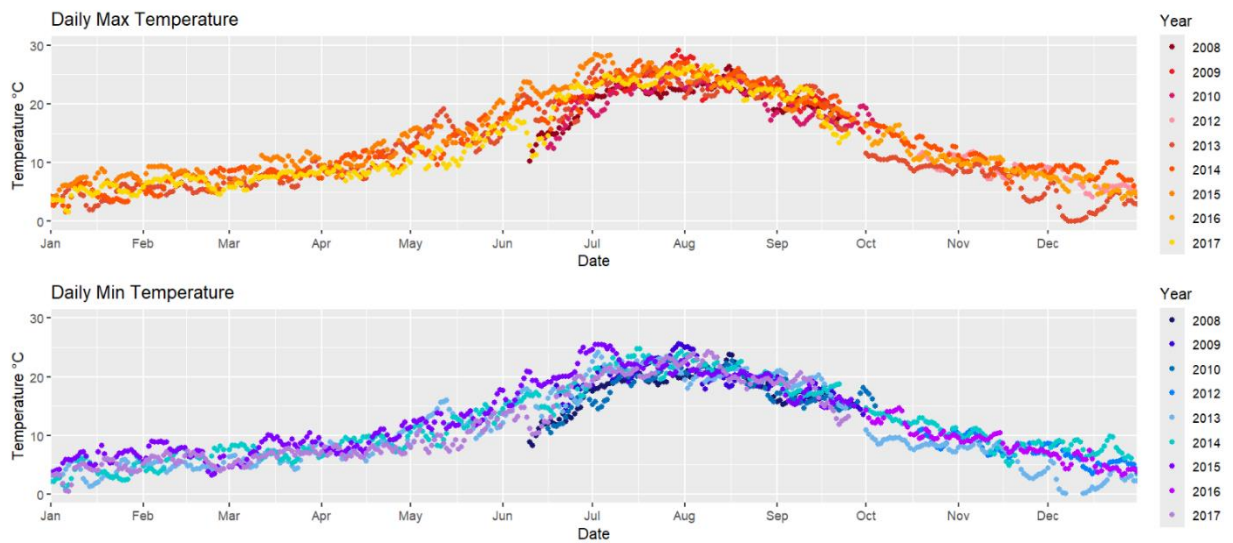


Figure 6: 7DADM Temperature at South Umpqua at Tiller Ranger Station (UmpNF-076)

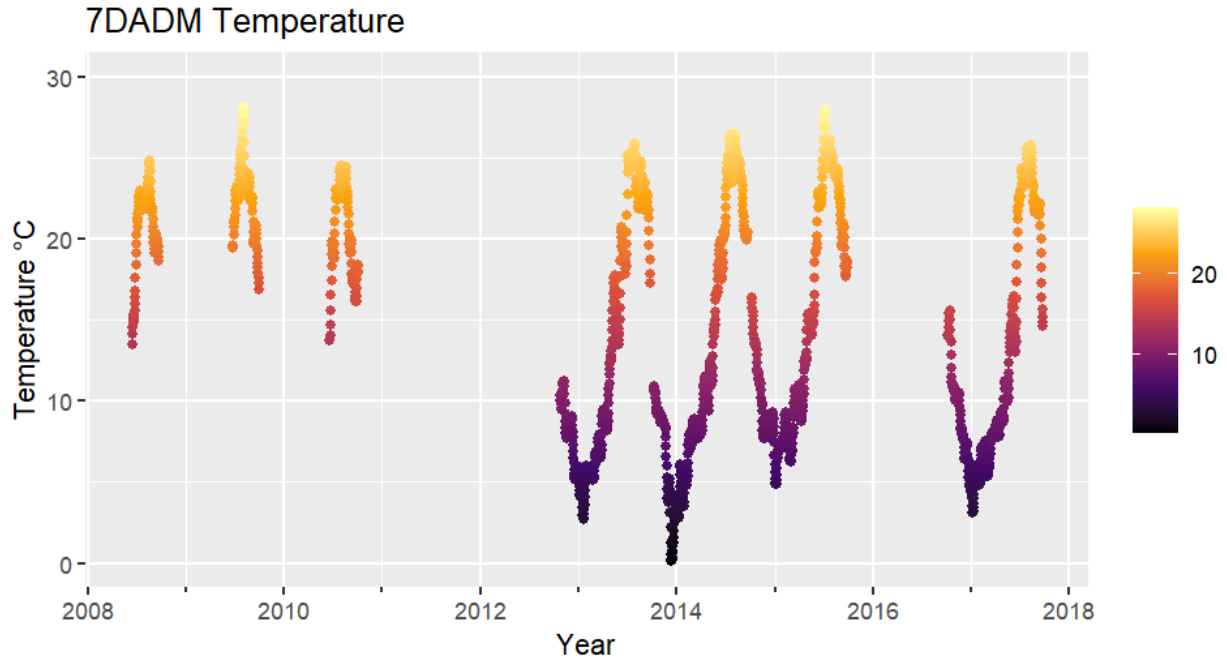


Figure 7: 7DADM Temperature Boxplot at South Umpqua at Tiller Ranger Station (UmpNF-076)

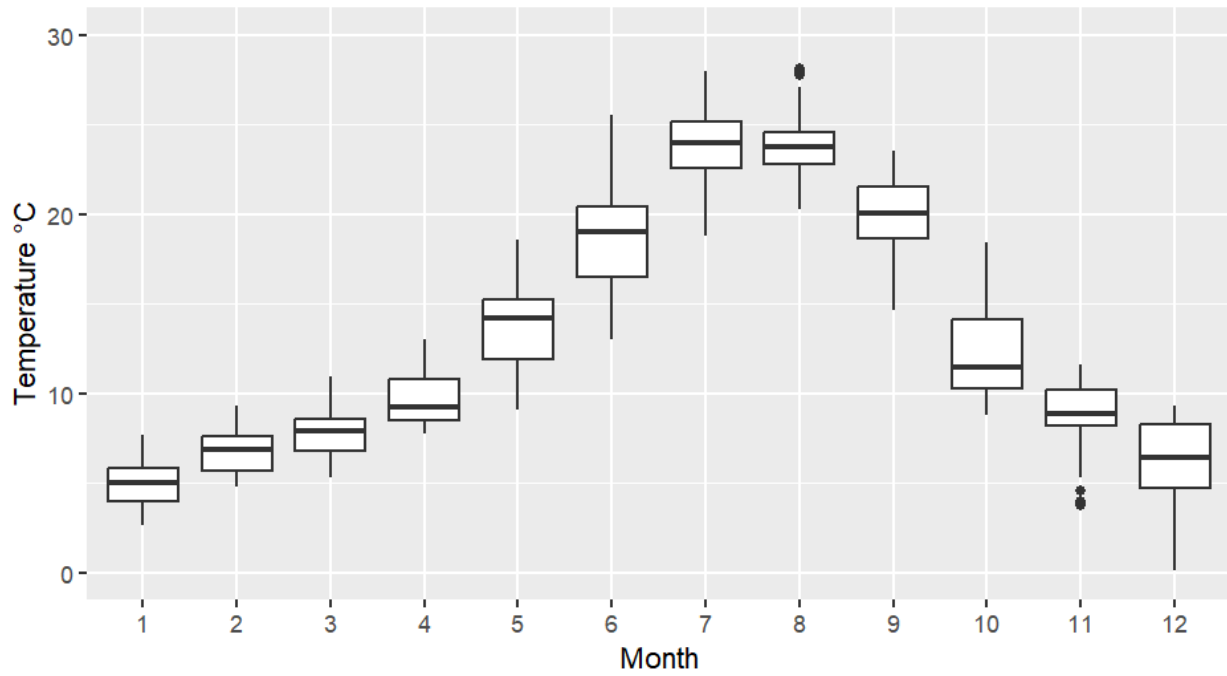


Table 5 Minimum, Maximum, and Average Temperatures at South Umpqua 100m Upstream of Myrtle Creek (40120-ORDEQ) from 2015-2022

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	307	16.6	23.8	19.8
June	3043	17.9	31.6	23.9
July	9866	19.6	30.4	25.1
August	10416	20.2	29.4	24.3
September	7388	15.8	25.1	20.3
October	1135	11.5	18.3	14.5

Figure 8: Daily Maximum and Minimum Temperatures at South Umpqua 100m Upstream of Myrtle Creek (40120-ORDEQ)

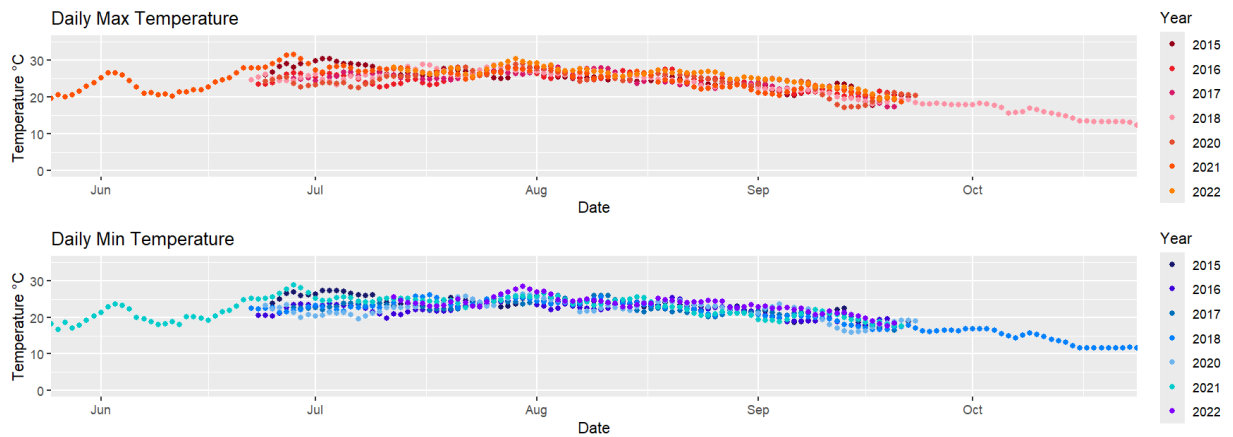


Figure 9: 7DADM Temperature at South Umpqua 100m Upstream of Myrtle Creek (40120-ORDEQ)

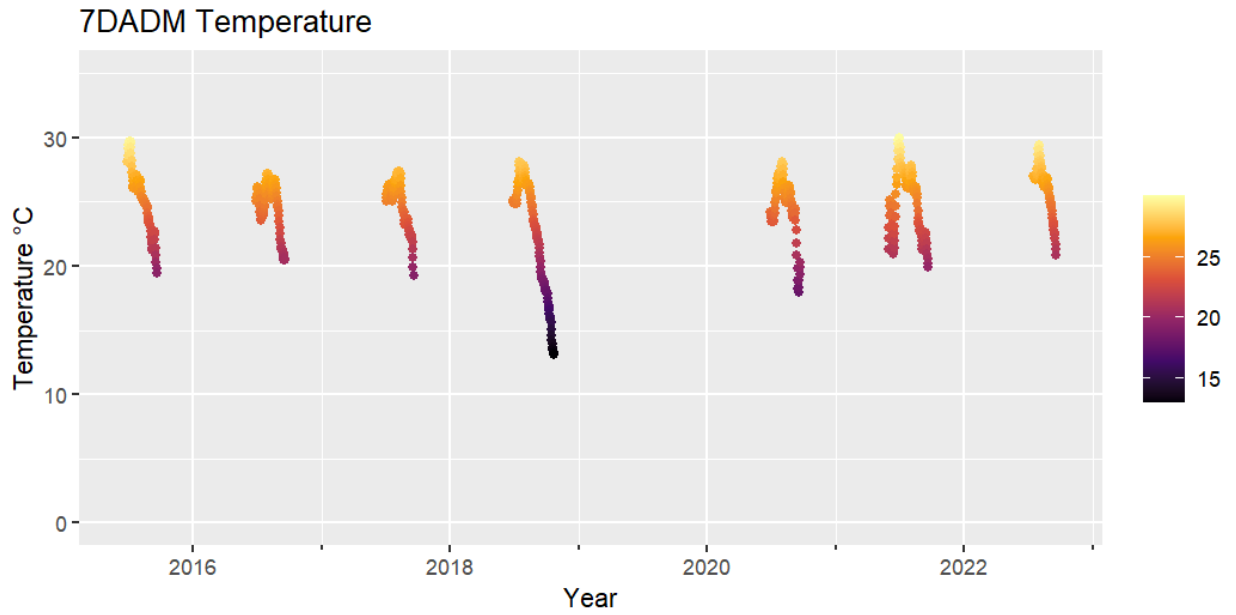


Figure 10: 7DADM Temperature Boxplot at South Umpqua 100m Upstream of Myrtle Creek (40120-ORDEQ)

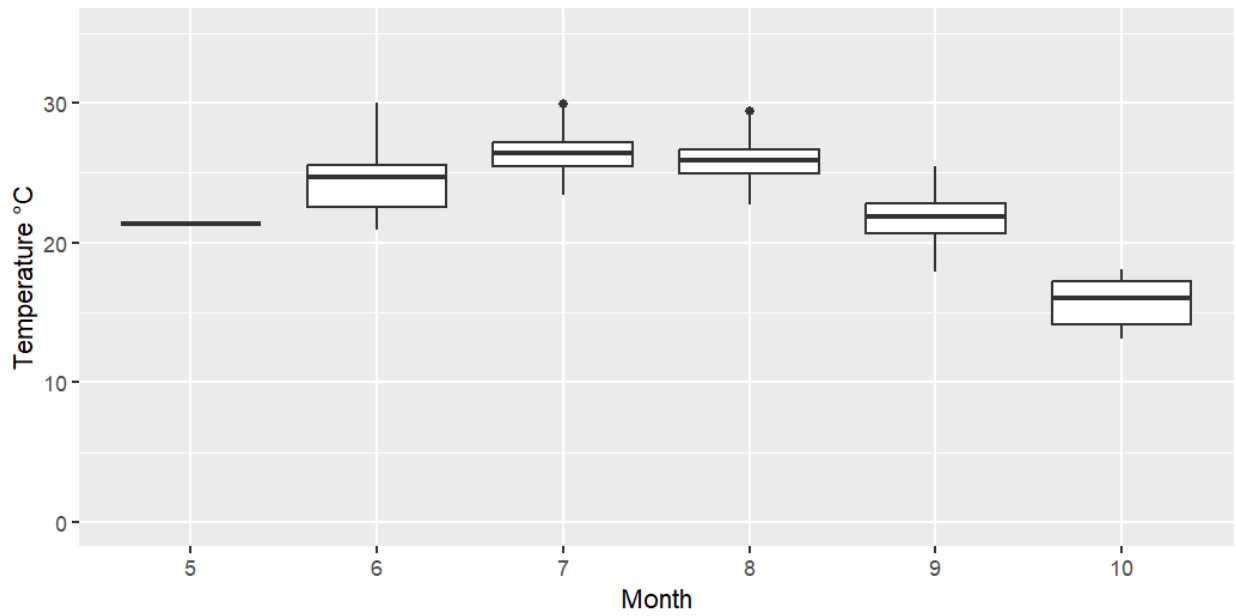


Table 6 Minimum, Maximum, and Average Temperatures at Castle Rock Fork at the Mouth (UmpNF-017) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	8400	6.2	22.4	12.9
July	14880	8.2	23.4	16.4
August	14880	11.3	22.0	16.6
September	12096	8.4	18.4	13.7
October	624	6.0	13.2	8.9

Figure 11: Daily Maximum and Minimum Temperatures at Castle Rock Fork at the Mouth (UmpNF-017)

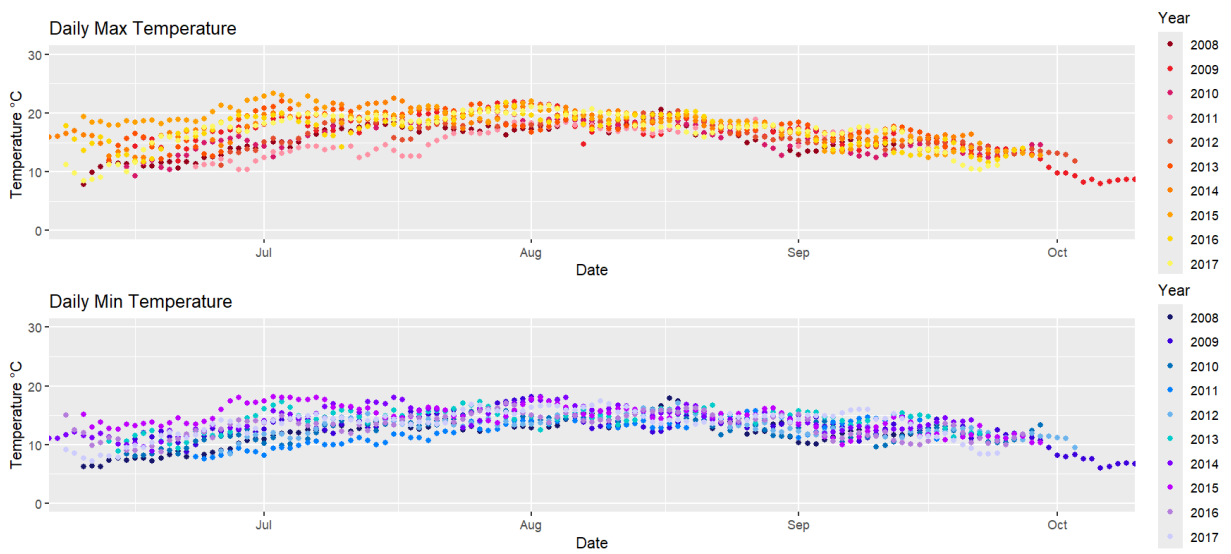


Figure 12: 7DADM Temperature at Castle Rock Fork at the Mouth (UmpNF-017)

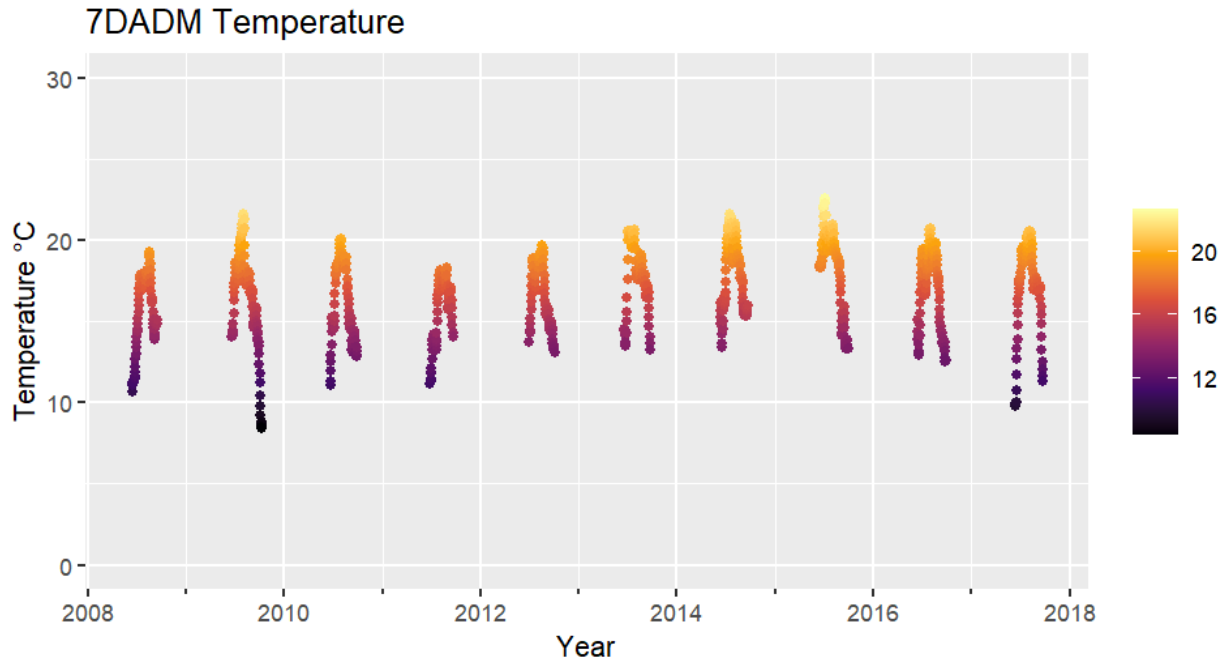


Figure 13: 7DADM Temperature Boxplot at Castle Rock at the Mouth (UmpNF-017)

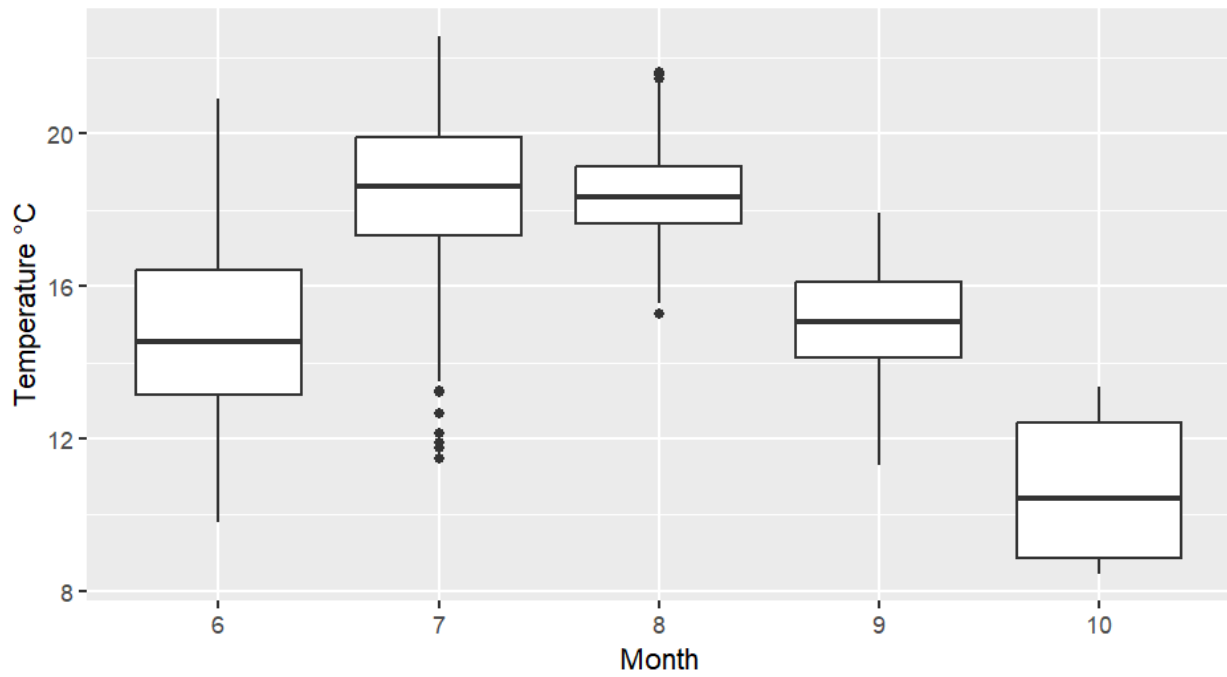


Table 7 Minimum, Maximum, and Average Temperatures at South Umpqua River Above South Umpqua Falls (UmpNF-077) from 2008 and 2010-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	6048	9.4	25.4	15.9
July	13392	9.7	26.3	18.7
August	13392	13.1	24.7	19.0
September	10464	9.6	21.6	15.7
October	144	10.9	15.2	13.4

Figure 14: Daily Maximum and Minimum Temperatures at South Umpqua Above South Umpqua Falls (UmpNF-077)

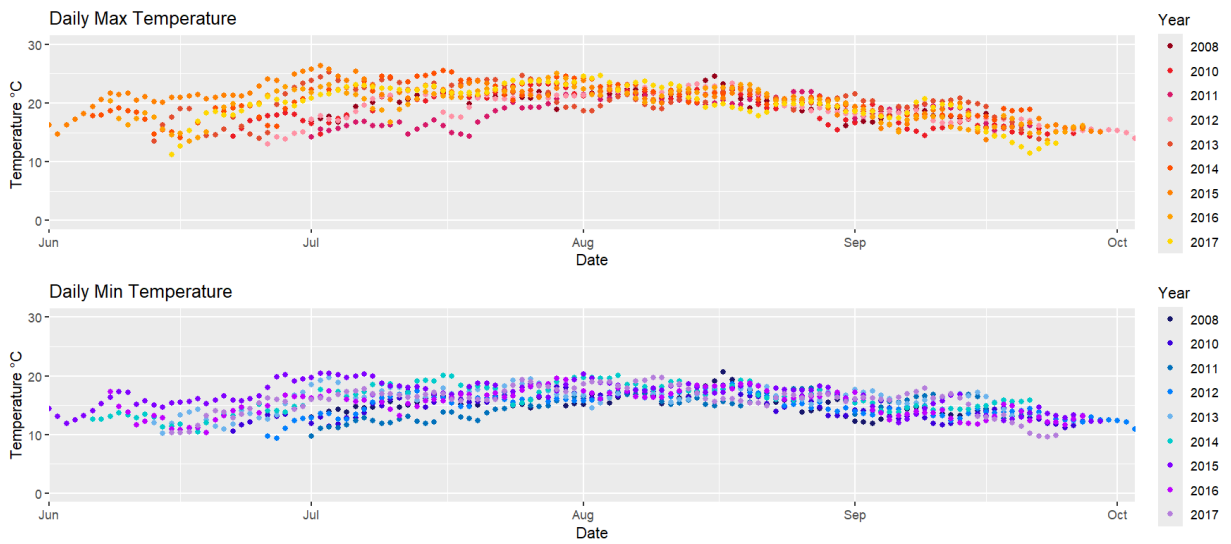


Figure 15: 7DADM Temperature at South Umpqua River Above South Umpqua Falls (UmpNF-077)

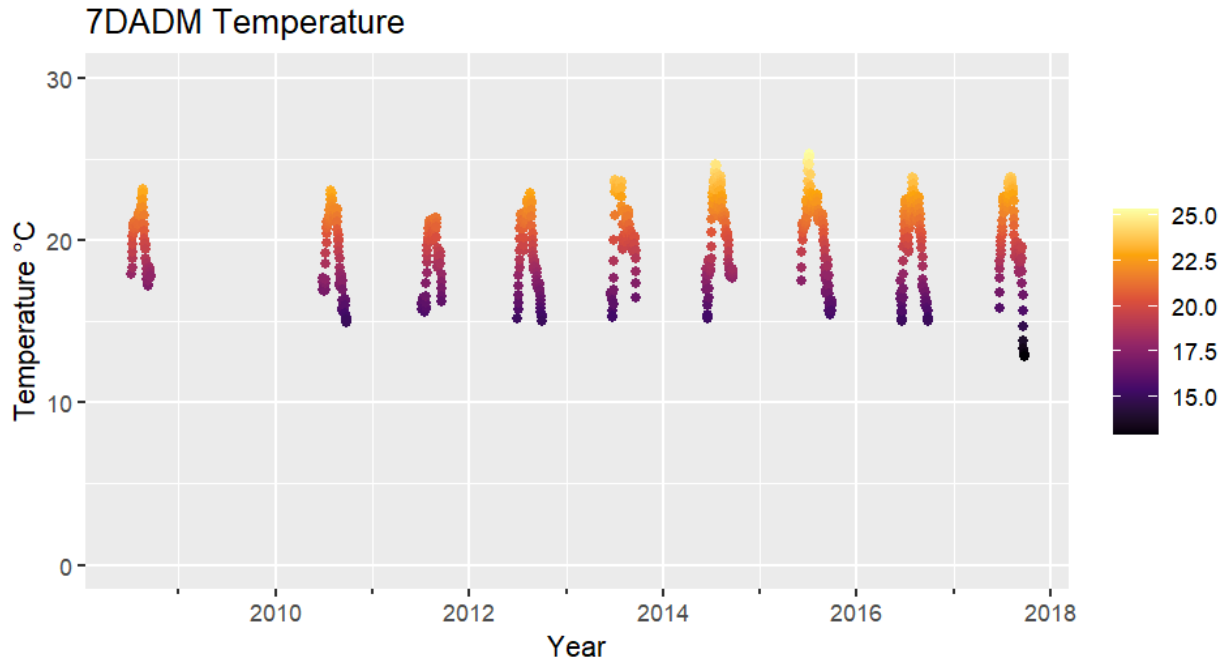


Figure 16: 7DADM Temperature Boxplot at South Umpqua River Above South Umpqua Falls (UmpNF-077)

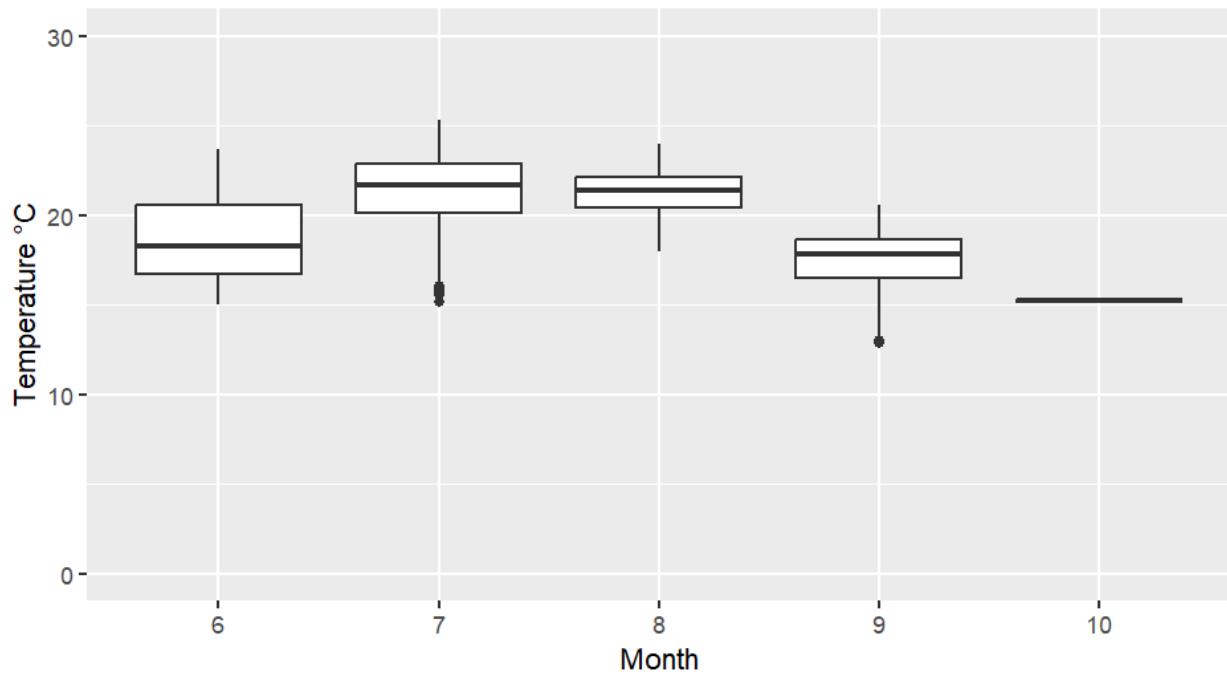


Table 8 Minimum, Maximum, and Average Temperatures at Dumont Creek at the Mouth (UmpNF-036) from 2008 – 2013 and 2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	3984	8.0	20.3	14.3
July	10416	11.3	24.2	17.3
August	10416	12.7	23.9	17.6
September	8496	10.1	19.7	14.9

Figure 17: Daily Maximum and Minimum Temperatures at Dumont Creek at the Mouth (UmpNF-036)

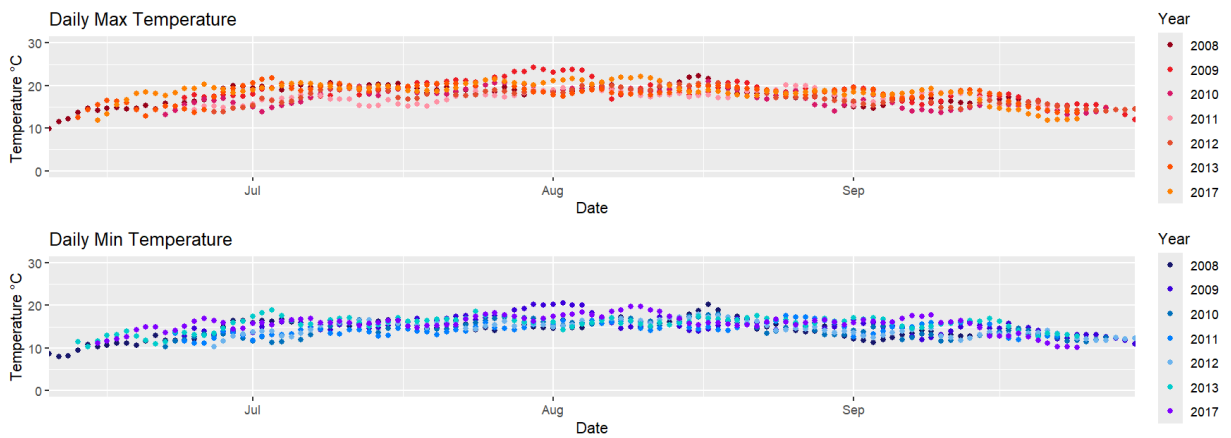


Figure 18: 7DADM Temperatures at Dumont Creek at the Mouth (UmpNF-036)

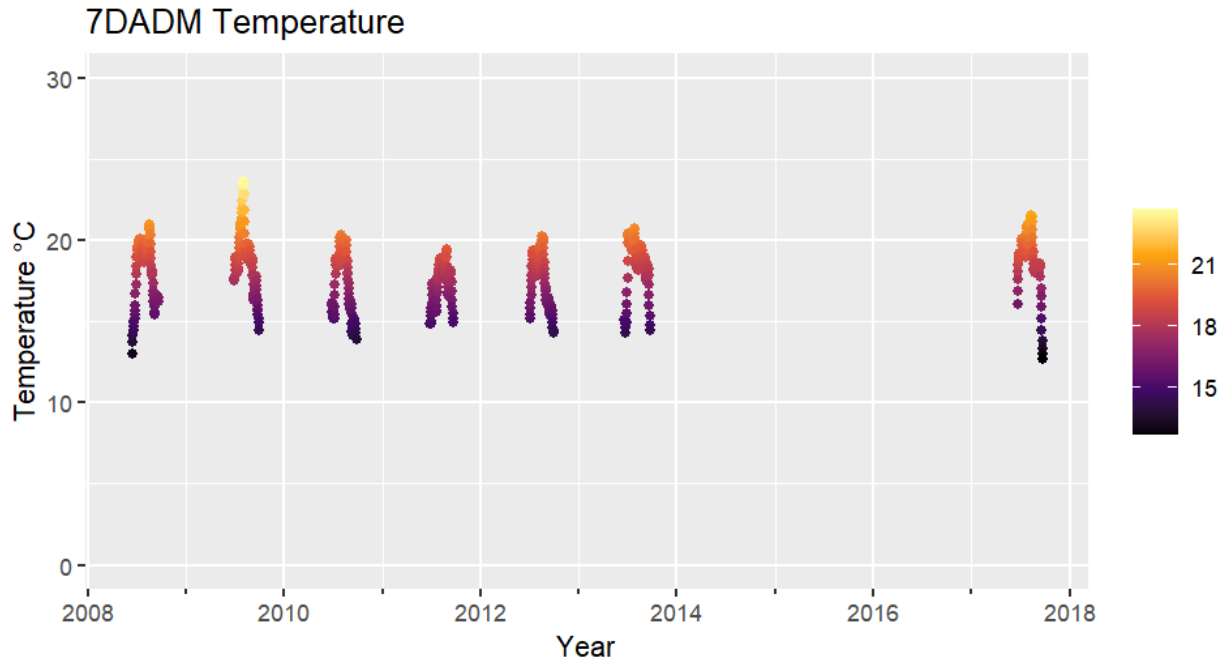


Figure 19: 7DADM Temperature Boxplot at Dumont Creek at the Mouth (UmpNF-036)

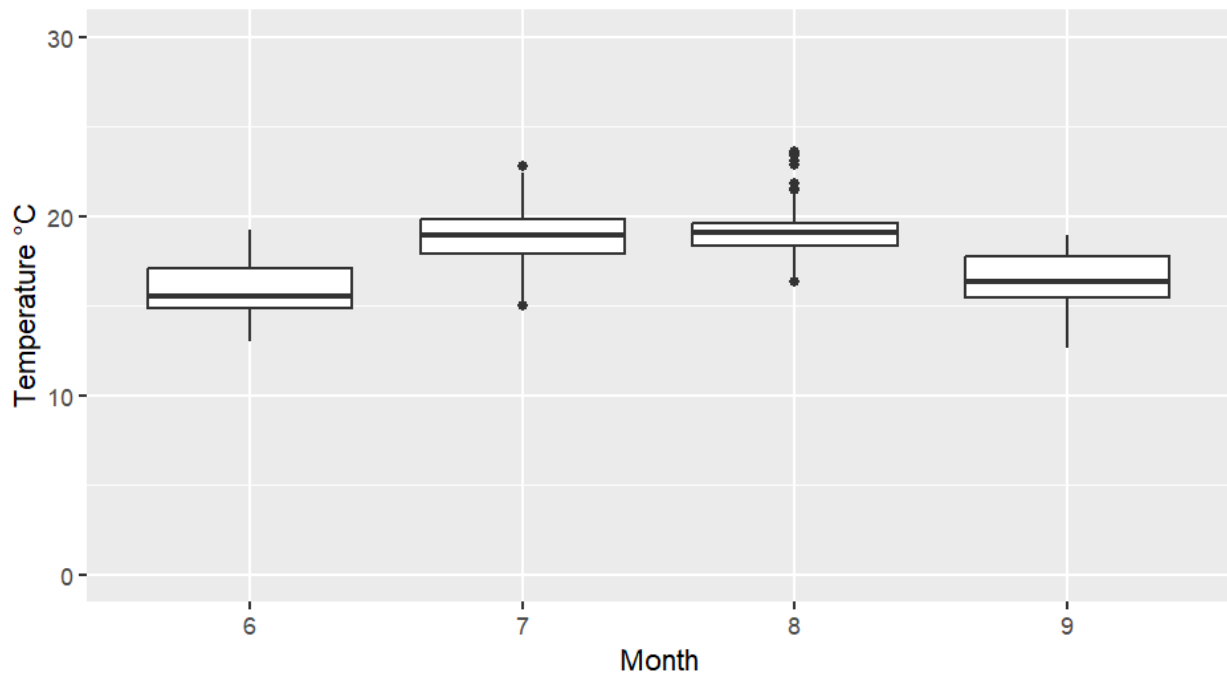


Table 9 Minimum, Maximum, and Average Temperatures at Jackson Creek Near the Mouth (UmpNF-050) from 2008 - 2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	7680	7.2	25.1	15.9
July	14880	10.8	26.2	19.5
August	14880	13.6	25.2	19.0
September	12048	10.1	21.7	15.2
October	672	7.0	14.0	10.2

Figure 20: Daily Maximum and Minimum Temperatures at Jackson Creek Near the Mouth (UmpNF-050)

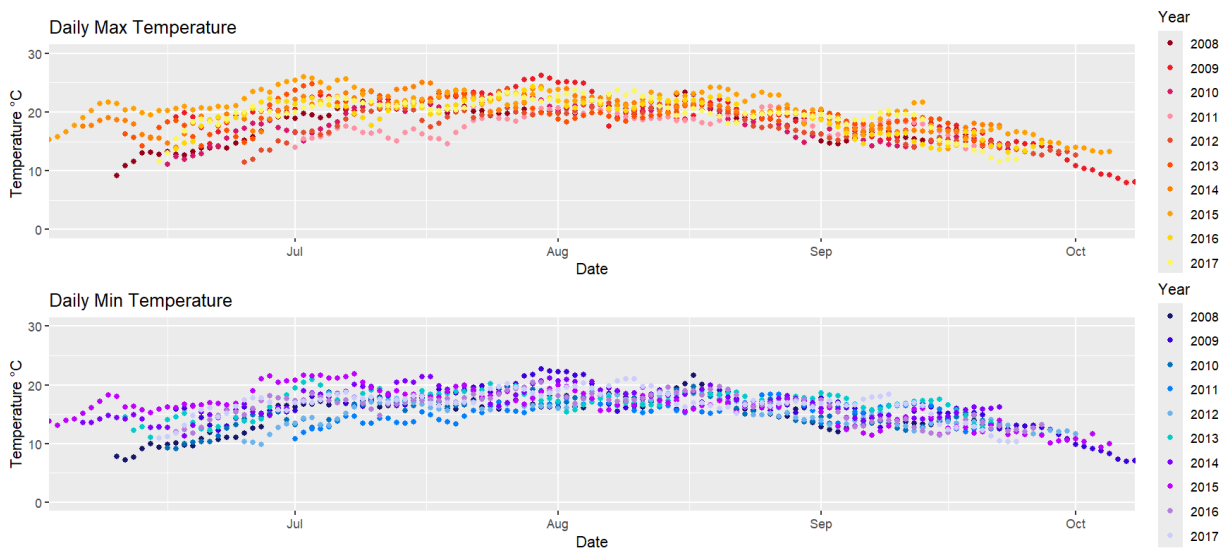


Figure 21: 7DADM Temperature at Jackson Creek Near the Mouth (UmpNF-050)

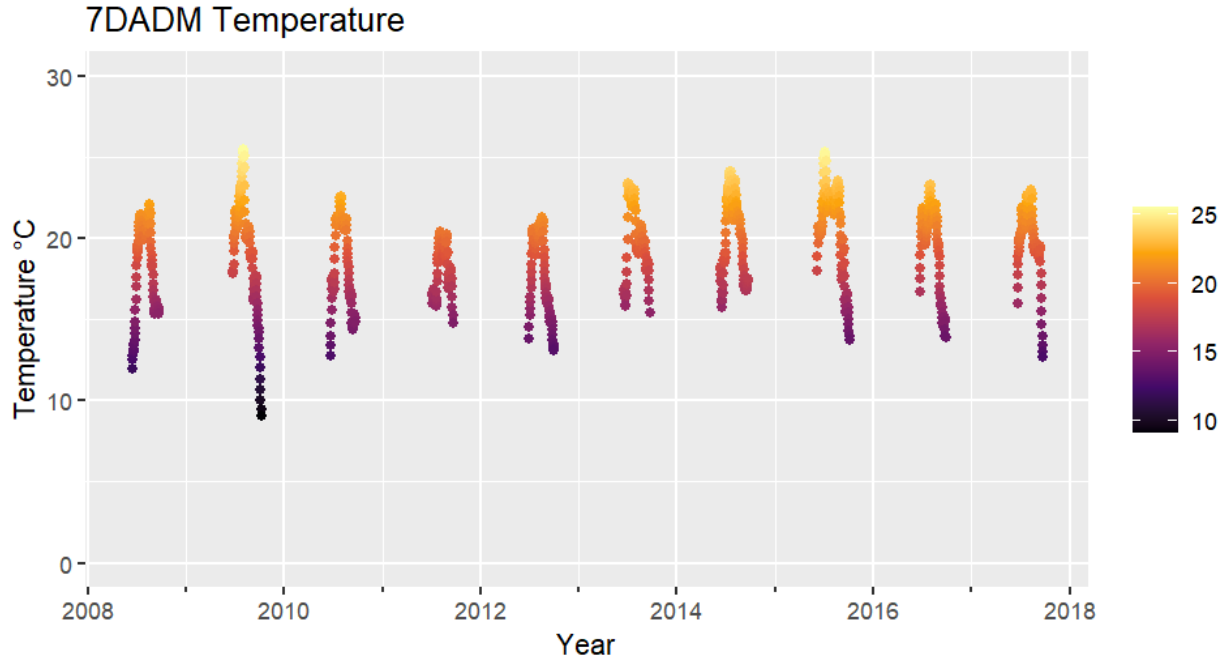


Figure 22: 7DADM Temperature Boxplot at Jackson Creek Near the Mouth (UmpNF-050)

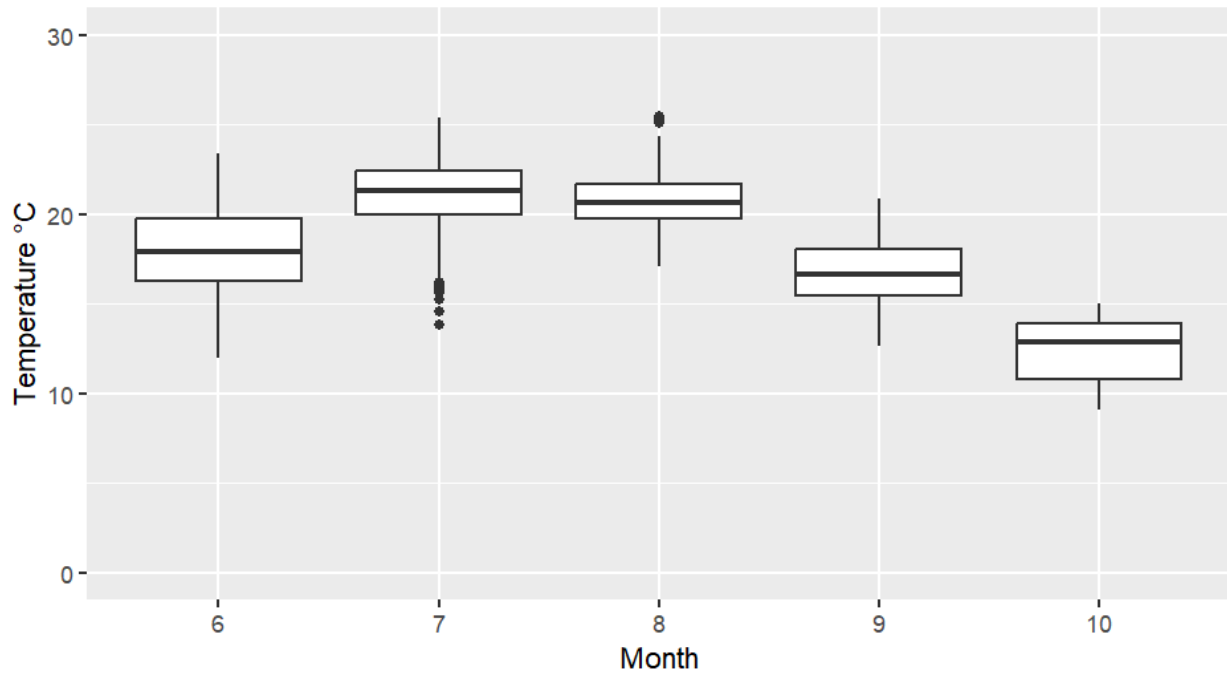


Table 10 Minimum, Maximum, and Average Temperatures at Three C Rock (UmpNF-075) from 2008 - 2013

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	2640	8.1	25.1	16.0
July	8640	14.0	28.8	20.5
August	8112	13.5	28.1	20.6
September	5232	11.9	23.8	17.5

Figure 23: Daily Maximum and Minimum Temperatures at South Umpqua at Three C Rock (UmpNF-075)

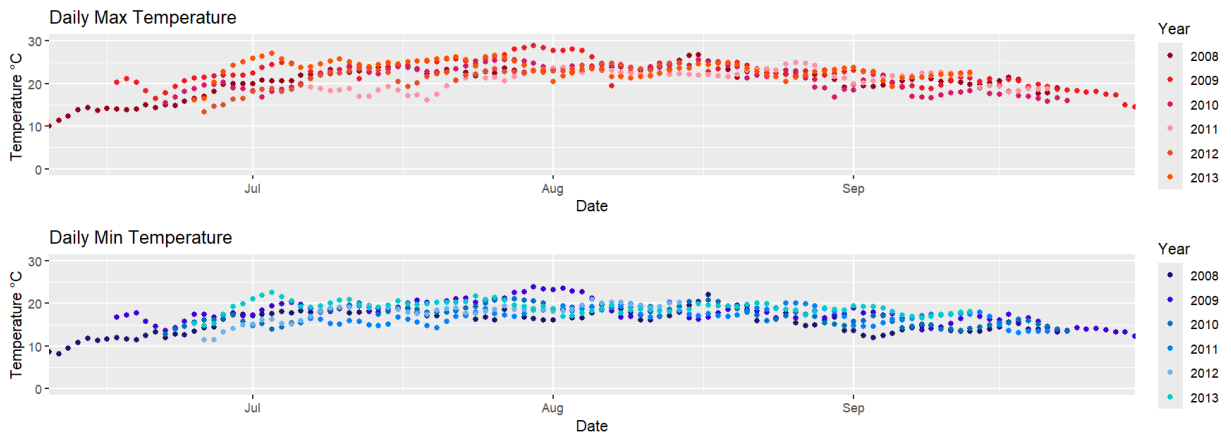


Figure 24: 7DADM Temperature at South Umpqua at Three C Rock (UmpNF-075)

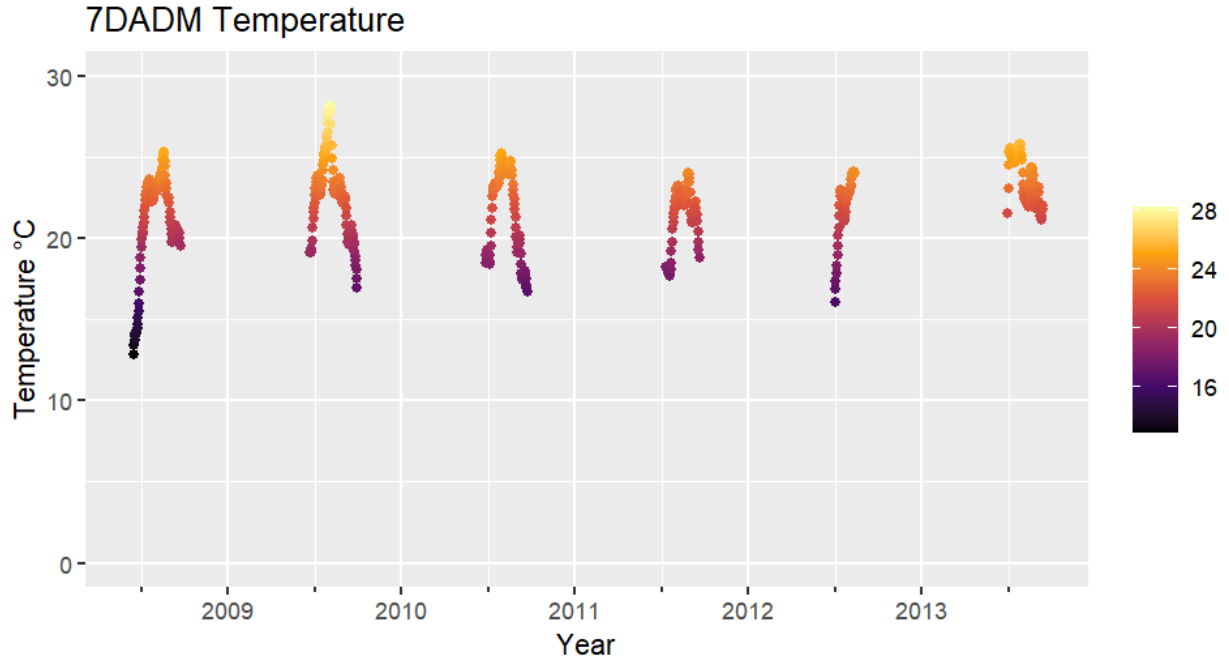


Figure 25: 7DADM Temperature Boxplot at South Umpqua at Three C Rock (UmpNF-075)

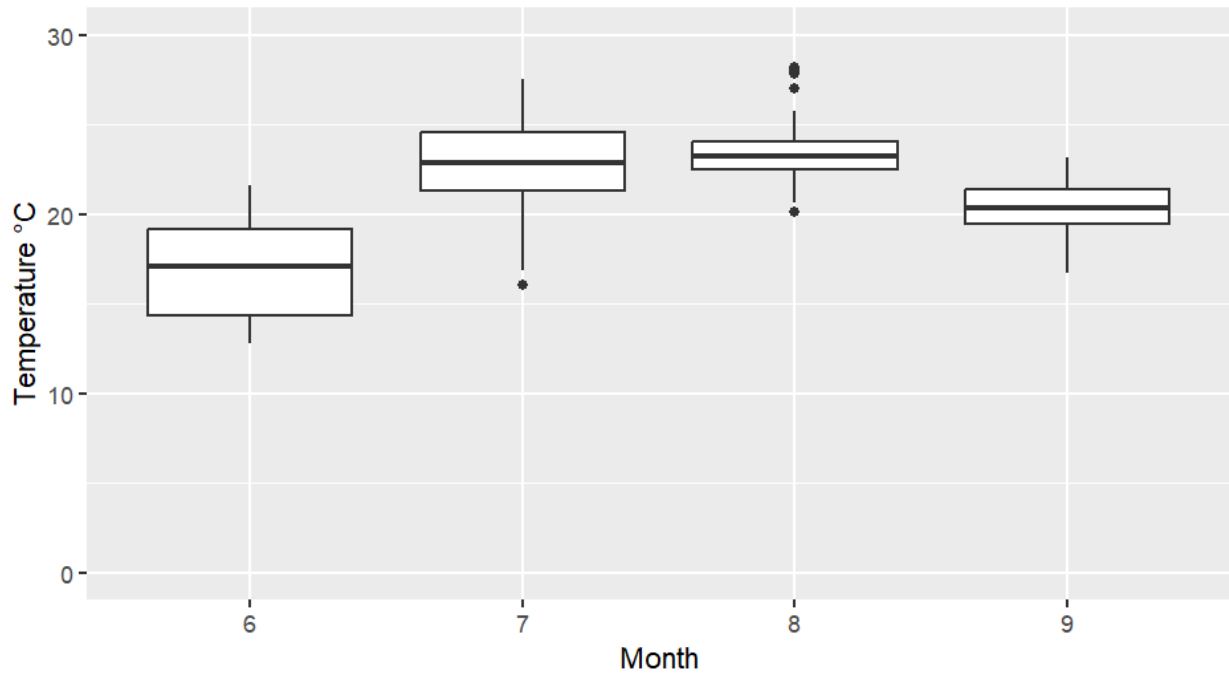


Table 11 Minimum, Maximum, and Average Temperatures at Elk Creek at Tiller (UmpNF-037) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	7344	9.9	25.0	17.2
July	14880	13.7	25.8	19.4
August	14880	14.3	23.6	18.6
September	12144	11.2	20.3	15.1
October	48	12.0	13.3	12.7

Figure 26: Daily Maximum and Minimum Temperatures at Elk Creek at Tiller (UmpNF-037)

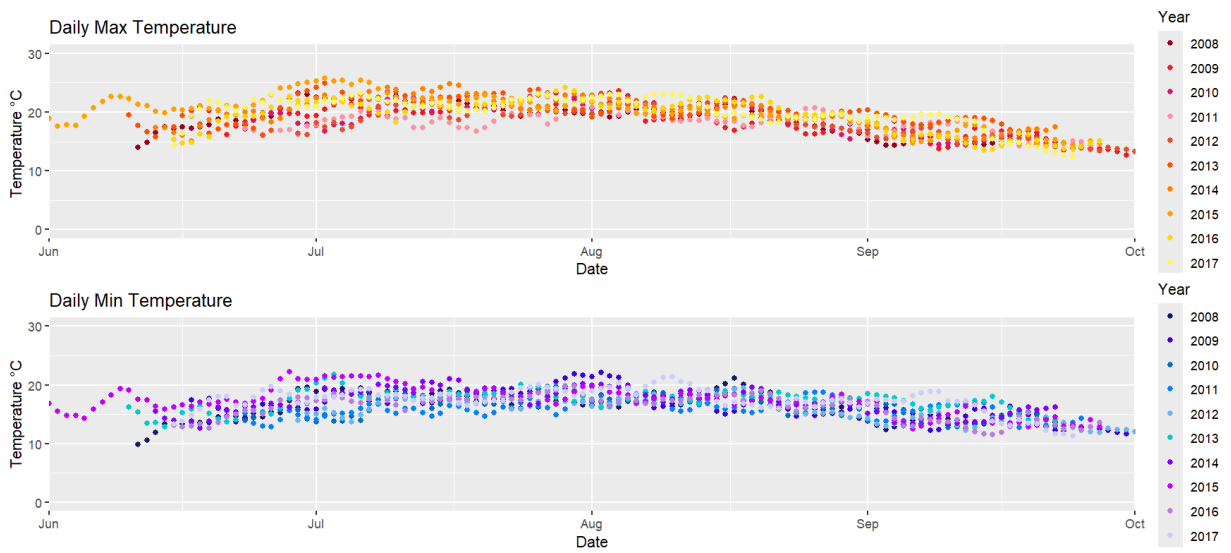


Figure 27: 7DADM Temperature at Elk Creek at Tiller (UmpNF-037)

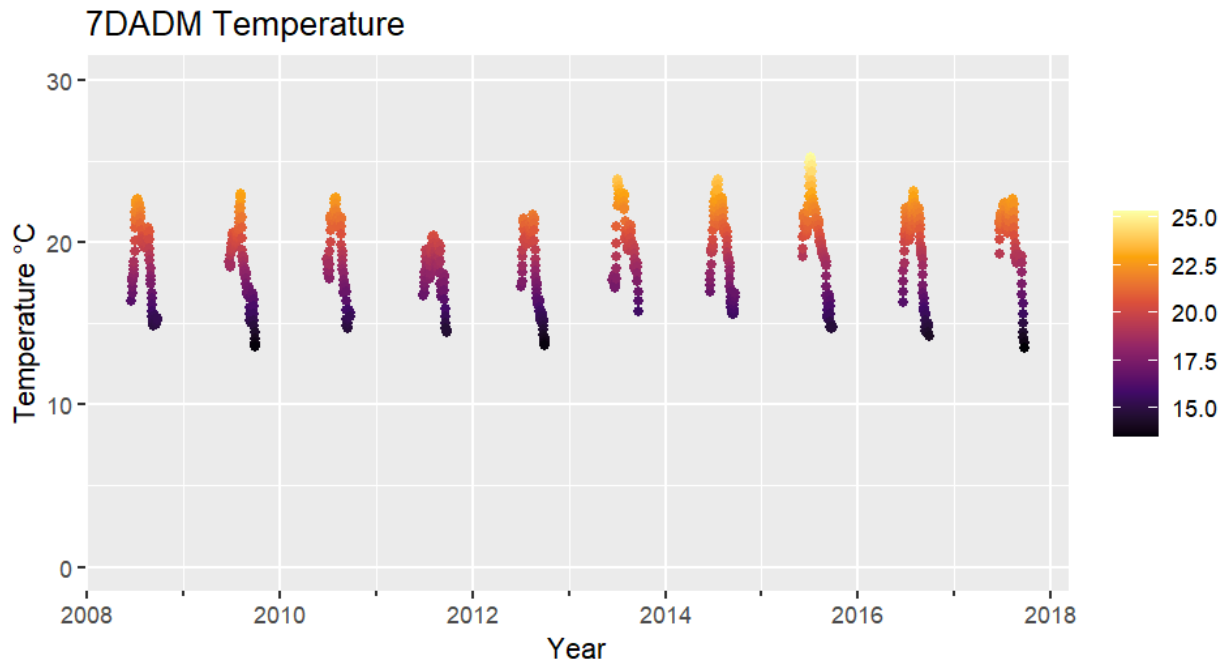


Figure 28: 7DADM Temperature Boxplot at Elk Creek at Tiller (UmpNF-037)

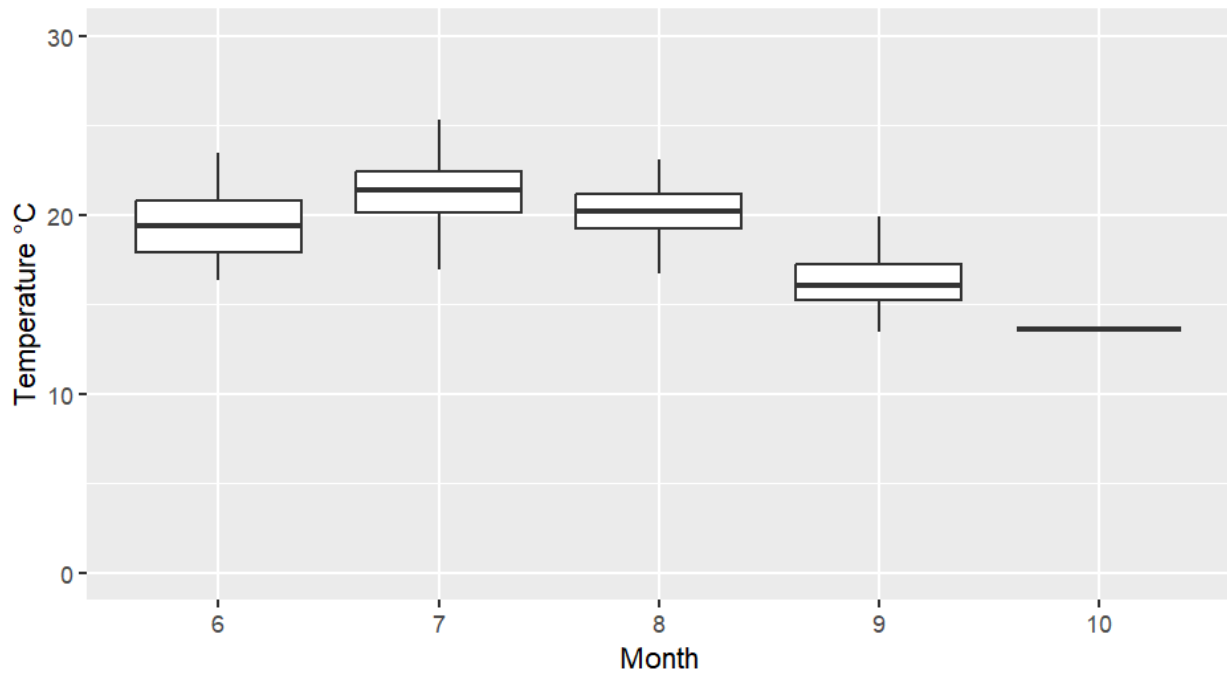


Table 12 Minimum, Maximum, and Average Temperatures at South Umpqua River at River Mile 60 (40119-ORDEQ) from 2015-2018

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	942	19.3	29.7	23.6
July	4464	19.1	30.5	24.6
August	4464	18.4	29.2	23.4
September	3913	12.8	24.9	19.1
October	1536	9.9	18.4	13.9

Figure 29: Daily Maximum and Minimum Temperatures at South Umpqua River at River Mile 60 (40119-ORDEQ)

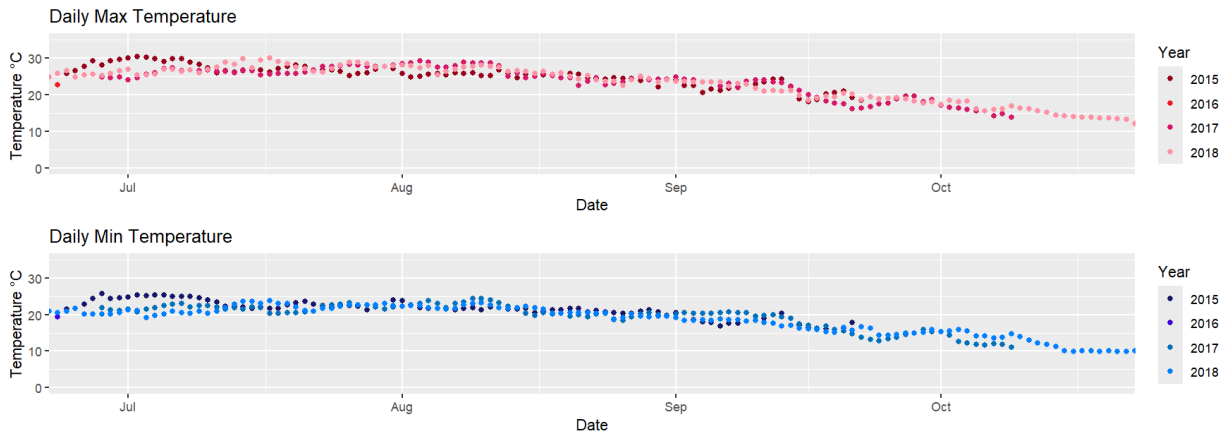


Figure 30: 7DADM Temperature at South Umpqua River at River Mile 60 (40119-ORDEQ)

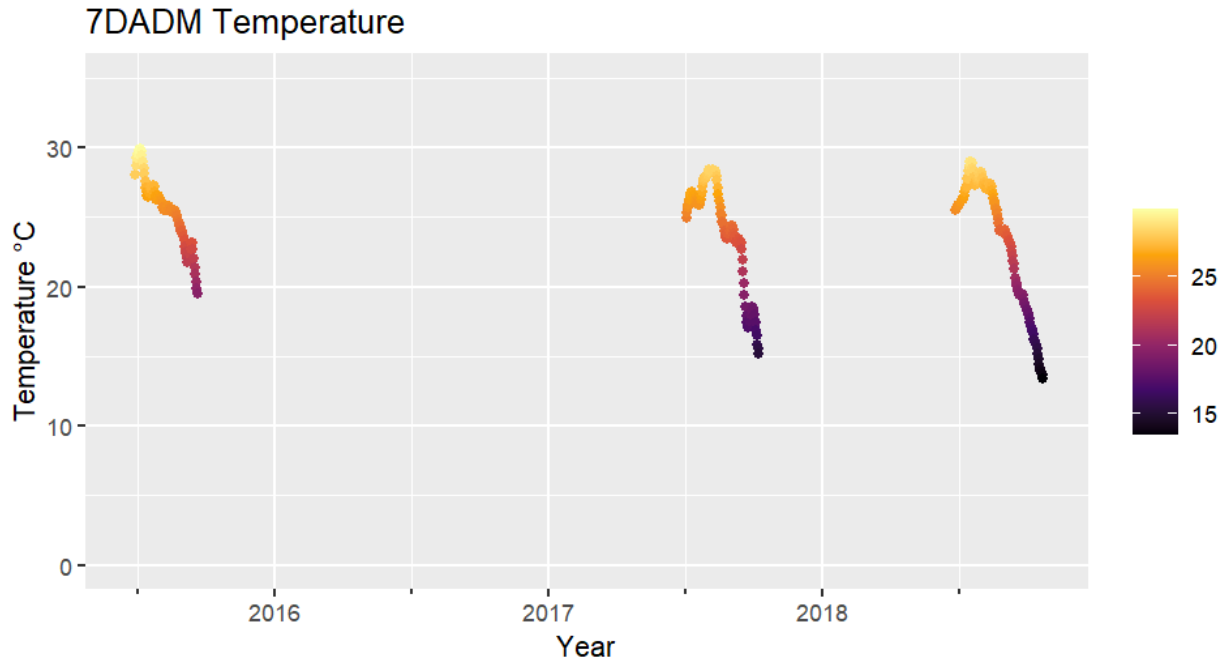


Figure 31: 7DADM Temperature Boxplot at South Umpqua River at River Mile 60 (40119-ORDEQ)

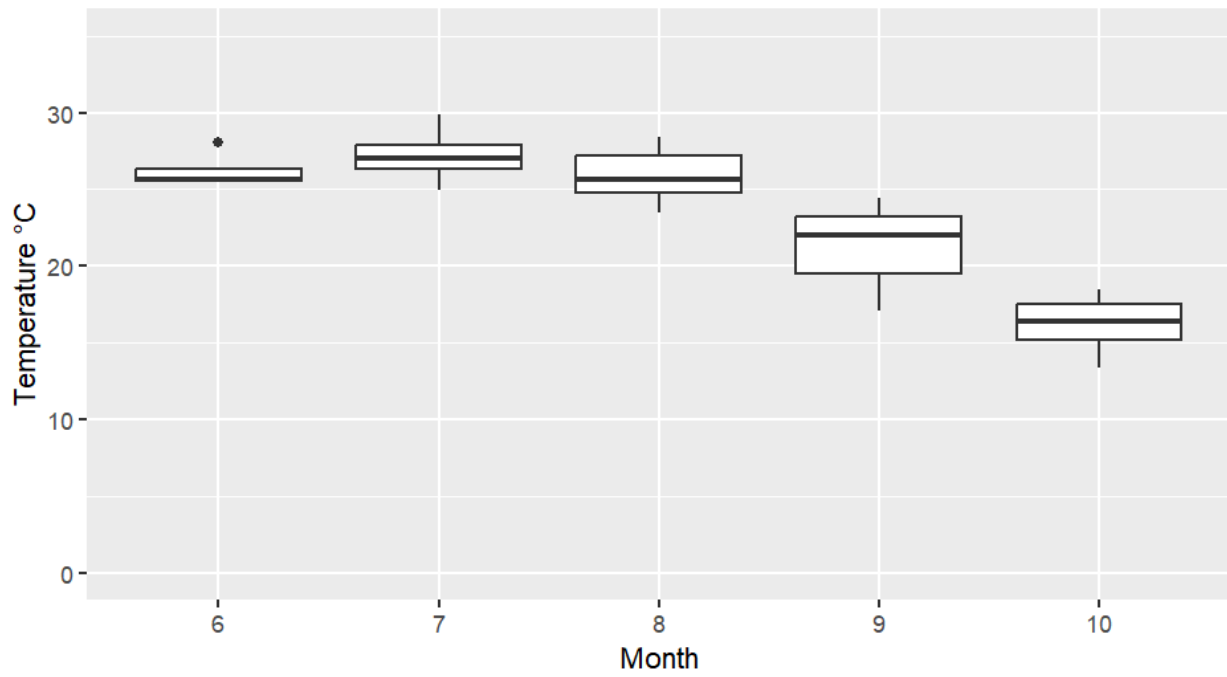


Table 13 Minimum, Maximum, and Average Temperatures at South Umpqua River Upstream of ODOT Lawson Bar (36302-ORDEQ) from 2016-2020

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	1269	19.2	26.5	23.1
July	5952	18.7	29.6	24.7
August	5952	19.7	29.6	24.6
September	4426	15.0	26.6	20.2
October	1132	10.9	18.5	14.2

Figure 32: Daily Maximum and Minimum Temperatures at South Umpqua Upstream of ODOT Lawson Bar (36302-ORDEQ)

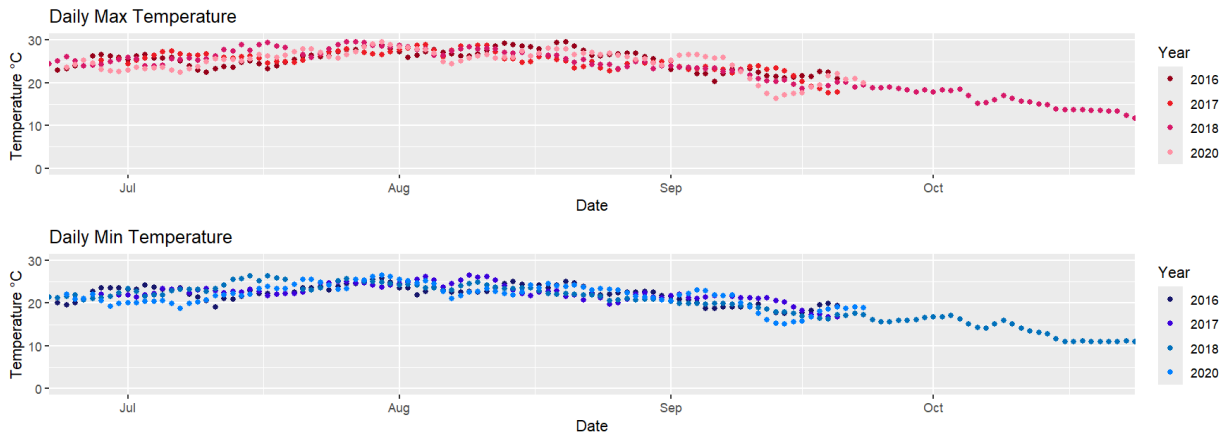


Figure 33: 7DADM Temperature at South Umpqua Upstream of ODOT Lawson Bar (36302-ORDEQ)

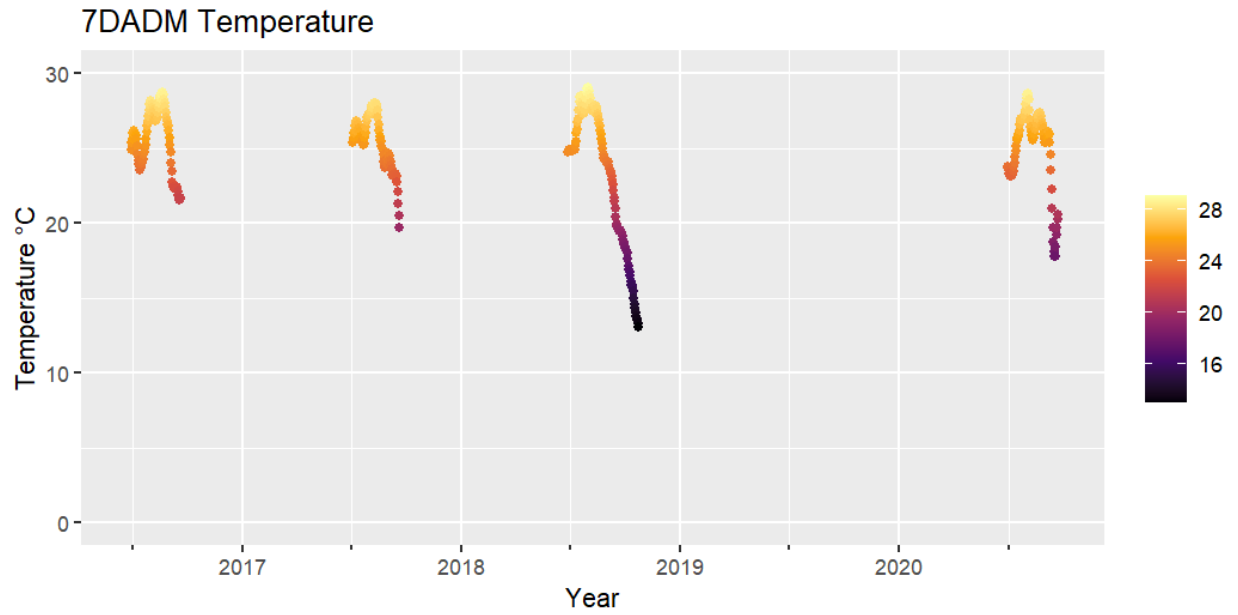


Figure 34: 7DADM Temperature Boxplot at South Umpqua Upstream of ODOT Lawson Bar (36302-ORDEQ)

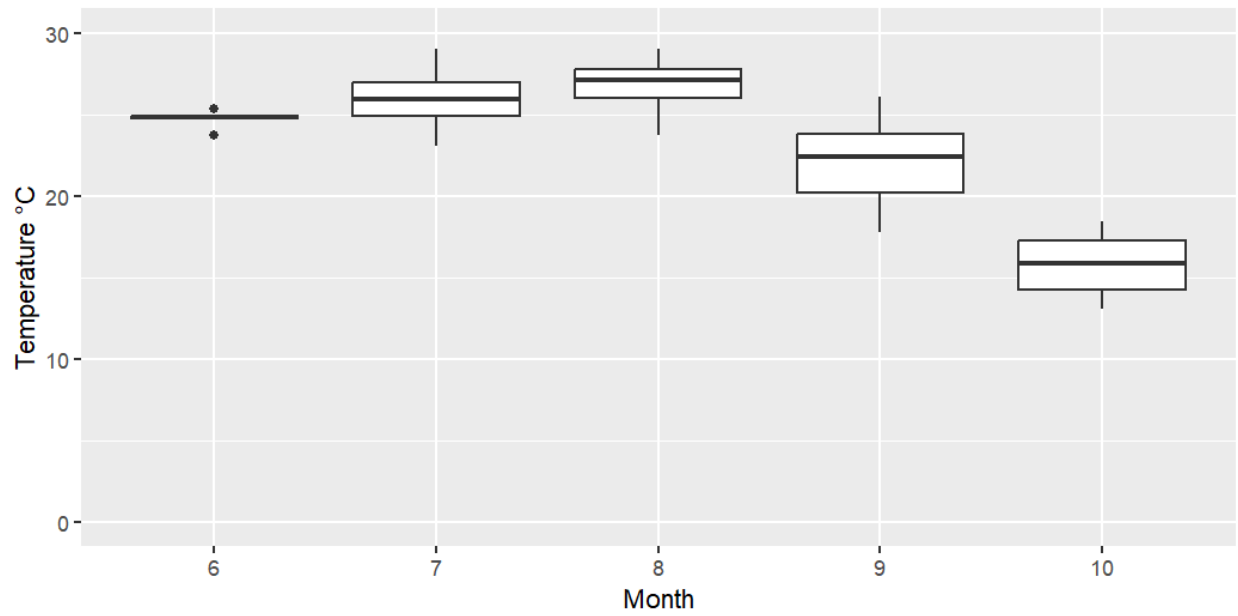


Table 14 Minimum, Maximum, and Average Temperatures at Cow Creek at Mouth (10997-ORDEQ) from 2002, 2016-2018, and 2021-2022

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	982	14.6	24.1	18.8
June	3814	14.2	32.2	22.1
July	8902	17.7	30.8	24.4
August	9218	18.2	29.3	23.5
September	5770	13.7	25.7	19.4
October	1131	9.1	17.7	13.2

Figure 35: Daily Maximum and Minimum Temperatures at Cow Creek at Mouth (10997-ORDEQ)

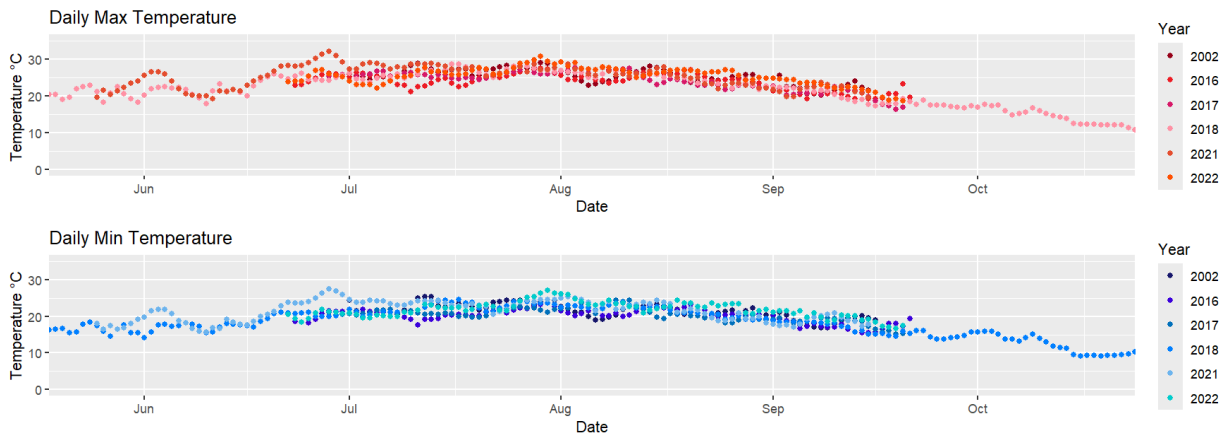


Figure 36: 7DADM Temperature at Cow Creek at Mouth (10997-ORDEQ)

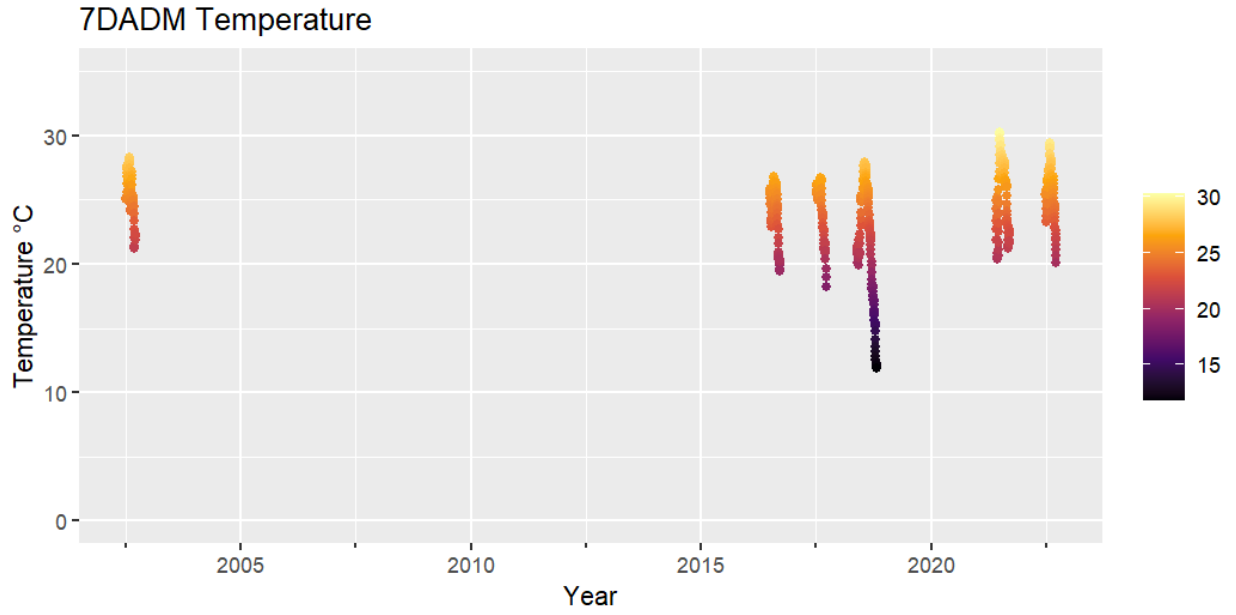


Figure 37: 7DADM Temperature Boxplot at Cow Creek at Mouth (10997-ORDEQ)

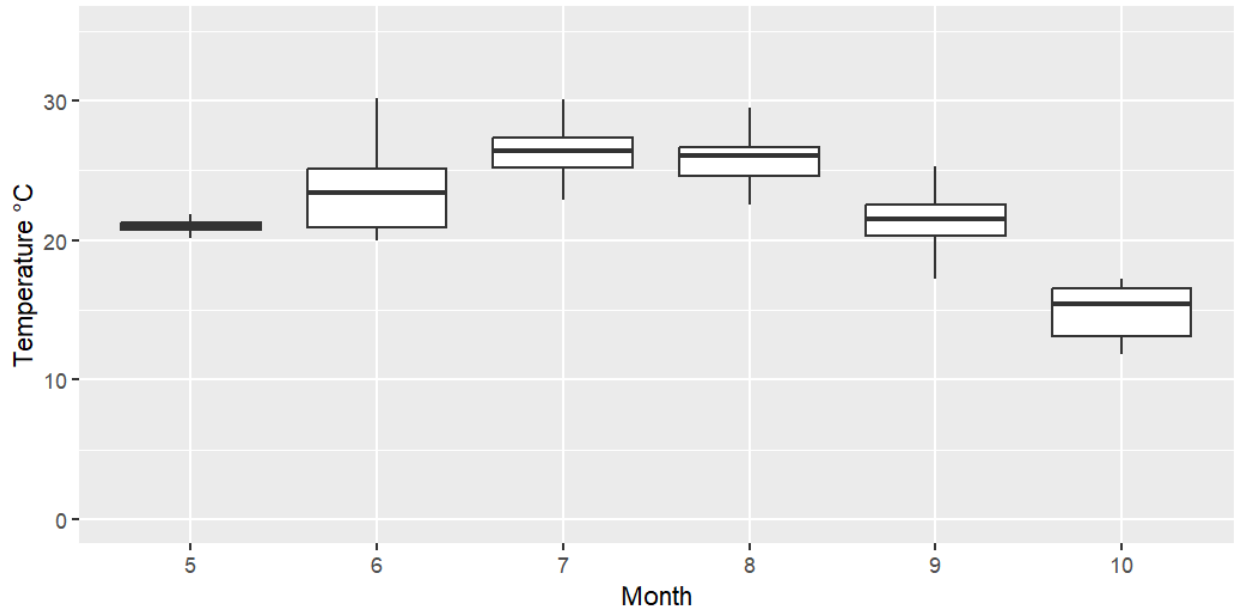


Table 15 Minimum, Maximum, and Average Temperatures at South Umpqua River at Old Highway 99 Bridge Crossing at River Mile 24.6 (30696-ORDEQ) from 2016-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	192	22.3	27.4	24.2
July	2976	20.3	29.6	24.6
August	2976	19.5	29.6	24.6
September	2880	15.0	25.4	19.9
October	432	13.4	18.7	16.0

Figure 38: Daily Maximum and Minimum Temperatures at South Umpqua River at Old Highway 99 Bridge Crossing at River Mile 24.6 (30696-ORDEQ)

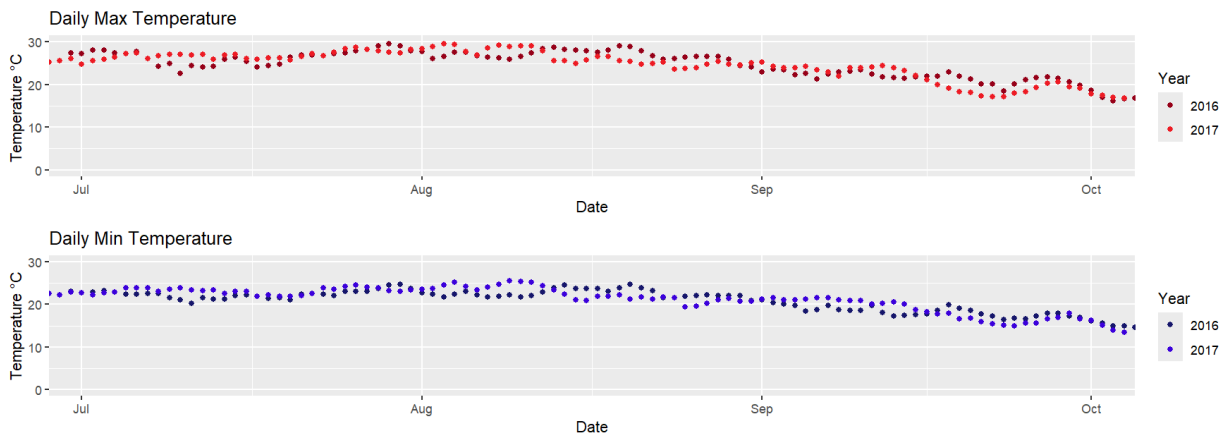


Figure 39: 7DADM Temperature at South Umpqua River at Old Highway 99 Bridge Crossing at River Mile 24.6 (30696-ORDEQ)

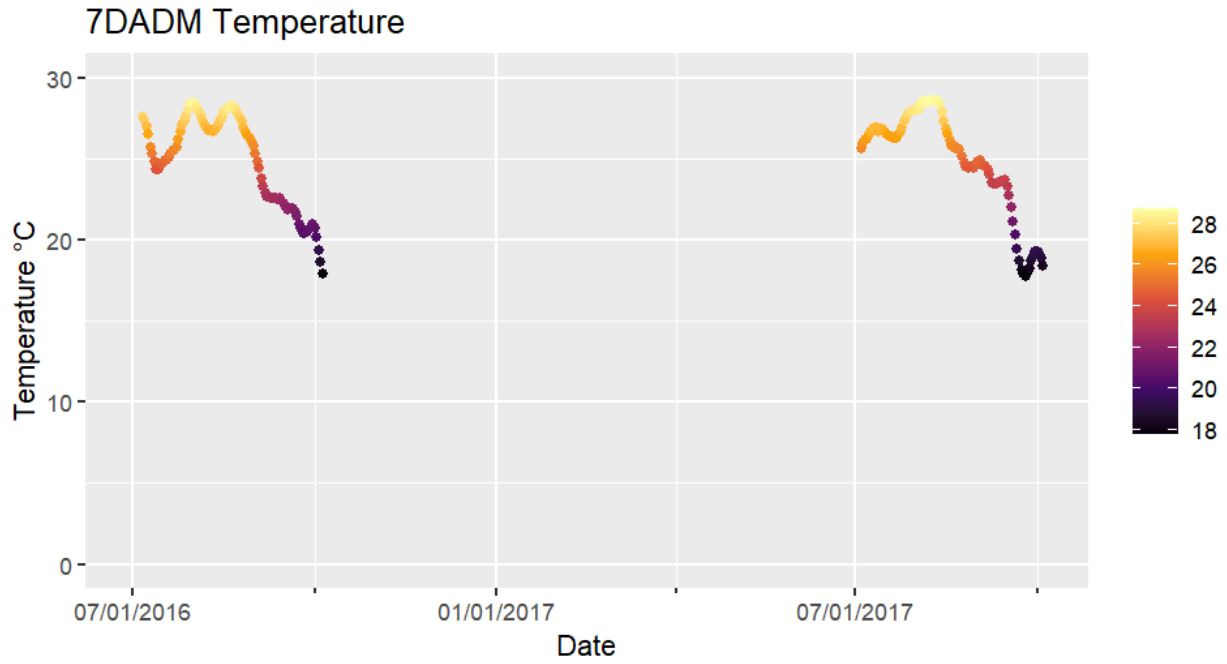


Figure 40: 7DADM Temperature Boxplot at South Umpqua River at Old Highway 99 Bridge Crossing at River Mile 24.6 (30696-ORDEQ)

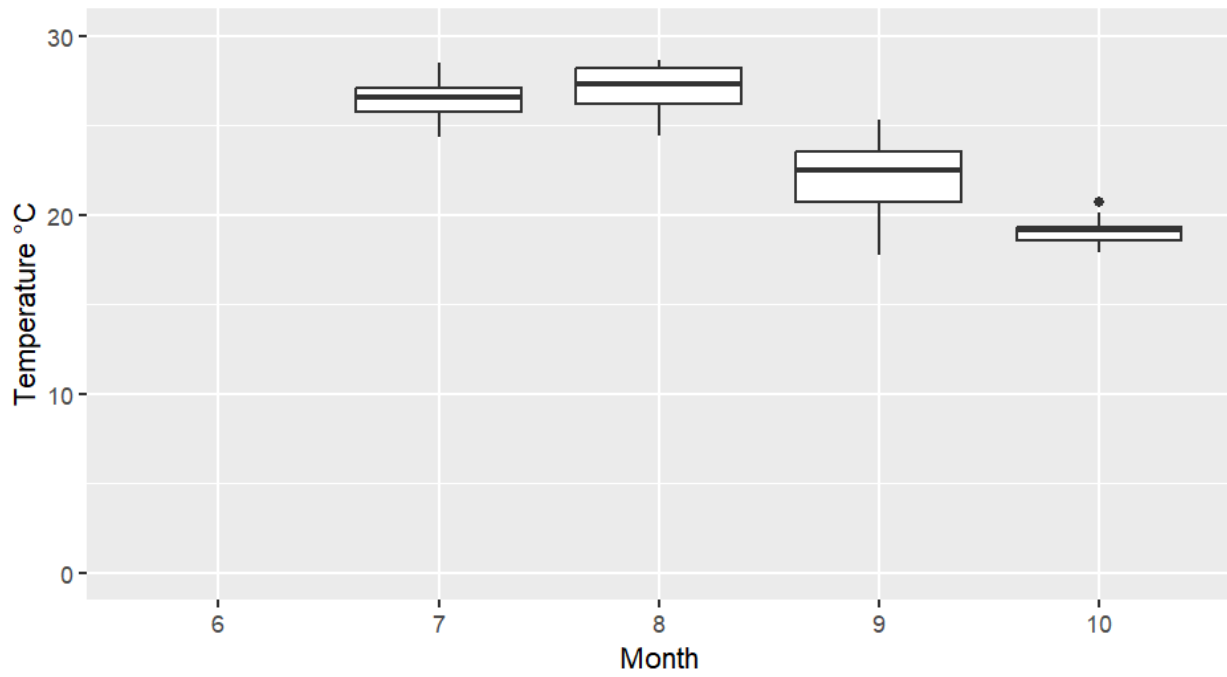


Table 16 Minimum, Maximum, and Average Temperatures at Lookingglass Creek (12277-ORDEQ) 2017-2018 and 2020-2021

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	672	15.8	22.3	18.7
June	2591	14.9	32.6	23.0
July	5952	18.8	30.5	24.7
August	5952	18.3	29.7	23.1
September	5280	13.5	24.1	18.5
October	2700	9.3	18.2	14.0

Figure 41: Daily Maximum and Minimum Temperatures at Lookingglass Creek Upstream of Applegate Creek (12277-ORDEQ)

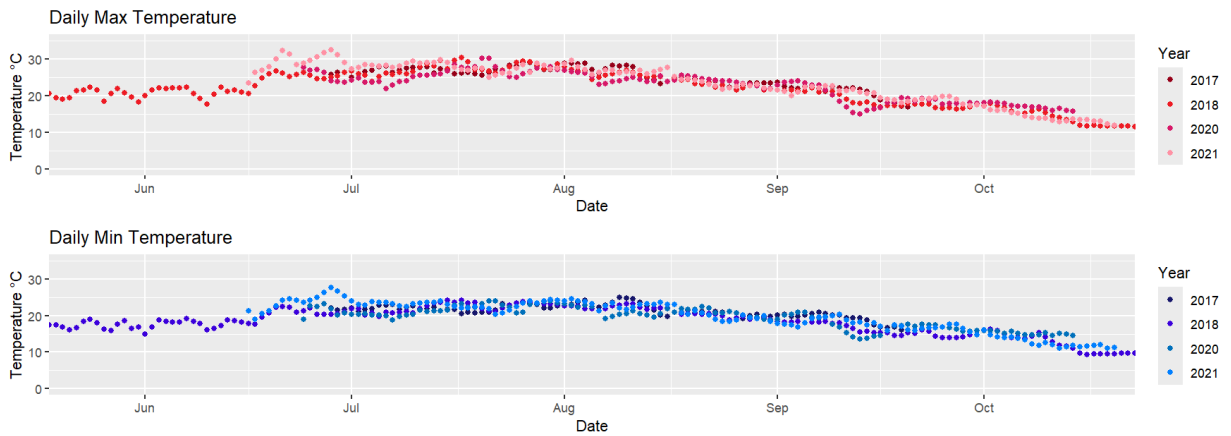


Figure 42: 7DADM Temperature at Lookingglass Creek Upstream of Applegate Creek (12277-ORDEQ)

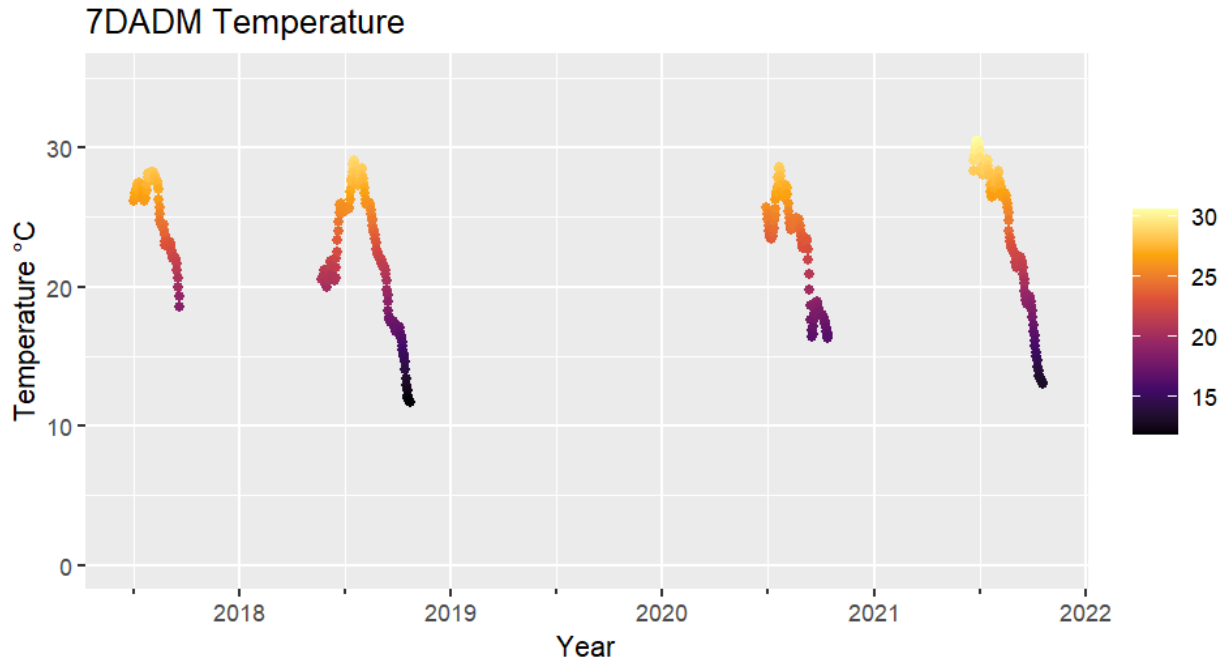


Figure 43: 7DADM Temperature Boxplot at Lookingglass Creek Upstream of Applegate Creek (12277-ORDEQ)

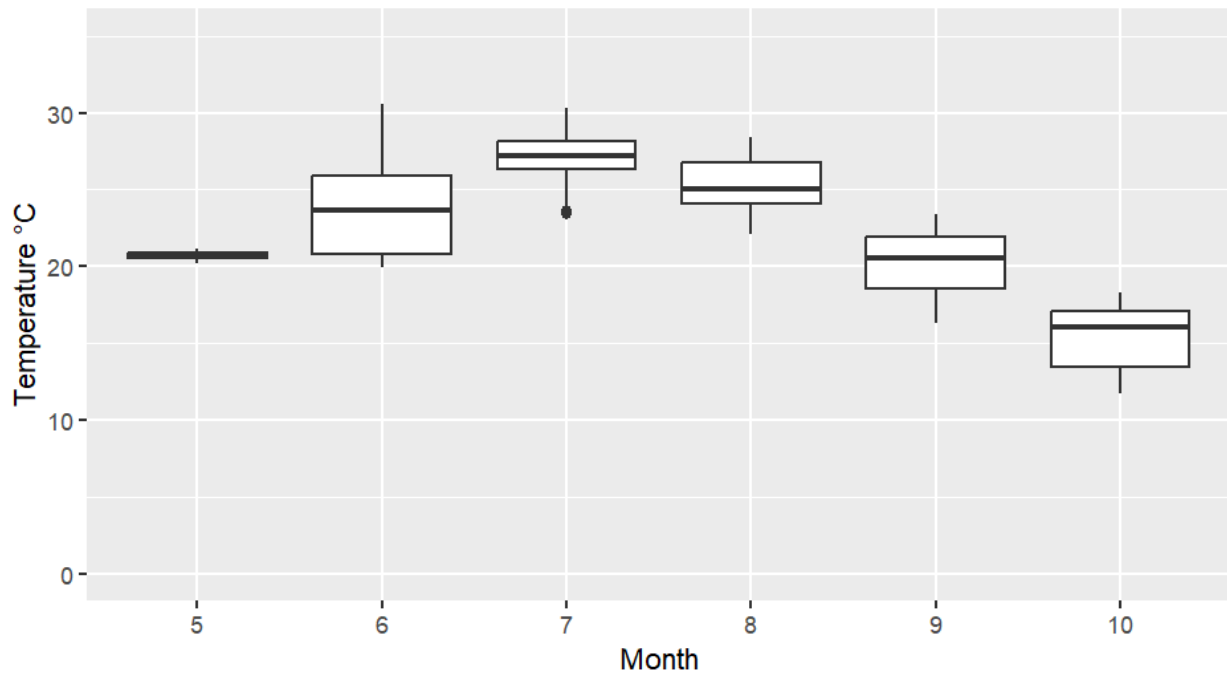


Table 17 Minimum, Maximum, and Average Temperatures at Little River at Peel, Oregon (USGS-14318000) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	310	0.5	9.0	5.9
February	282	0.8	9.7	5.8
March	310	3.3	12.0	6.7
April	300	4.4	13.9	8.5
May	310	6.2	19.2	12.2
June	300	9.1	27.1	16.6
July	310	14.2	25.6	20.6
August	310	16.1	25.2	20.4
September	300	9.6	22.8	15.9
October	310	2.4	15.6	11.1
November	300	1.1	13.1	7.3
December	310	1.6	10.3	6.1

Figure 44: Daily Maximum and Minimum Temperatures at Little River at Peel, Oregon (USGS-14318000)

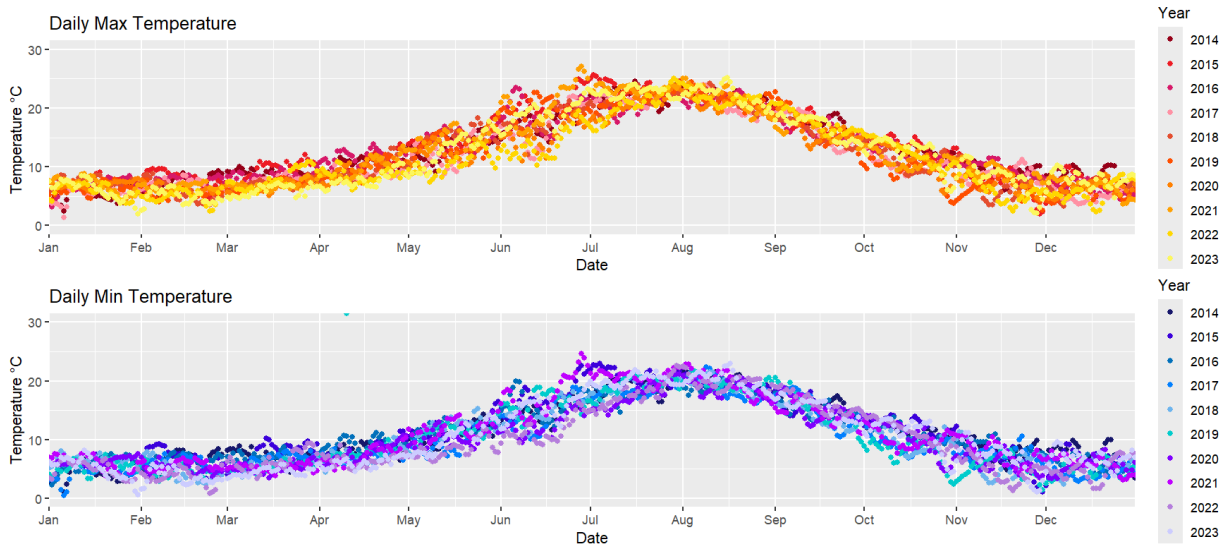


Figure 45: 7DADM Temperature at Little River at Peel, Oregon (USGS-14318000)

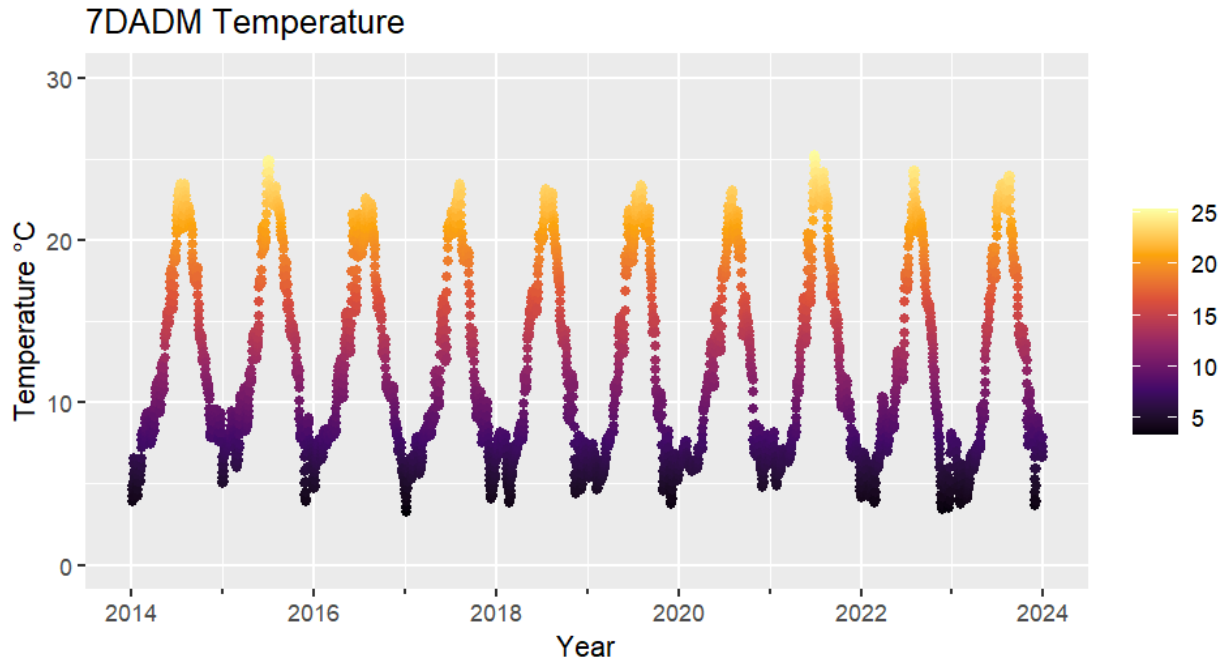
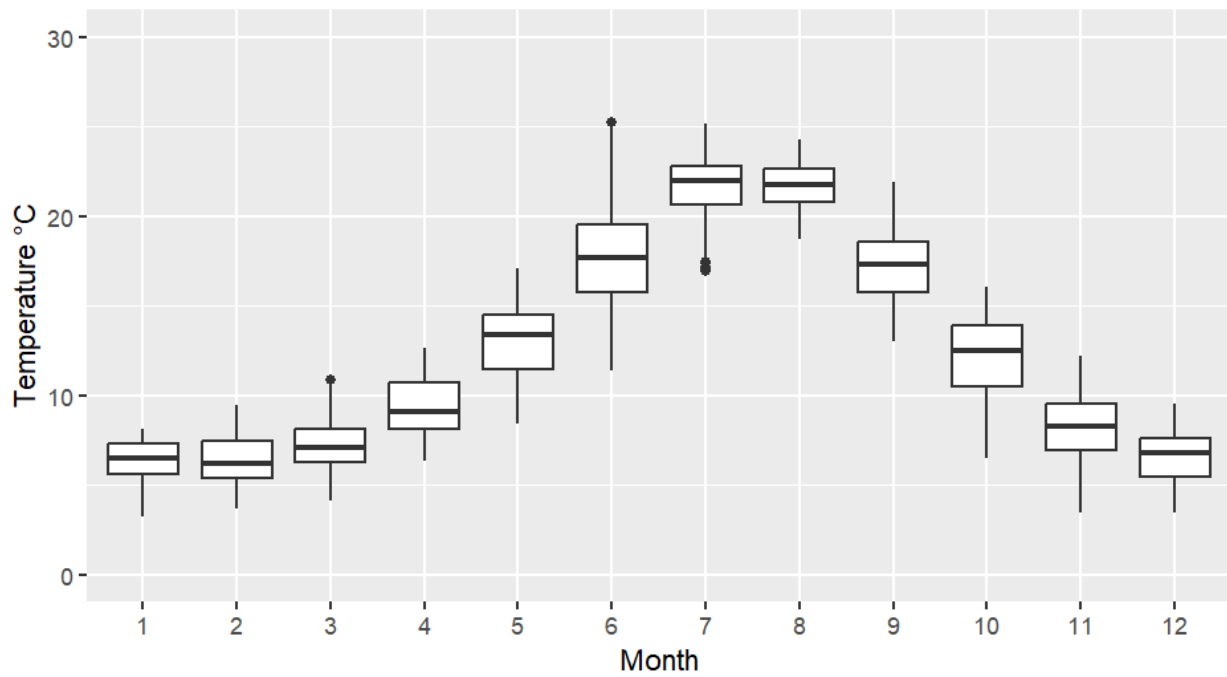


Figure 46: 7DADM Temperature Boxplot at Little River at Peel, Oregon (USGS-14318000)



North Umpqua River Basin

Table 18 Minimum, Maximum, and Average Temperatures at Upper Steamboat Below Little Rock, Headwater (UmpNF-082) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	6816	7.6	24.0	13.5
July	14495	10.1	24.8	16.8
August	14879	11.2	23.7	17.1
September	12240	9.0	21.1	14.1
October	192	7.0	14.8	10.4

Figure 47: Daily Maximum and Minimum Temperatures at Upper Steamboat Below Little Rock, Headwater (UmpNF-082)

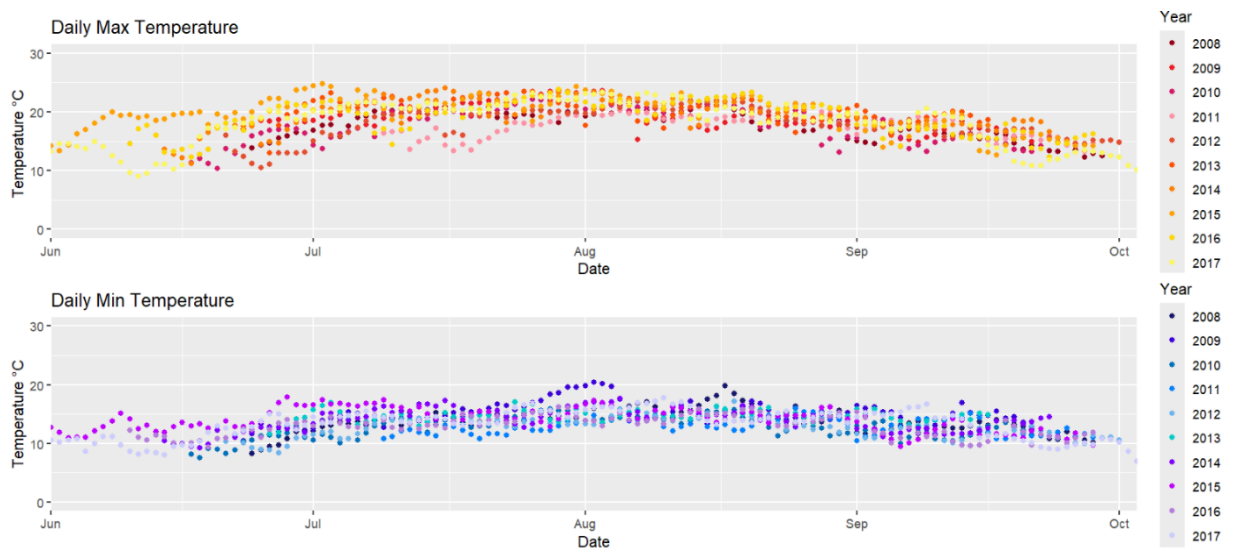


Figure 48: 7DADM Temperature at Upper Steamboat Below Little Rock, Headwater (UmpNF-082)

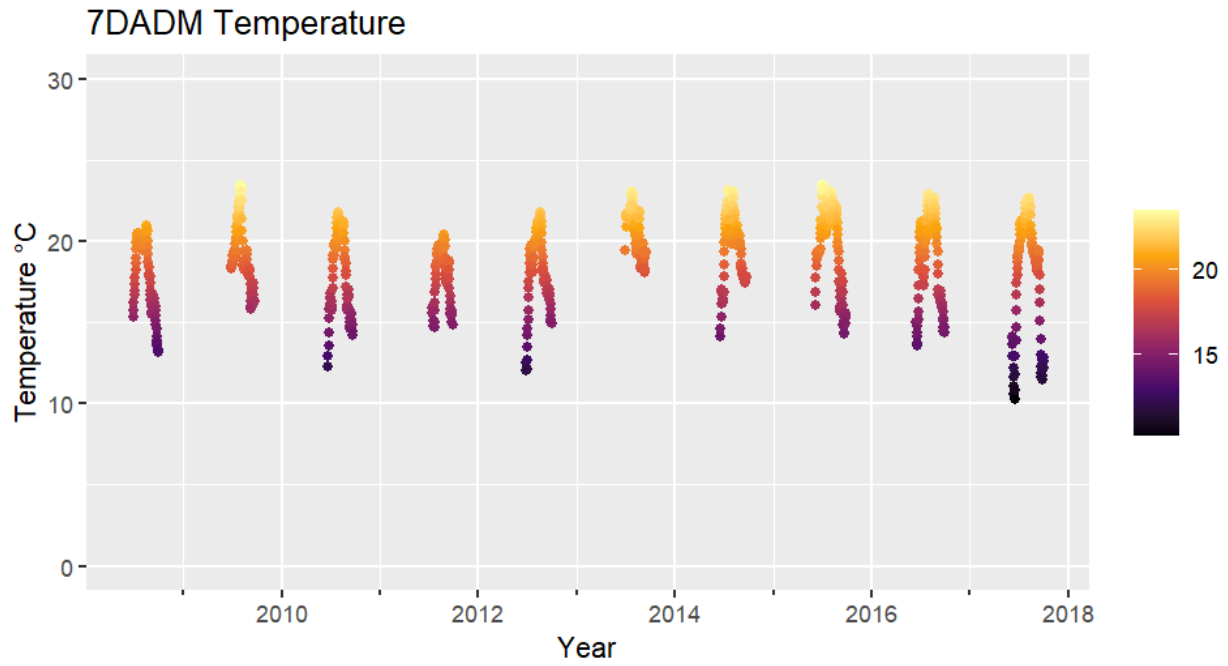


Figure 49: 7DADM Temperature Boxplot at Upper Steamboat Below Little Rock, Headwater (UmpNF-082)

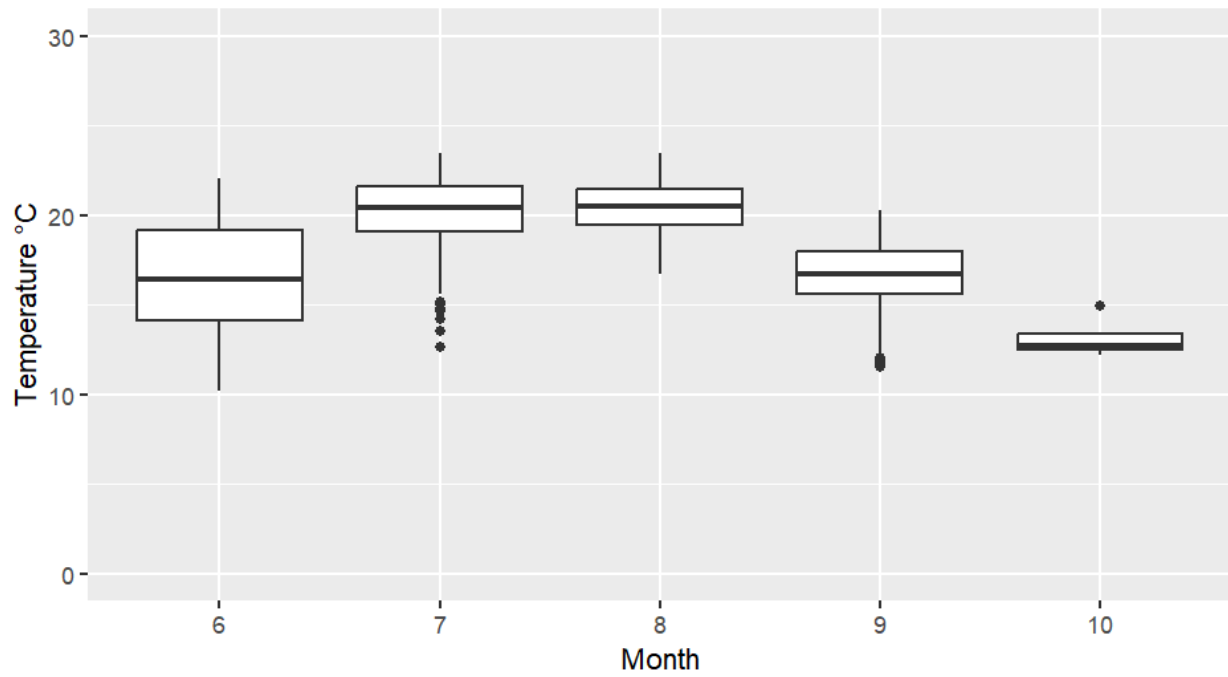


Table 19 Minimum, Maximum, and Average Temperatures at North Umpqua Above Copeland Creek Near Toketee Falls (USGS-14316500) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	28602	1.4	7.1	4.2
February	27035	1.4	7.2	4.5
March	29392	2.5	8.7	5.3
April	28648	3.2	10.6	6.5
May	29698	4.8	13.3	8.7
June	28454	5.7	16.9	11.1
July	29554	9.5	16.5	13.3
August	29724	10.1	15.6	12.9
September	28752	8.2	14.1	10.9
October	29730	4.2	11.2	8.2
November	28740	1.6	9.2	5.7
December	28704	0.8	7.3	4.1

Figure 50: Daily Maximum and Minimum Temperatures at North Umpqua Above Copeland Creek Near Toketee Falls (USGS-14316500)

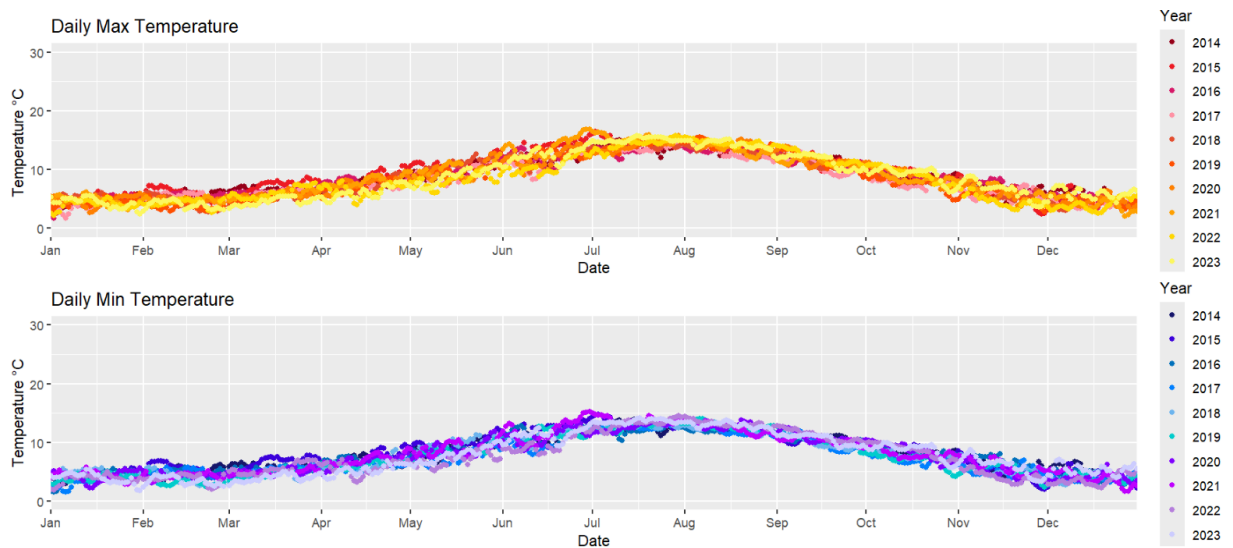


Figure 51: 7DADM at North Umpqua Above Copeland Creek Near Toketee Falls (USGS-14316500)

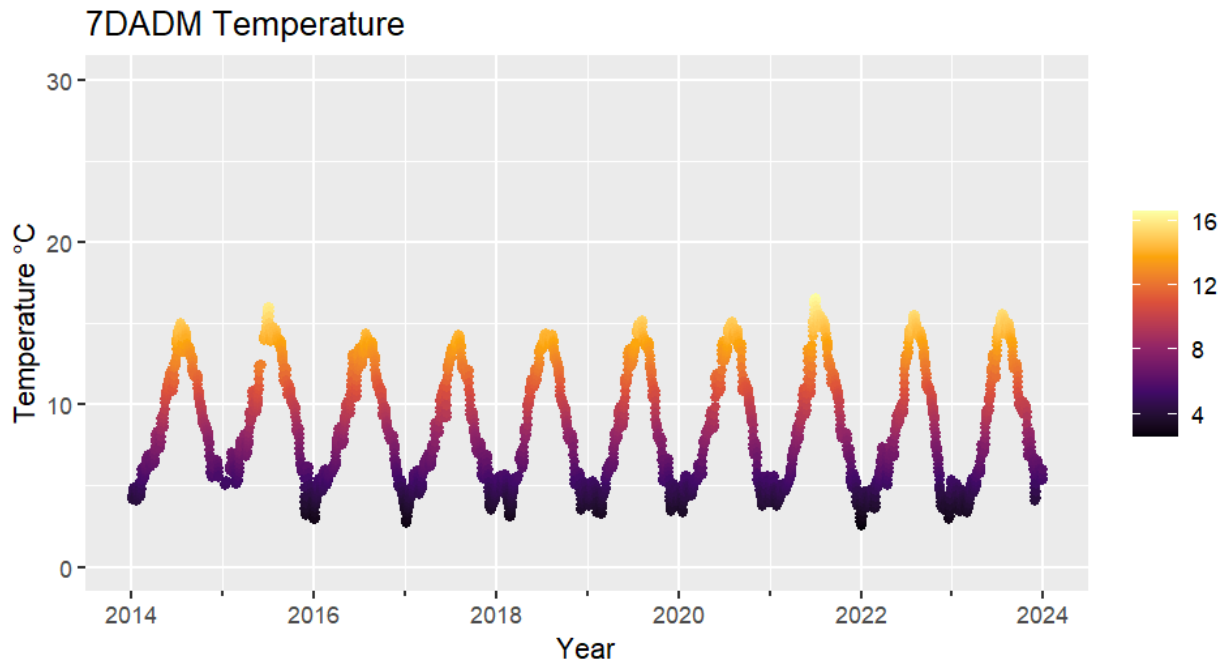


Figure 52: 7DADM at North Umpqua Above Copeland Creek Near Toketee Falls (USGS-14316500)

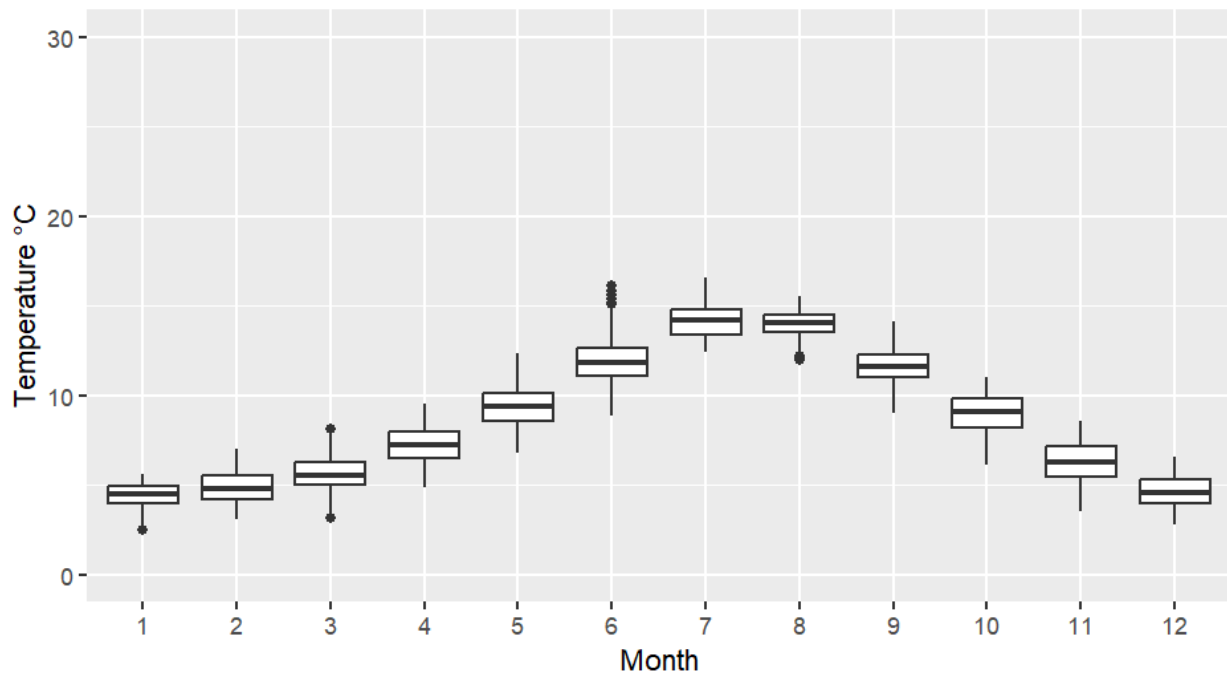


Table 20 Minimum, Maximum, and Average Temperatures at North Umpqua River at Winchester Oregon (USGS-14319500) from 2016-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	23799	1.1	9.5	6.3
February	21276	1.7	9.4	6.1
March	20801	4.5	12.3	7.4
April	20158	6.0	15.9	9.7
May	20826	7.3	20.9	13.6
June	20160	10.4	29.1	18.2
July	20832	17.2	27.1	22.3
August	20832	16.5	27.3	21.9
September	21066	12.0	23.8	17.2
October	23803	4.9	17.6	12.0
November	23071	2.9	12.2	7.9
December	23808	2.5	10.2	6.0

Figure 53: Daily Maximum and Minimum Temperatures at North Umpqua River at Winchester Oregon (USGS-14319500)

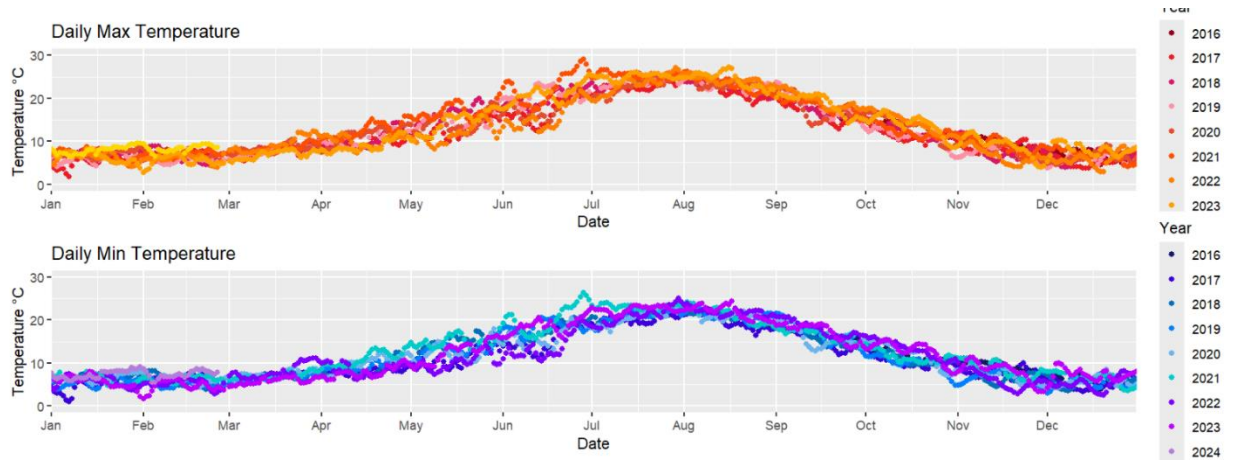


Figure 54: 7DADM Temperature at North Umpqua River at Winchester Oregon (USGS-14319500)

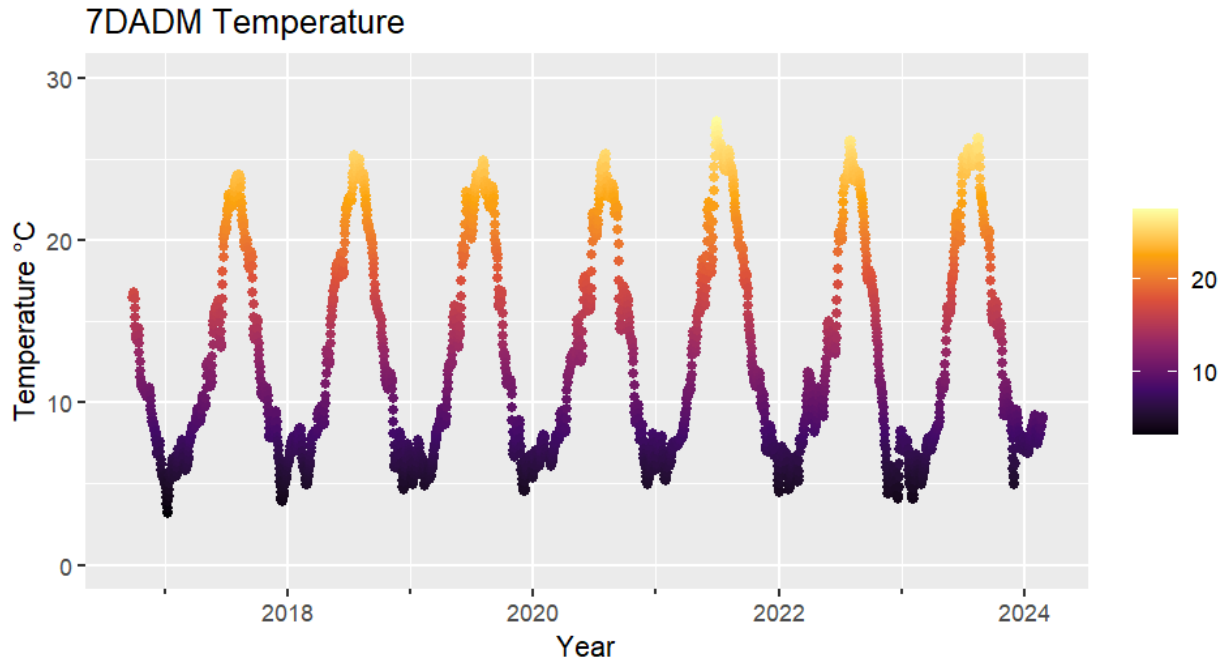


Figure 55: 7DADM Temperature Boxplot at north Umpqua River at Winchester Oregon (USGS-14319500)

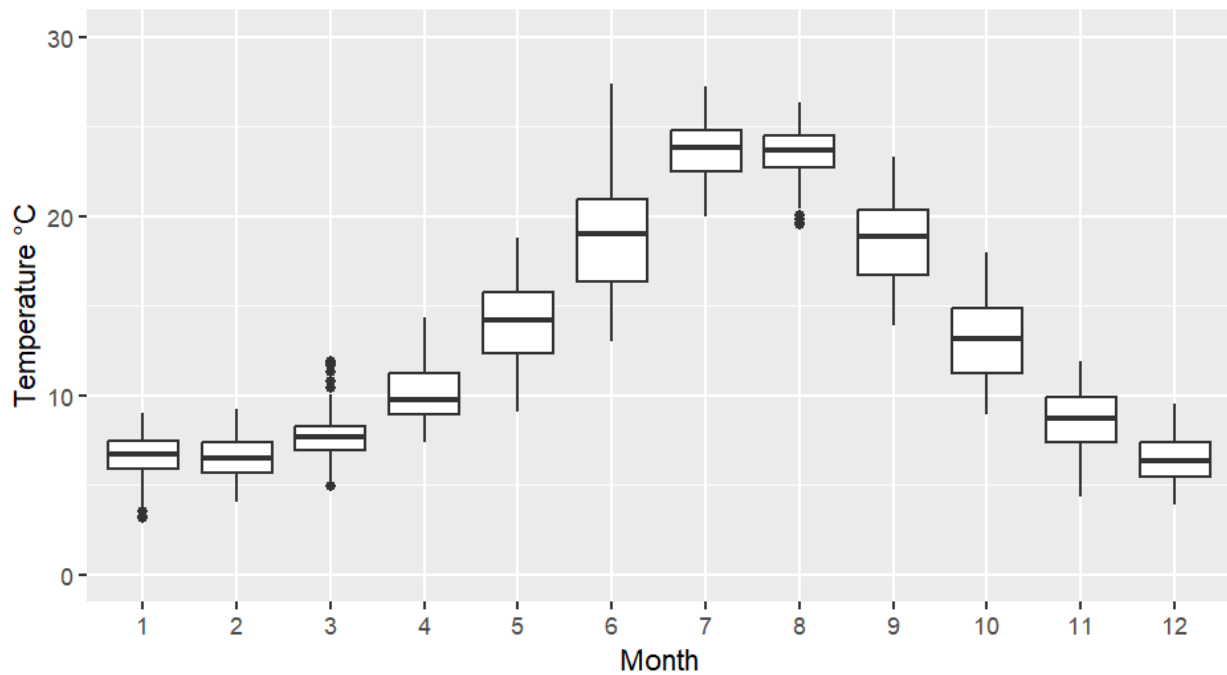


Table 21 Minimum, Maximum, and Average Temperatures at Sutherlin Creek at Del Rio Road (41104-ORDEQ) from 2018

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	1104	14.5	24.1	18.4
June	1440	14.3	28.4	20.9
July	1488	16.1	29.8	21.6
August	1488	14.4	21.3	17.9
September	1440	11.2	21.5	15.5
October	96	15.9	19.8	17.8

Figure 56: Daily Maximum and Minimum Temperatures at Sutherlin Creek at Del Rio Road (41104-ORDEQ)

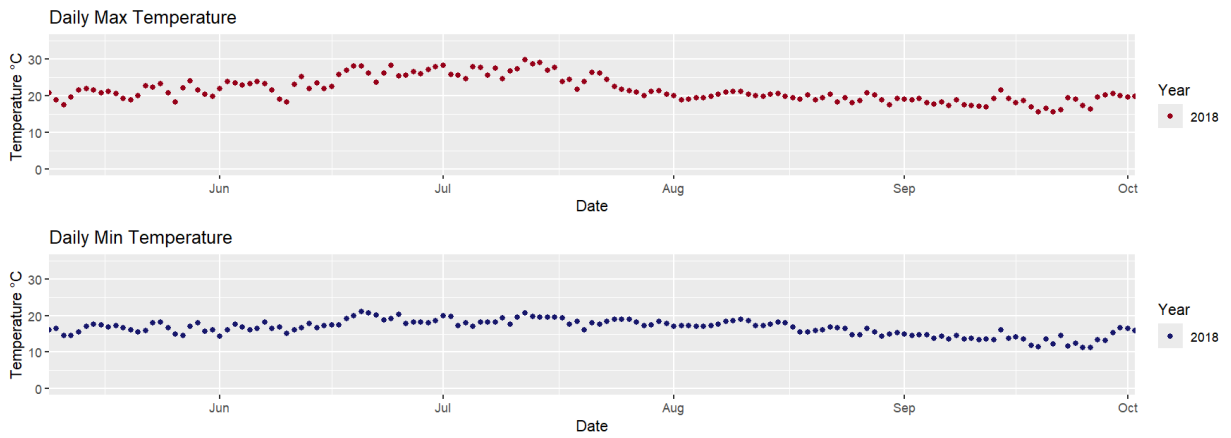


Figure 57: 7DADM Temperature at Sutherlin Creek at Del Rio Road (41104-ORDEQ)

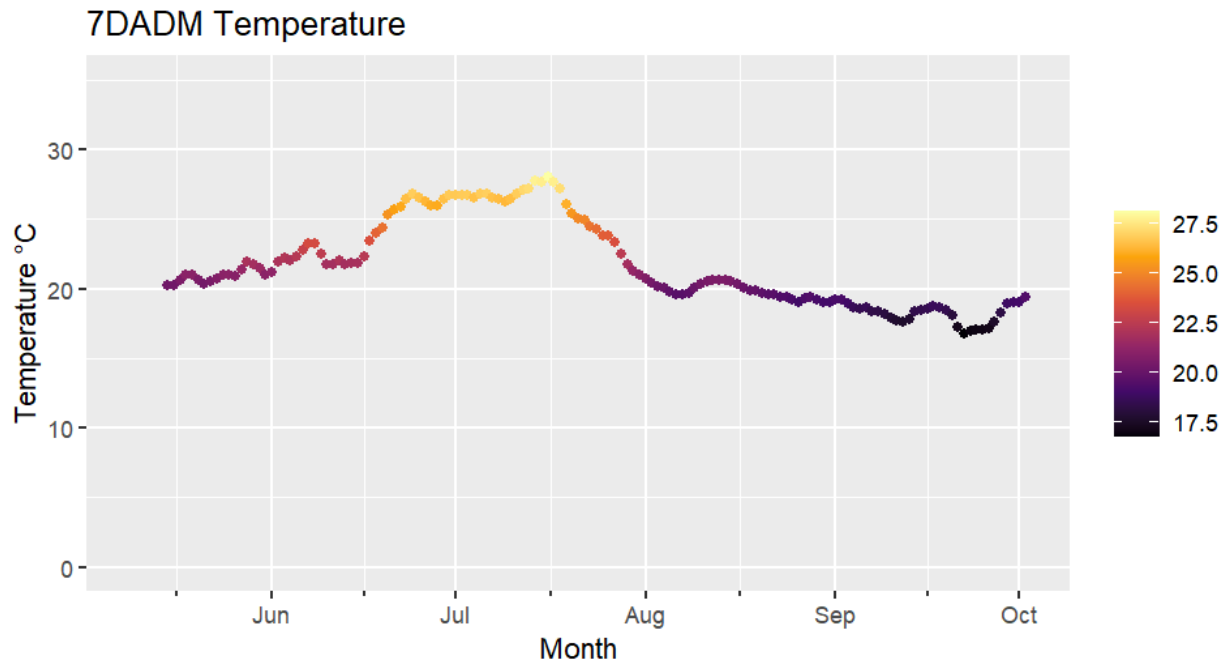


Figure 58: 7DADM Temperature Boxplot at Sutherlin Creek at Del Rio Road (41104-ORDEQ)

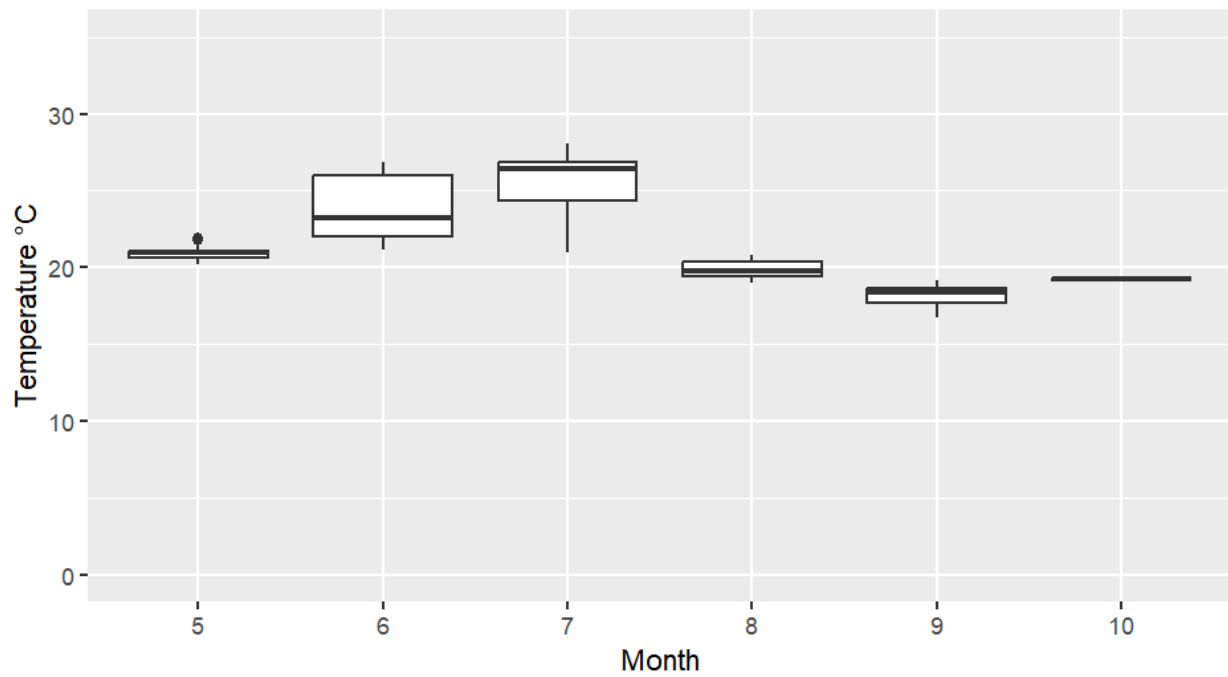


Table 22 Minimum, Maximum, and Average Temperatures at Rock Creek at Mouth (32477-ORDEQ) from 2009, 2018, and 2021-2022

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	1228	10.0	20.8	14.8
June	2640	10.8	27.4	17.6
July	4191	14.9	26.4	20.2
August	4732	14.5	24.9	19.5
September	4975	11.2	22.3	15.8
October	636	8.7	16.2	12.4

Figure 59: Daily Maximum and Minimum Temperatures at Rock Creek at Mouth (32477-ORDEQ)

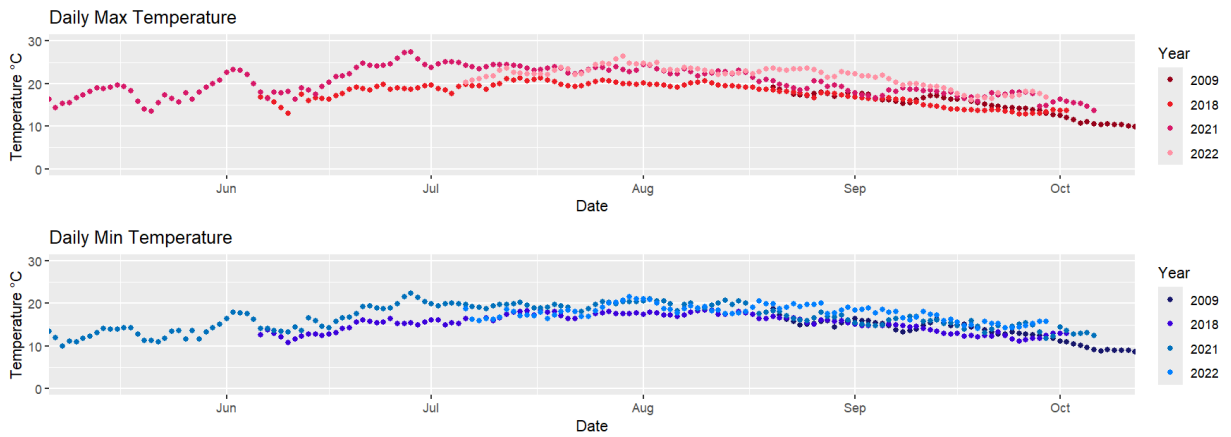


Figure 60: 7DADM Temperature at Rock Creek at Mouth (32477-ORDEQ)

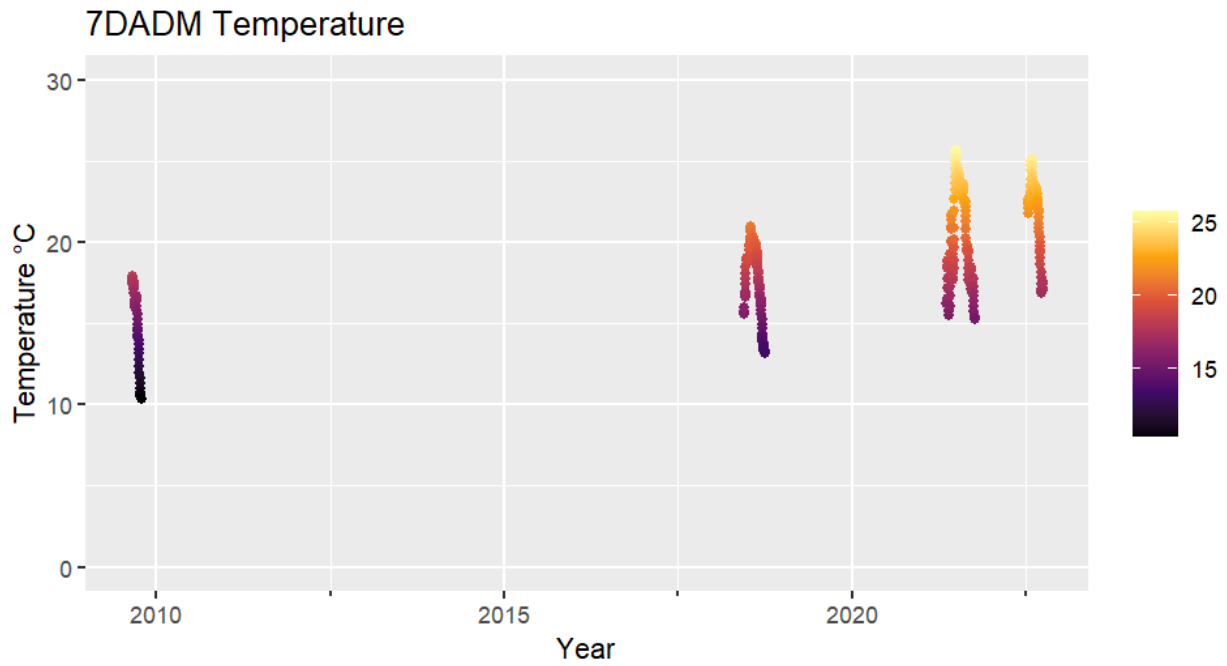


Figure 61: 7DADM Temperature Boxplot at Rock Creek at Mouth (32477-ORDEQ)

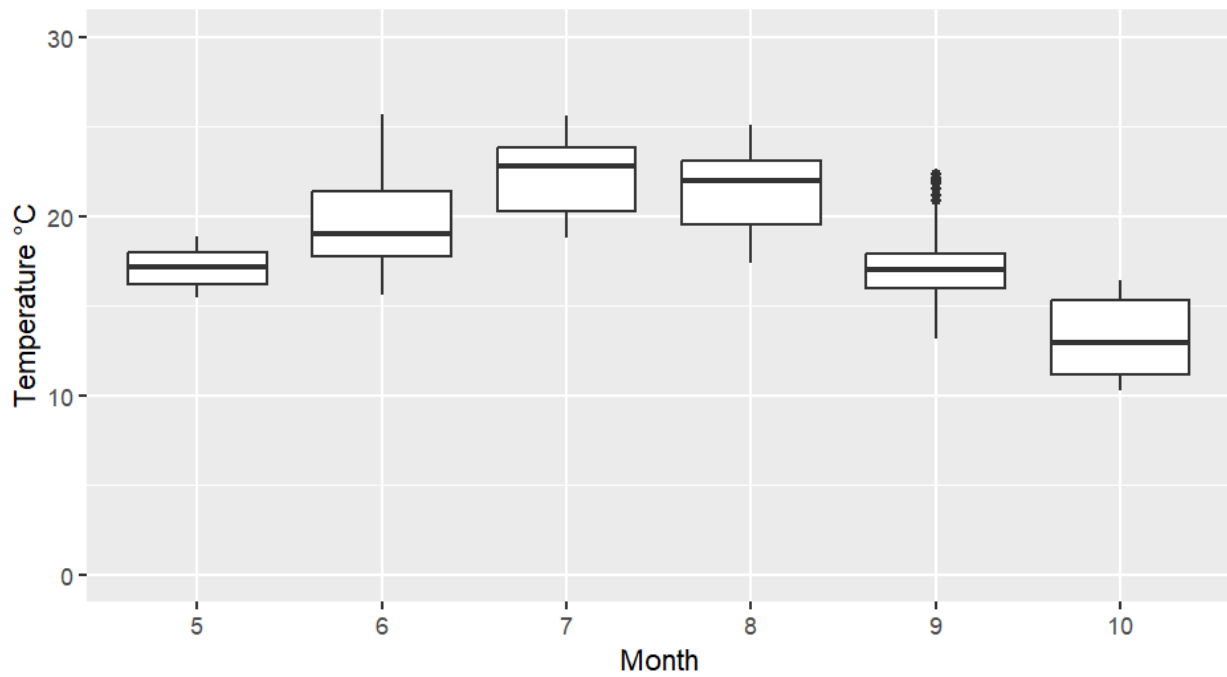
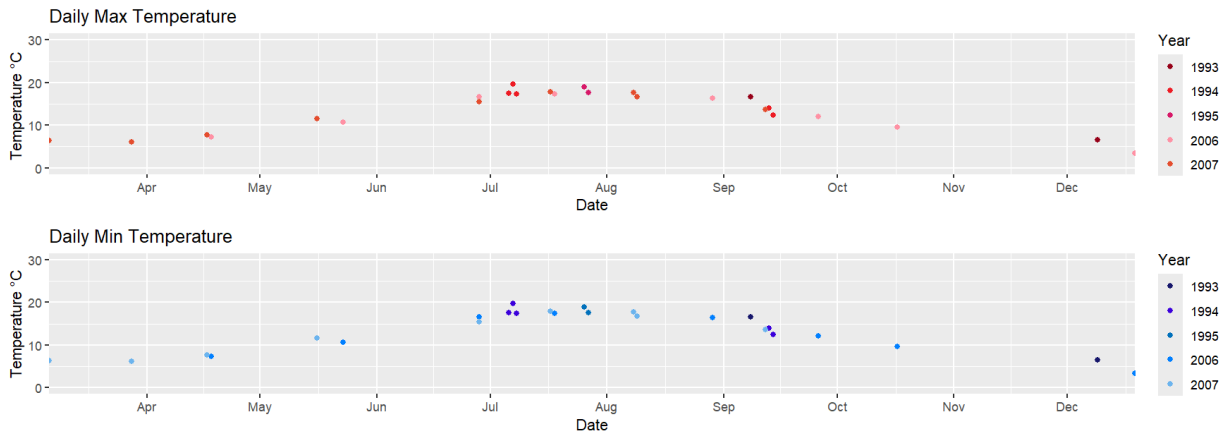


Table 23 Minimum, Maximum, and Average Temperatures at North Umpqua River Above Rock Creek Near Glide, Oregon (USGS-14317500) from 1993-1995 and 2006-2007

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
March	2	6.1	6.4	6.3
April	2	7.3	7.7	7.5
May	3	10.7	11.6	11.0
June	2	15.5	16.6	16.1
July	7	17.4	19.7	18.1
August	4	16.4	17.7	17.1
September	5	12.1	16.6	13.7
October	1	9.6	9.6	9.6
December	2	3.4	6.5	5.0

Figure 62: Daily Maximum and Minimum Temperatures at North Umpqua River Above Rock Creek Near Glide Oregon (USGS-14317500)



7DADM Temperature Figures at North Umpqua River Above Rock Creek Near Glide Oregon (USGS-14317500) do not exist because the data doesn't contain 7 consecutive days, which are needed to calculate 7DADM.

Table 24 Minimum, Maximum, and Average Temperatures at Rock Creek Near Glide (USGS-14317600) from 2021-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	5951	2.1	9.1	6.5
February	5376	2.1	8.0	5.5
March	5940	3.7	13.5	7.1
April	8575	5.2	16.3	8.8
May	8920	7.0	20.9	12.8
June	8637	9.6	27.7	16.9
July	8928	14.7	26.4	20.7
August	8927	15.8	26.8	20.8
September	8640	11.6	23.2	17.4
October	8920	6.7	18.8	13.0
November	8652	3.6	12.9	8.5
December	6183	2.6	9.9	6.9

Figure 63: Daily Maximum and Minimum Temperatures at Rock Creek Near Glide Oregon (USGS-14317600)

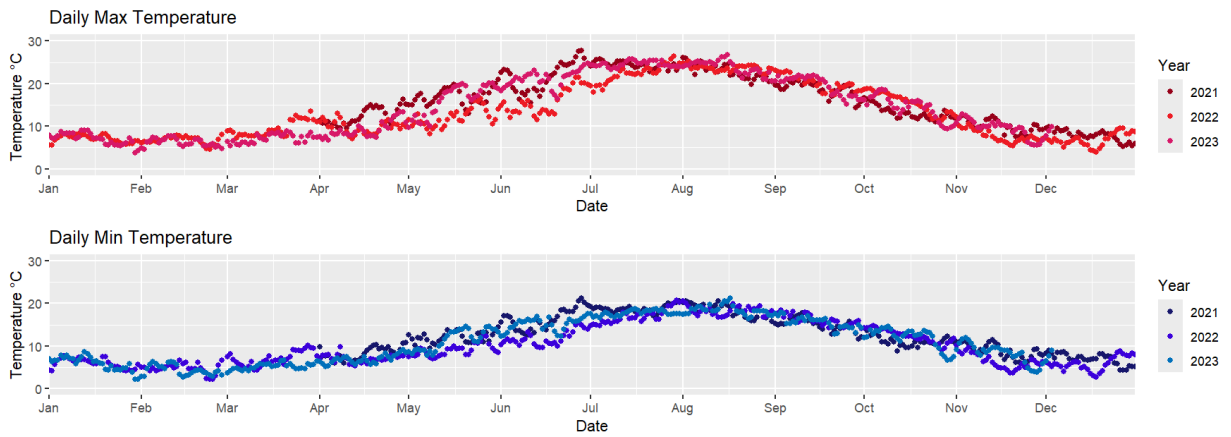


Figure 64: 7DADM Temperature at Rock Creek Near Glide Oregon (USGS-14317600)

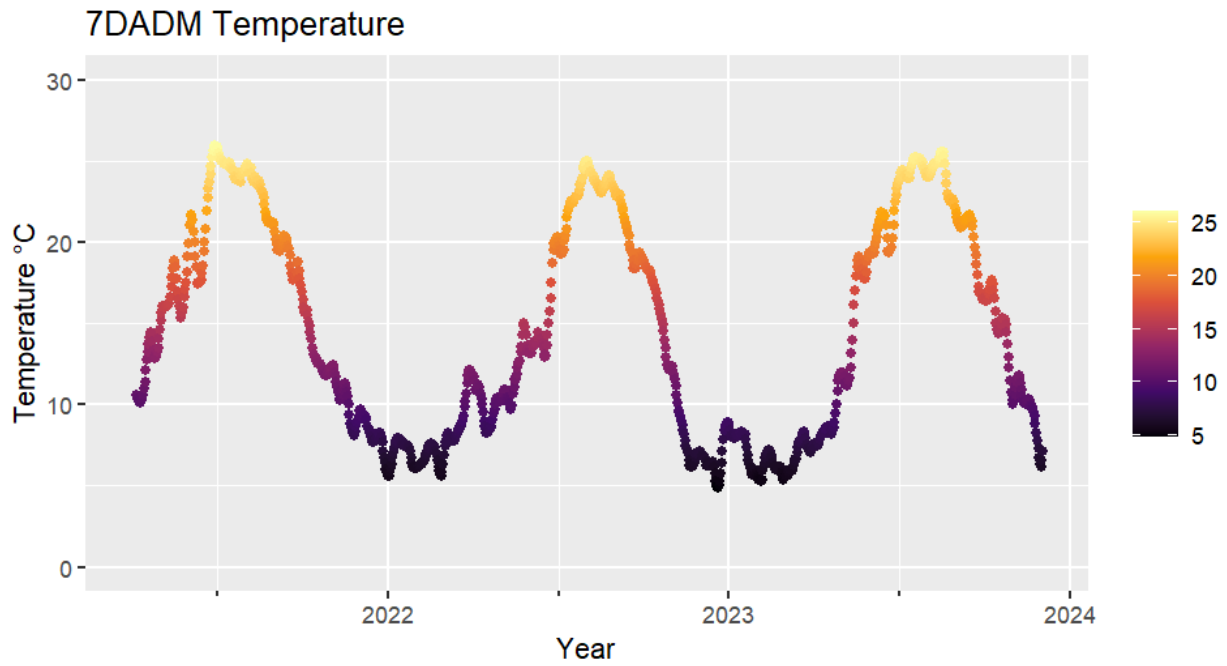


Figure 65: 7DADM Temperature Boxplot at Rock Creek Near Glide Oregon (USGS-14317600)

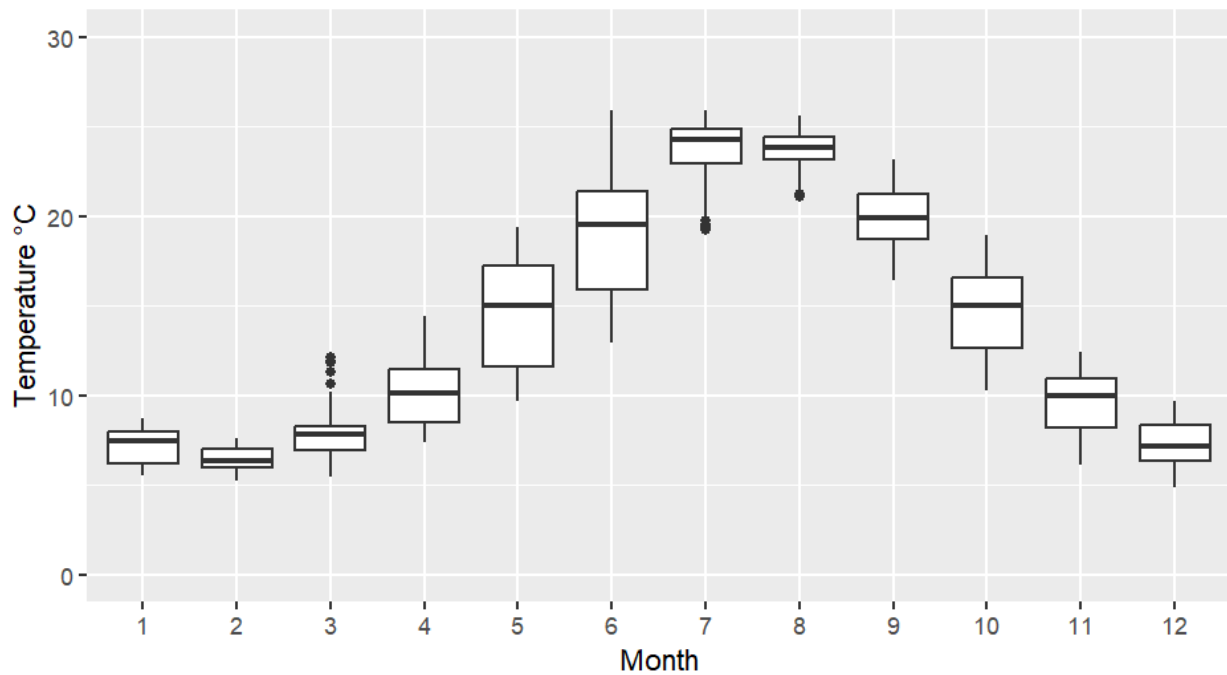


Table 25 Minimum, Maximum, and Average Temperatures at North Umpqua River Near Idleyld Park, Oregon (USGS-14317450) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	19284	0.4	8.7	5.3
February	17324	1.8	8.9	5.3
March	19020	3.2	10.6	6.5
April	18470	4.7	13.0	8.2
May	19010	6.3	16.7	11.2
June	18708	9.0	23.7	15.0
July	18803	13.5	22.7	18.1
August	19145	12.9	21.5	17.4
September	20023	9.6	18.7	13.6
October	20732	3.8	13.8	10.0
November	19839	1.2	10.7	6.8
December	20823	1.6	9.5	5.6

Figure 66: Daily Maximum and Minimum Temperatures at North Umpqua River Near Idleyld Park, Oregon (USGS-14317450)

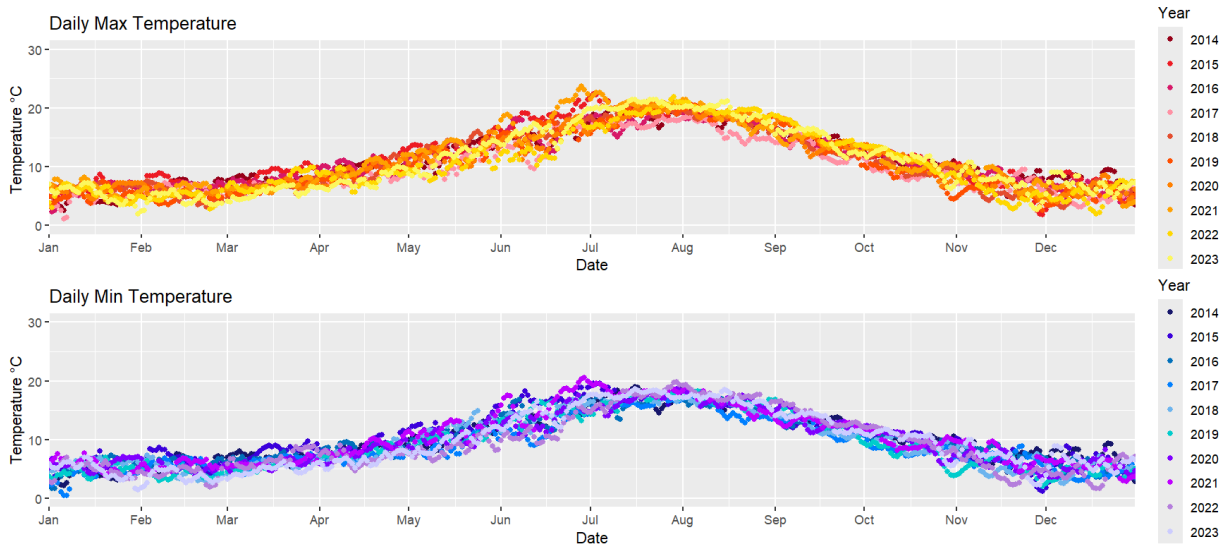


Figure 67: 7DADM Temperature at North Umpqua River Near Idlelyld Park, Oregon (USGS-14317450)

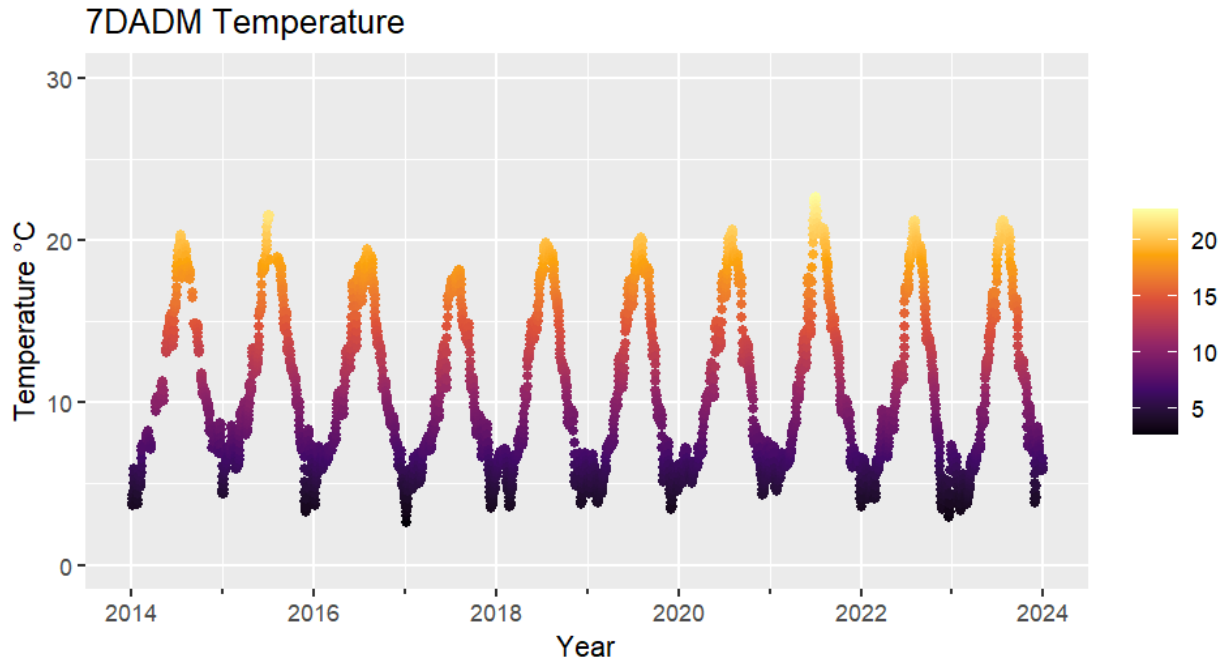


Figure 68: 7DADM Temperature Boxplot at North Umpqua River Near Idlelyld Park, Oregon (USGS-14317450)

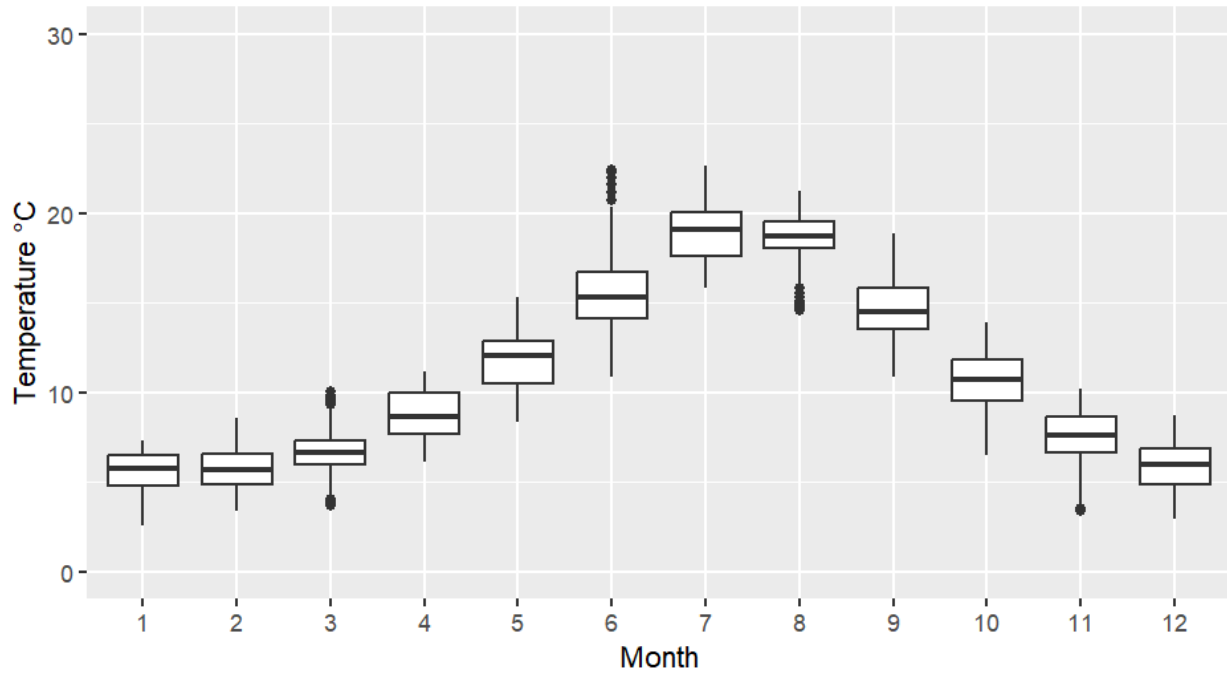


Table 26 Minimum, Maximum, and Average Temperatures at Rock Creek Upstream of East Fork Rock Creek (23874-ORDEQ) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	7392	1.2	9.4	6.1
February	8160	2.8	9.3	6.4
March	8916	3.7	11.2	6.7
April	9456	4.9	13.3	8.2
May	10484	6.5	17.9	10.6
June	11089	8.8	28.0	13.9
July	11902	11.6	24.4	17.3
August	11904	12.2	26.1	17.2
September	11692	9.6	23.6	14.6
October	9917	3.8	17.6	11.0
November	8652	2.1	11.8	7.8
December	10152	3.2	10.3	6.7

Figure 69: Daily Maximum and Minimum Temperatures at Rock Creek Upstream of East Fork Rock Creek (23874-ORDEQ)

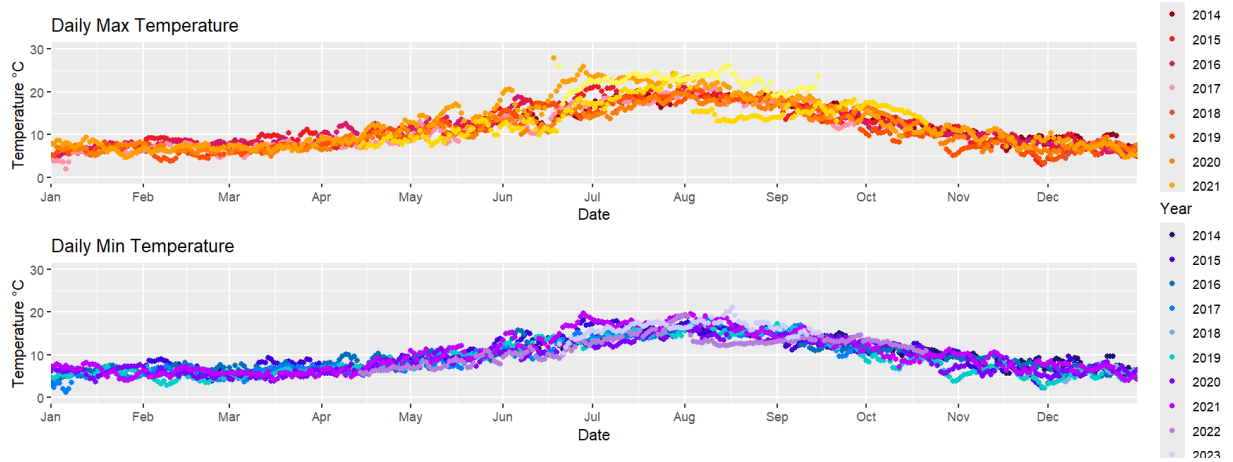


Figure 70: 7DADM Temperature at Rock Creek Upstream of East Rock Creek (23874-ORDEQ)

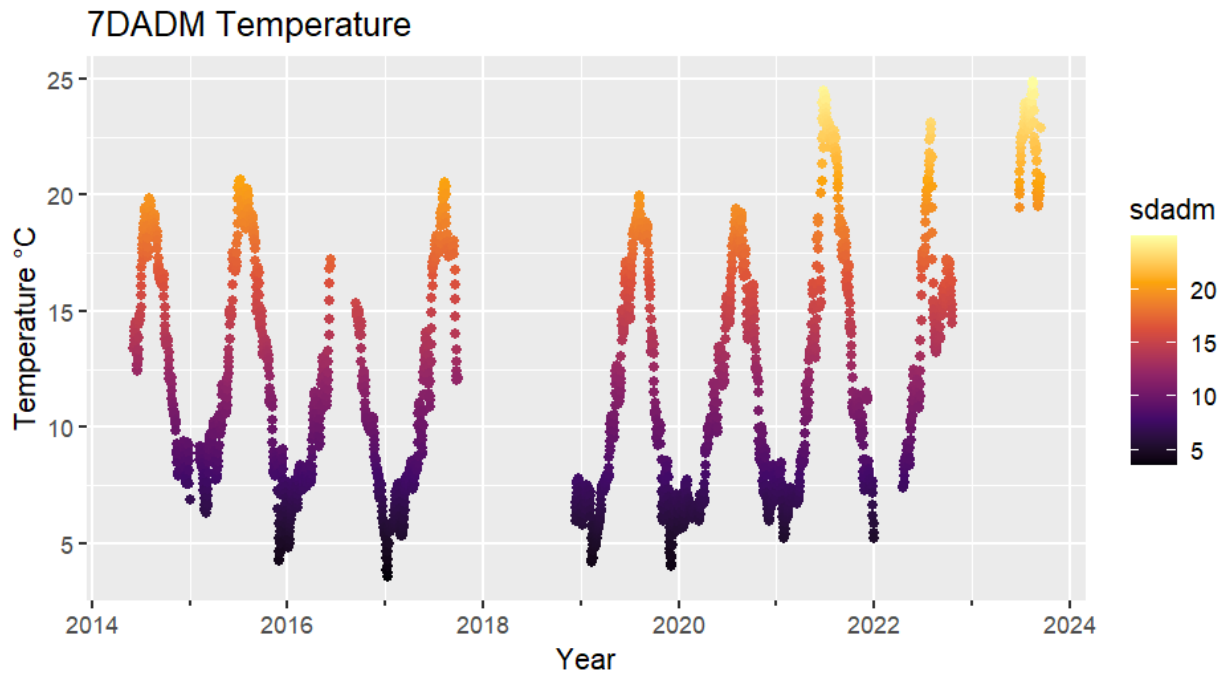


Figure 71: 7DADM Temperature Boxplot at Rock Creek Upstream of East Rock Creek (23874-ORDEQ)

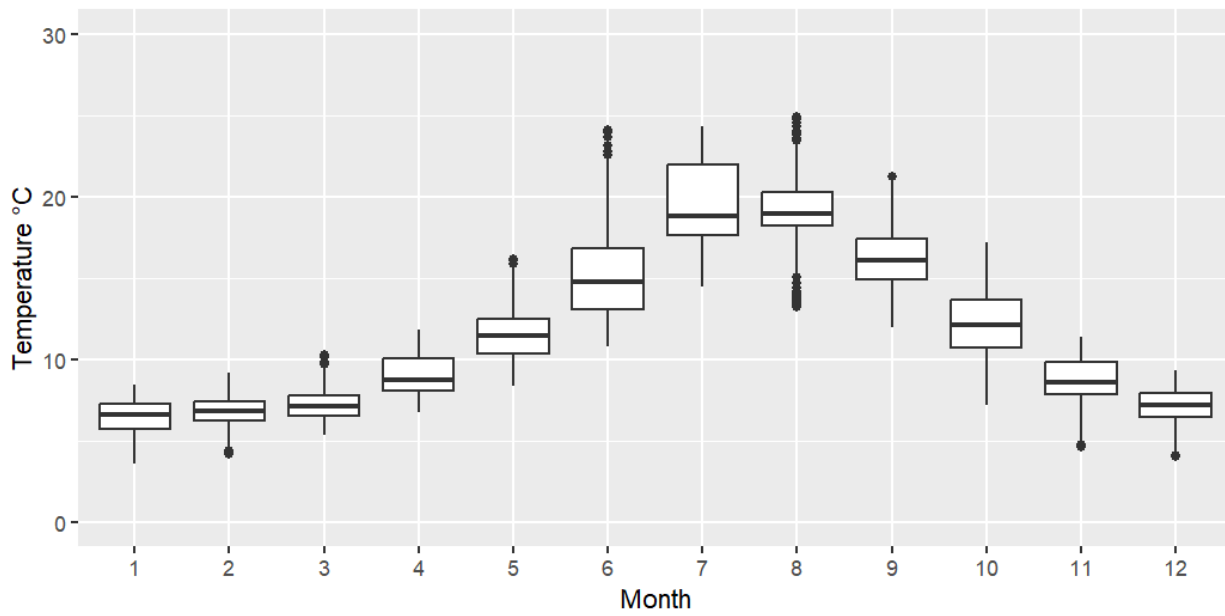


Table 27 Minimum, Maximum, and Average Temperatures at Canton Creek at the Mouth (UmpNF-016) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	6144	9.7	23.6	16.0
July	13008	12.3	24.6	19.0
August	13392	13.6	23.4	18.9
September	10272	10.4	20.5	15.8

Figure 72: Daily Maximum and Minimum Temperatures at Canton Creek at the Mouth (UmpNF-016)

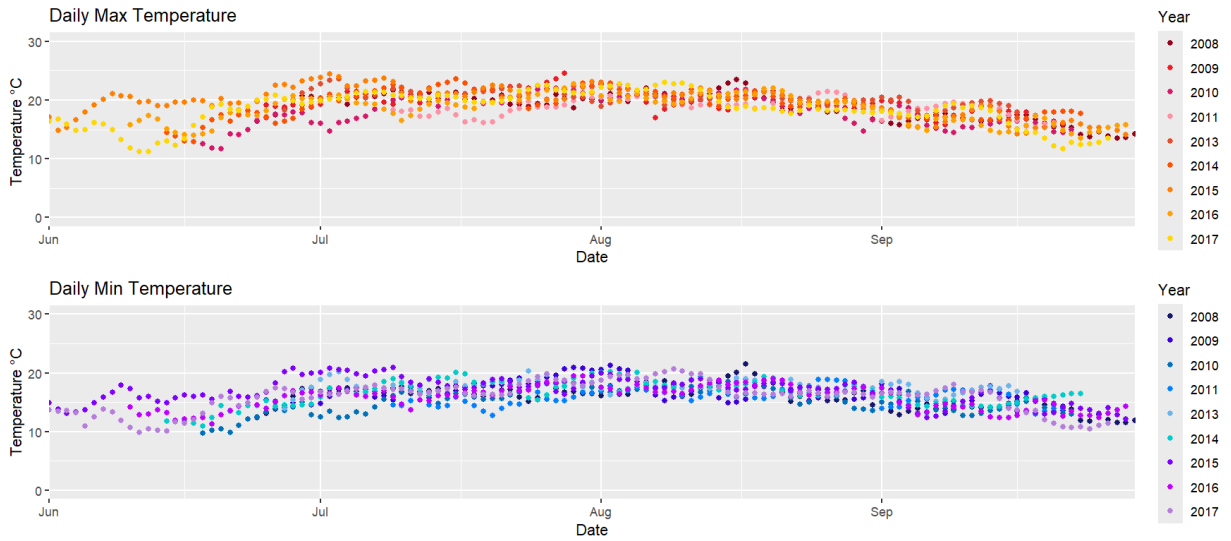


Figure 73: 7DADM Temperature at Canton Creek at the Mouth (UmpNF-016)

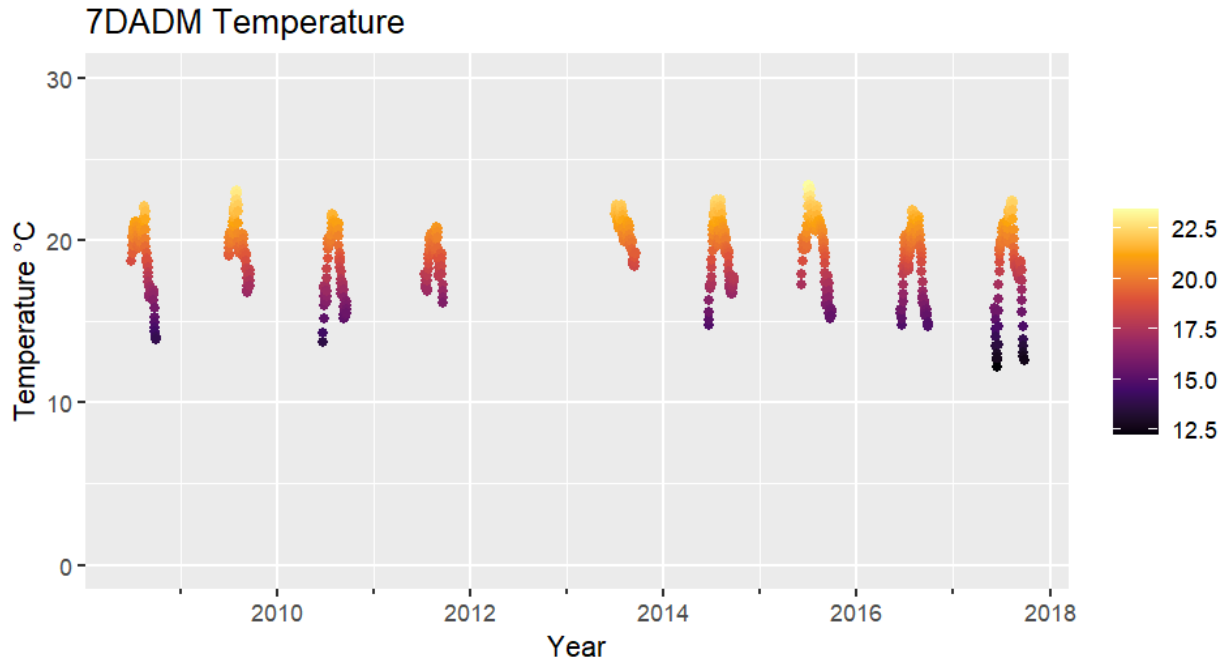


Figure 74: 7DADM Temperature Boxplot at Canton Creek at the Mouth (UmpNF-016)

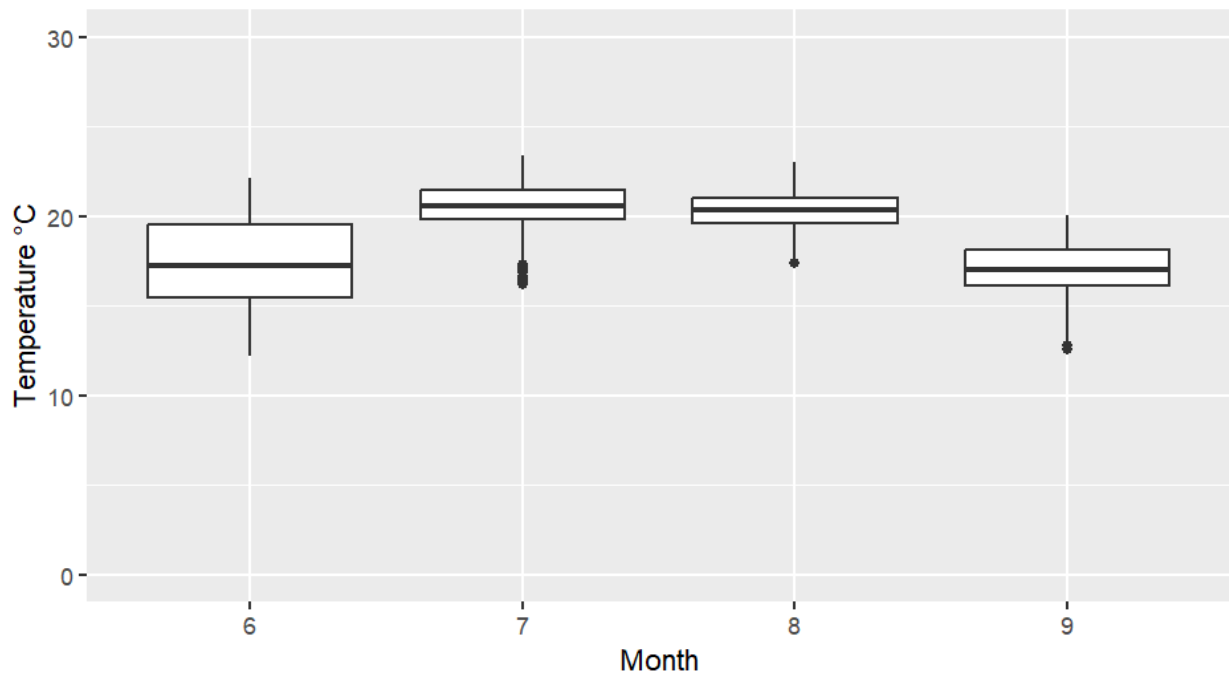


Table 28 Minimum, Maximum, and Average Temperatures at Steamboat Above Canton (UmpNF-079) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	5232	9.3	26.6	16.3
July	14496	12.4	27.5	19.7
August	14880	12.9	25.8	19.4
September	10224	9.6	22.0	15.7

Figure 75: Daily Maximum and Minimum Temperatures at Steamboat Above Canton (UmpNF-079)

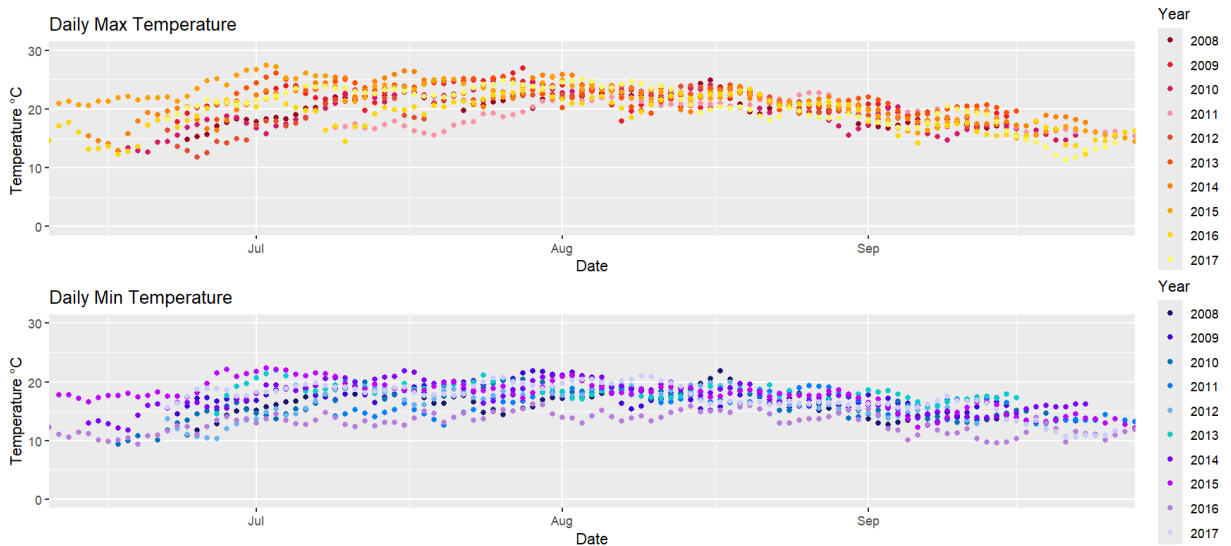


Figure 76: 7DADM Temperature at Steamboat Above Canton (UmpNF-079)

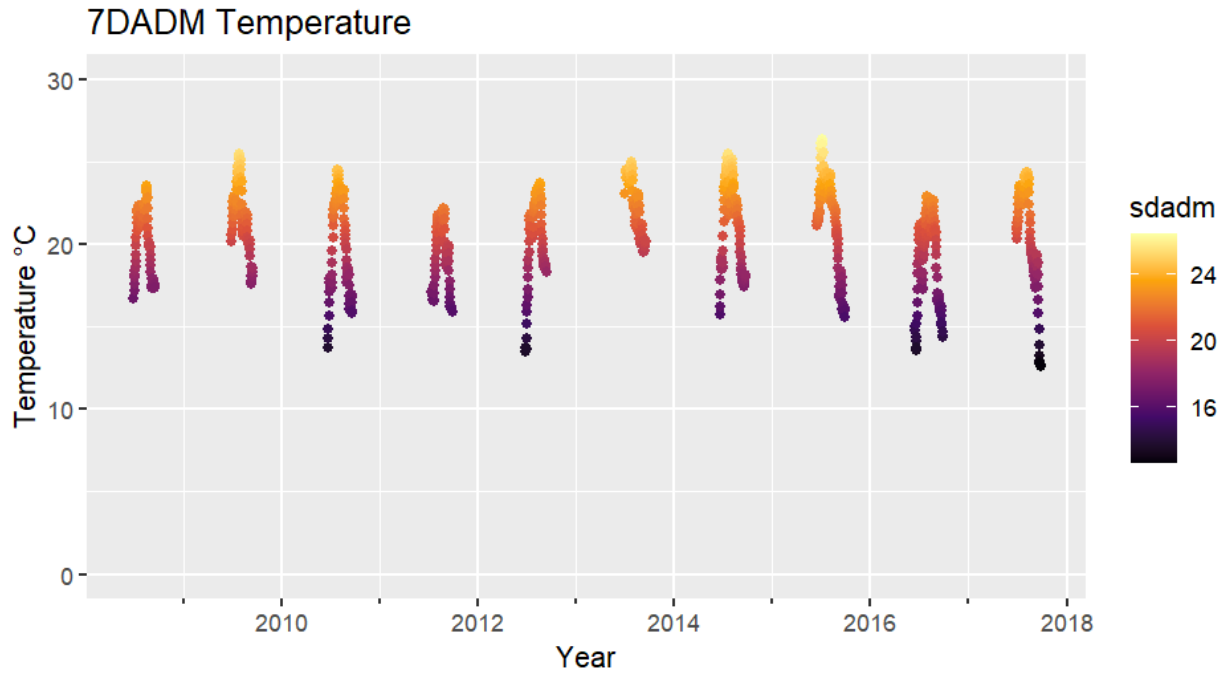


Figure 77: 7DADM Temperature Boxplot at Steamboat Above Canton (UmpNF-079)

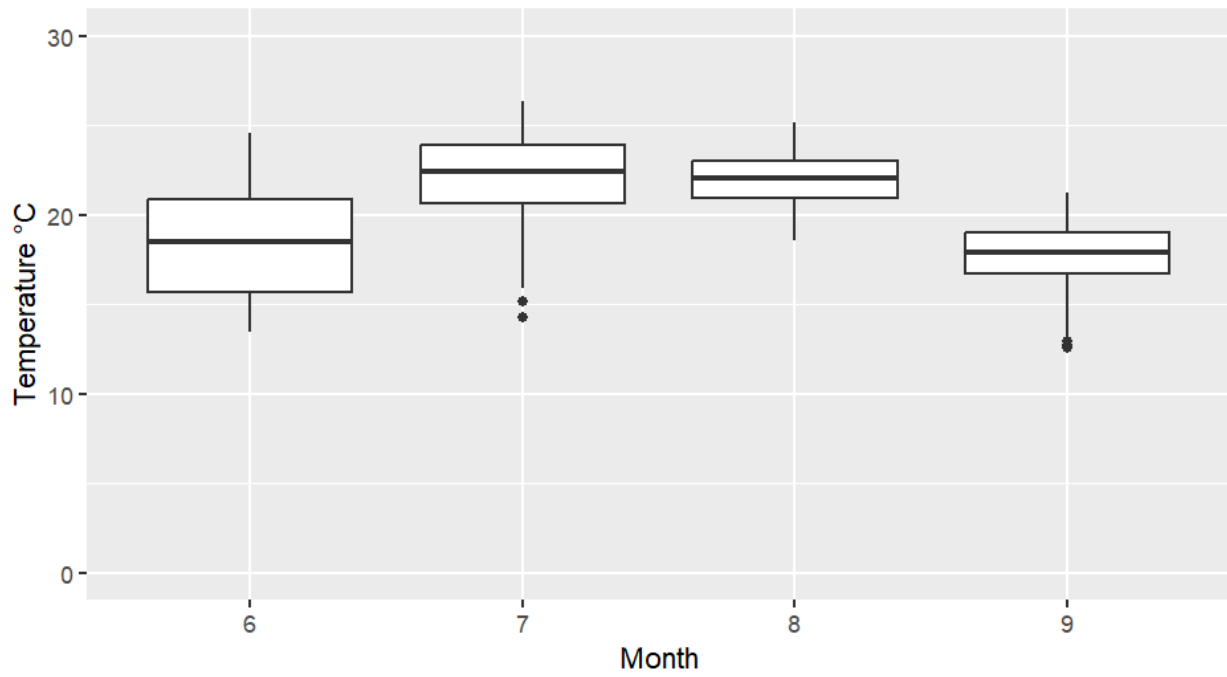


Table 29 Minimum, Maximum, and Average Temperatures at Steelhead Creek at the Mouth (UmpNF-080) from 2008-2009 and 2011-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	5856	8.8	21.1	13.8
July	13008	10.9	21.9	16.2
August	13392	11.6	20.9	16.4
September	10320	9.6	19.0	13.9
October	96	9.6	12.5	10.9

Figure 78: Daily Maximum and Minimum Temperatures at Steelhead Creek at the Mouth (UmpNF-080)

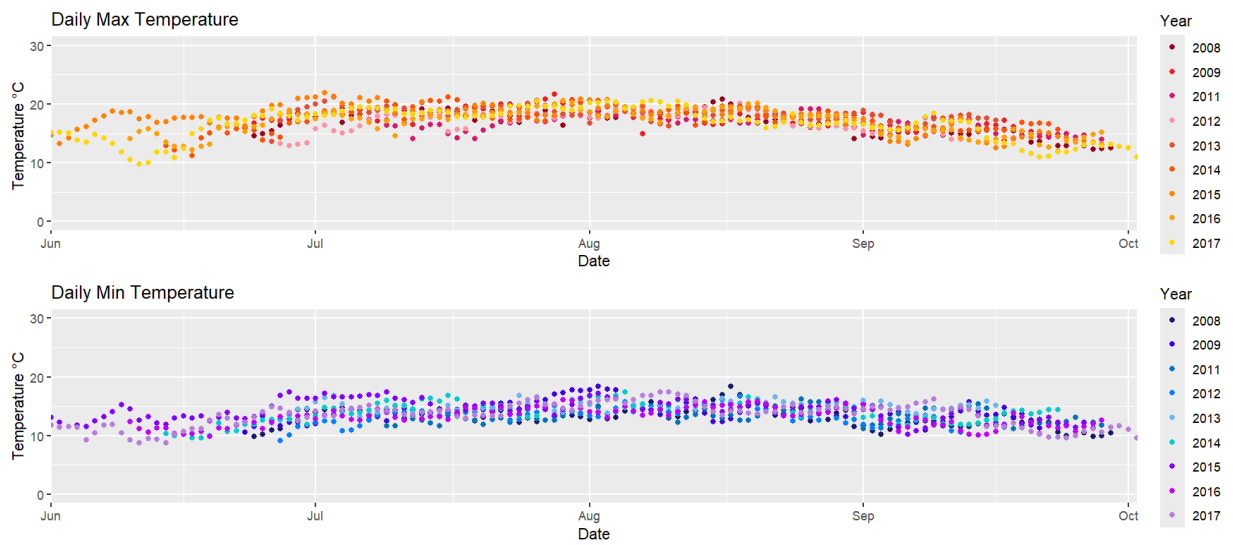


Figure 79: 7DADM Temperature at Steelhead Creek at the Mouth (UmpNF-080)

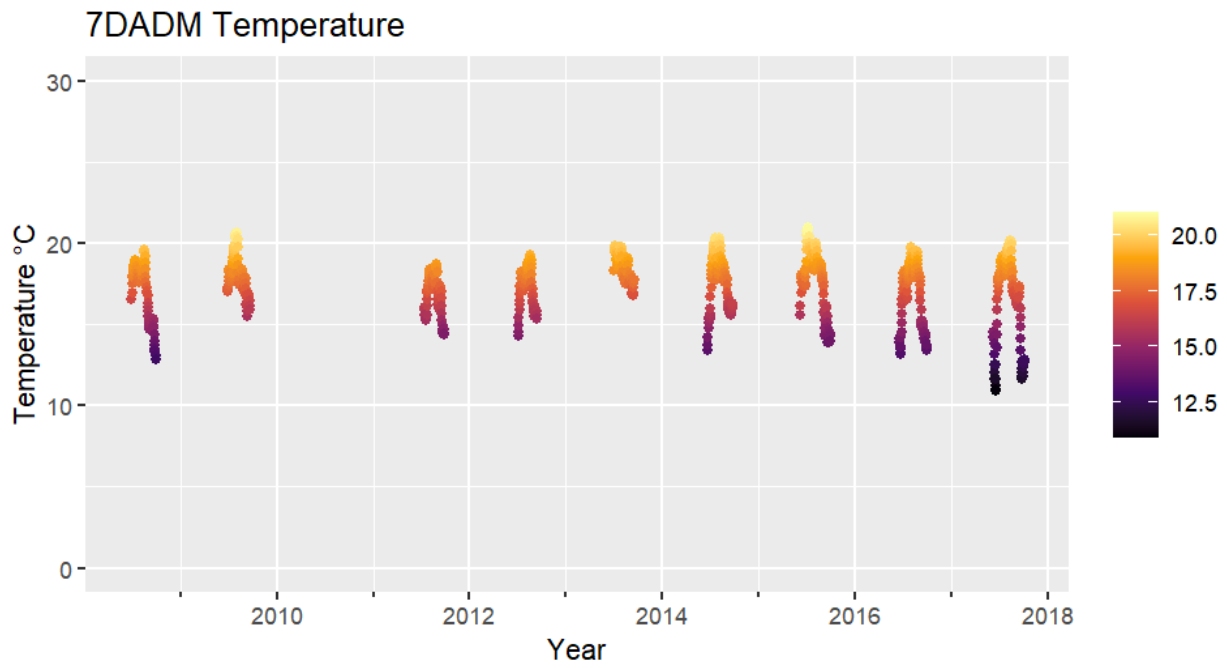


Figure 80: 7DADM Temperature Boxplot Steelhead Creek at the Mouth (UmpNF-080)

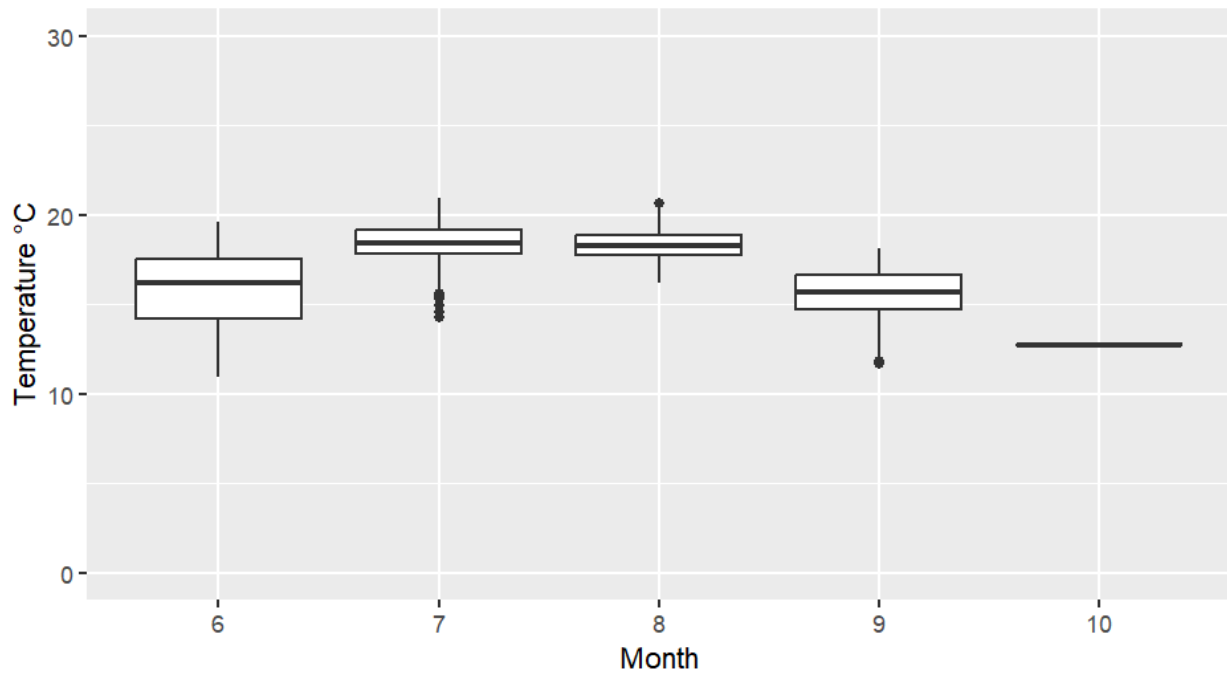


Table 30 Minimum, Maximum, and Average Temperatures at Big Bend Creek at the Moth (UmpNF-004) from 2008-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	6768	6.7	18.7	11.6
July	14496	9.1	19.4	13.7
August	14880	9.7	18.0	13.3
September	10896	7.7	15.3	11.2
October	144	6.5	9.8	8.4

Figure 81: Daily Maximum and Minimum Temperatures at Big Bend Creek at the Mouth (UmpNF-004)

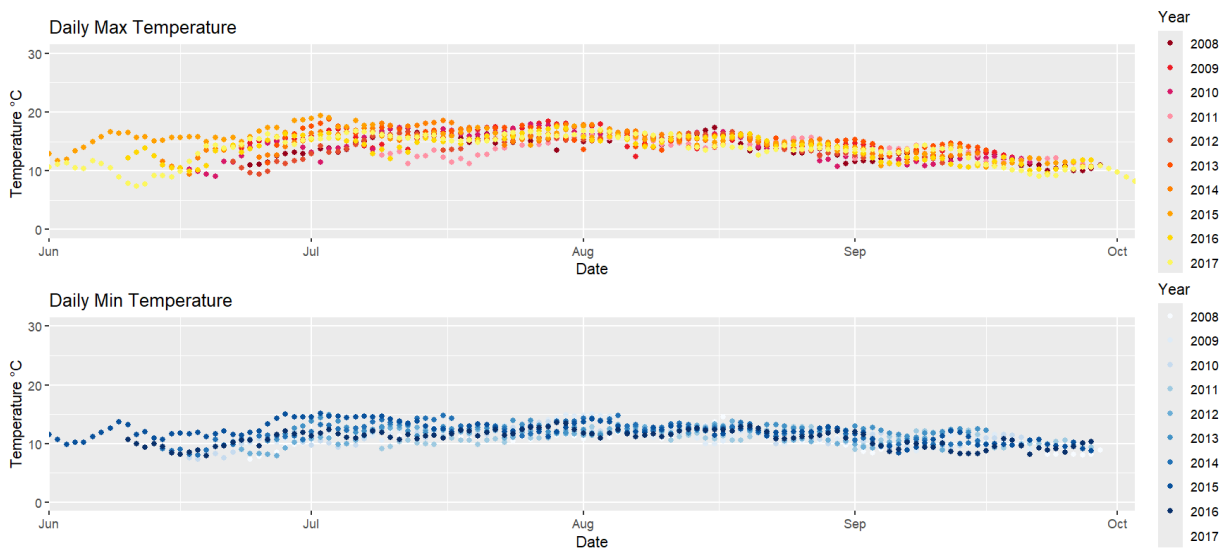


Figure 82: 7DADM Temperature at Big Bend Creek at the Mouth (UmpNF-004)

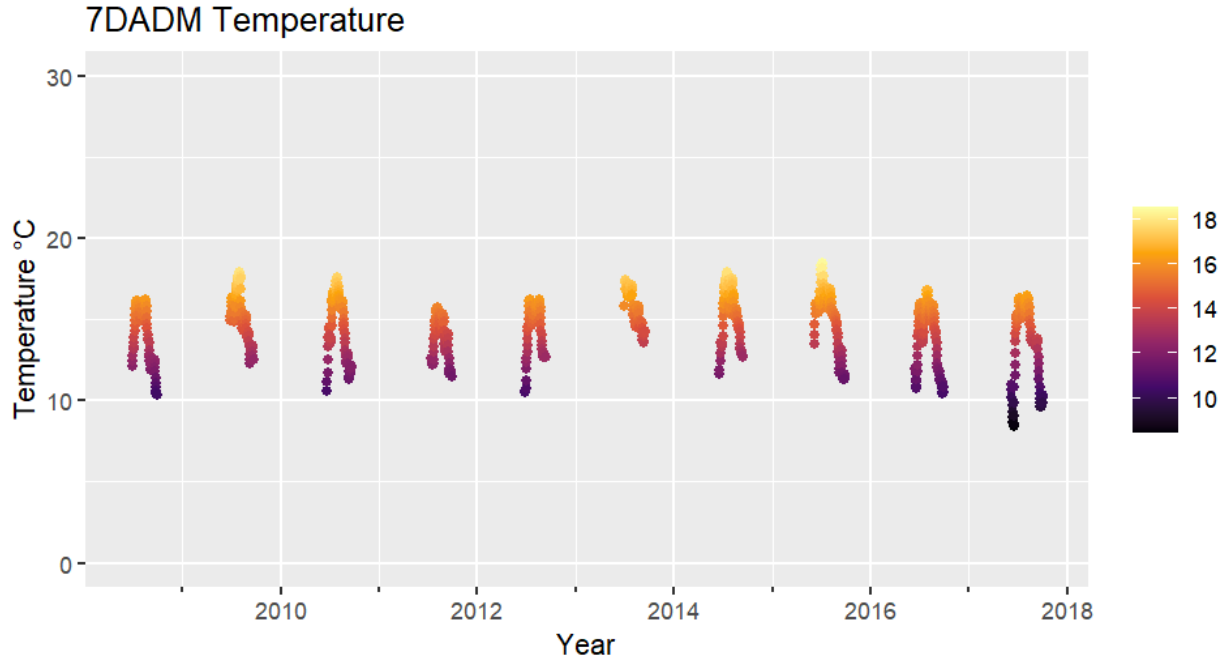


Figure 83: 7DADM Temperature Boxplot at Big Bend at the Mouth (UmpNF-004)

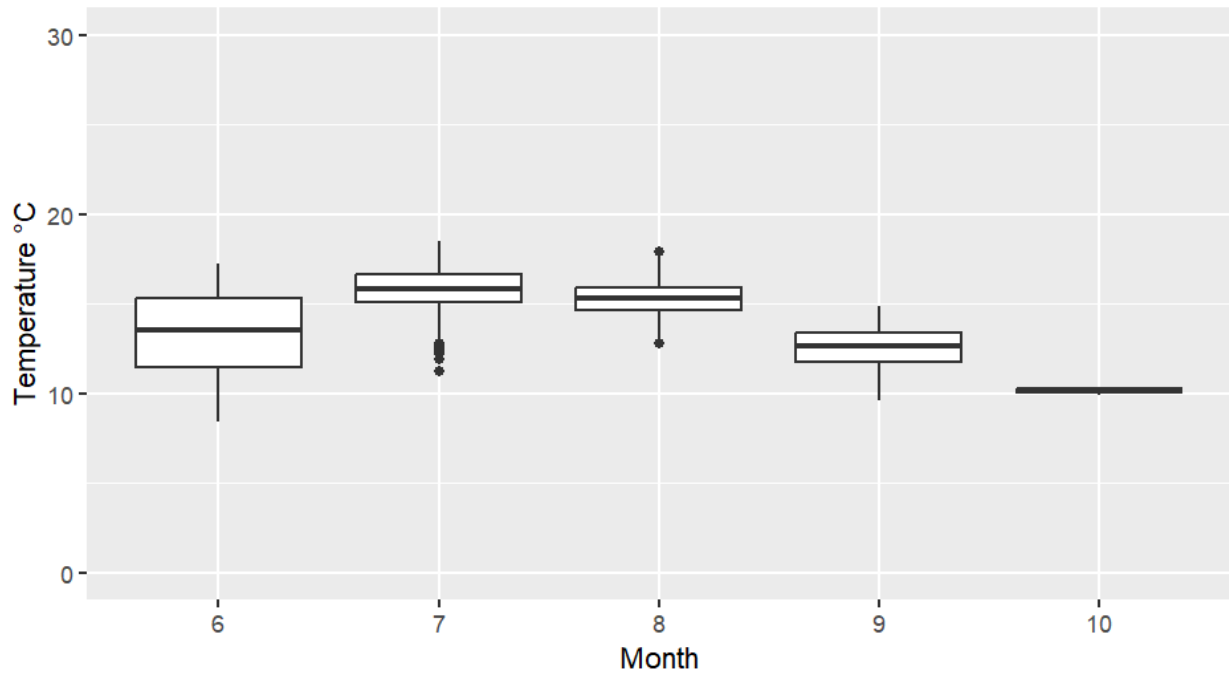


Table 31 Minimum, Maximum, and Average Temperature at North Umpqua River at Soda Springs Near Toketee Falls, Oregon (USGS-14316460) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	15948	1.2	6.3	4.0
February	14870	2.2	6.9	4.2
March	16332	2.5	8.6	5.1
April	16290	3.2	10.1	6.5
May	17785	5.0	12.6	8.6
June	17275	7.5	16.2	11.2
July	17787	10.2	15.8	13.3
August	17417	10.7	15.0	12.9
September	17229	8.0	13.6	10.7
October	17829	4.1	10.8	8.2
November	17288	2.1	8.9	5.4
December	17832	1.6	7.6	4.1

Figure 84: Daily Maximum and Minimum Temperatures at North Umpqua River at Soda Springs Near Toketee Falls, Oregon (USGS-14316460)

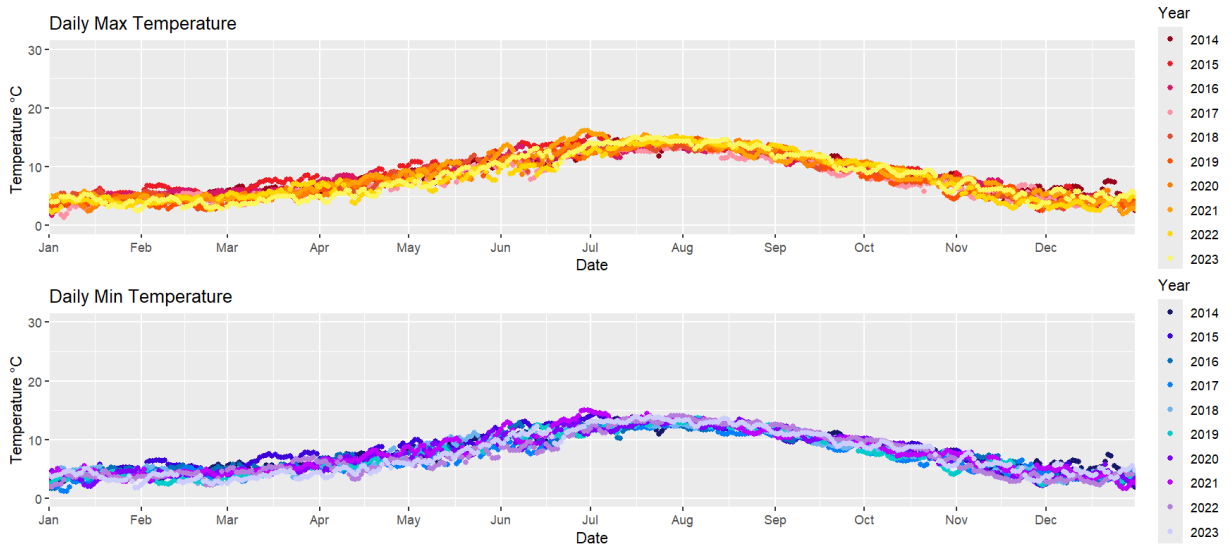


Figure 85: 7DADM Temperature at North Umpqua River at Soda Springs Near Toketee Falls, Oregon (USGS-14316460)

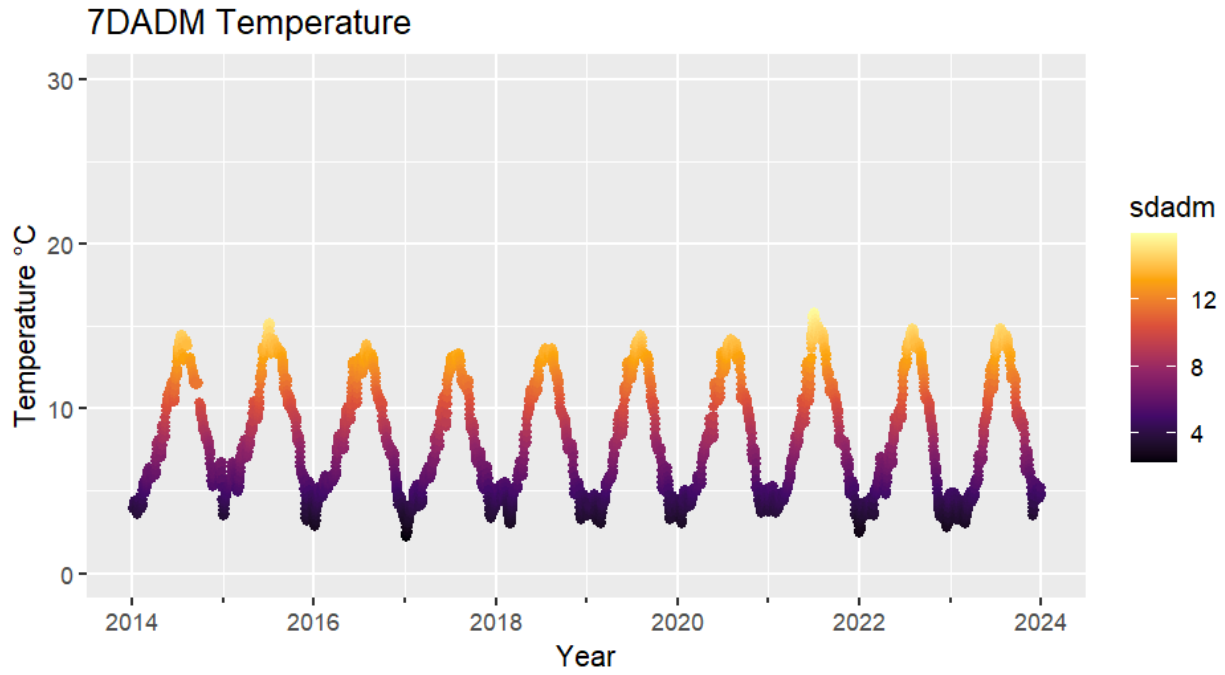


Figure 86: 7DADM Temperature Boxplot at North Umpqua River at Soda Springs Near Toketee Falls, Oregon (USGS-14316460)

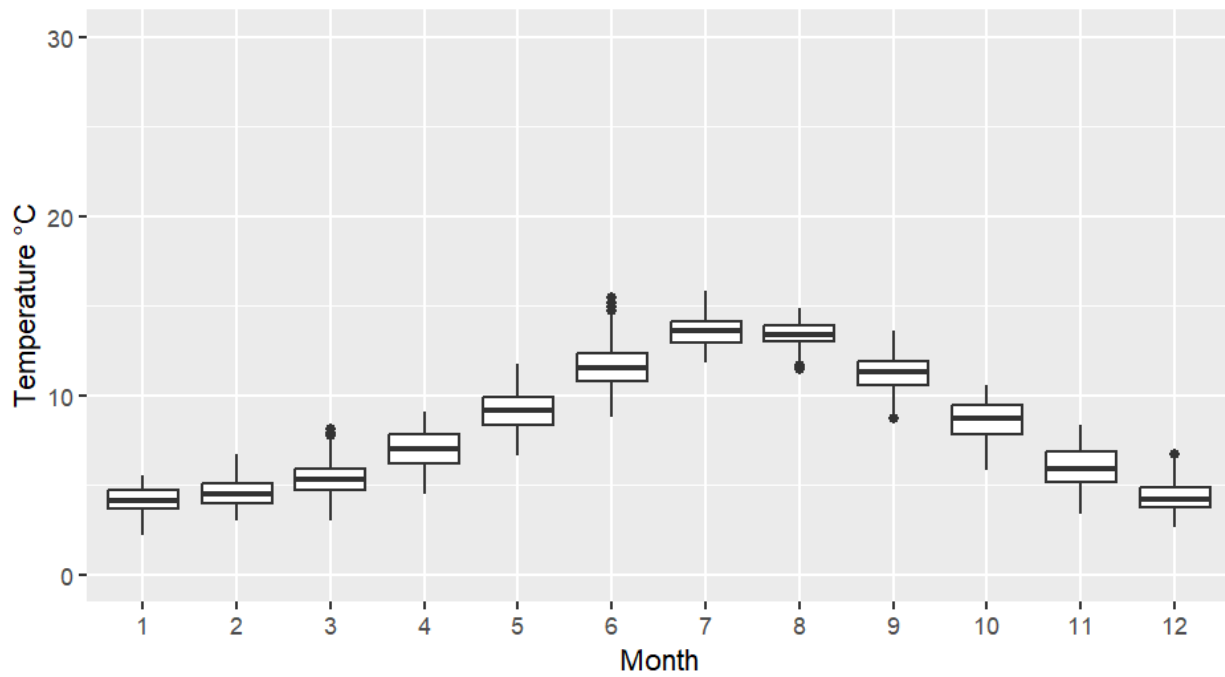


Table 32 Minimum, Maximum, and Average Temperatures at Lake Creek at the Mouth (UmpNF-052) from 2008-2016

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	5472	4.7	21.4	12.3
July	13008	7.8	22.2	14.5
August	13392	7.1	20.9	14.2
September	12384	4.9	17.4	11.5
October	2736	3.0	14.2	9.2

Figure 87: Daily Maximum and Minimum Temperatures at Lake Creek at the Mouth (UmpNF-052)

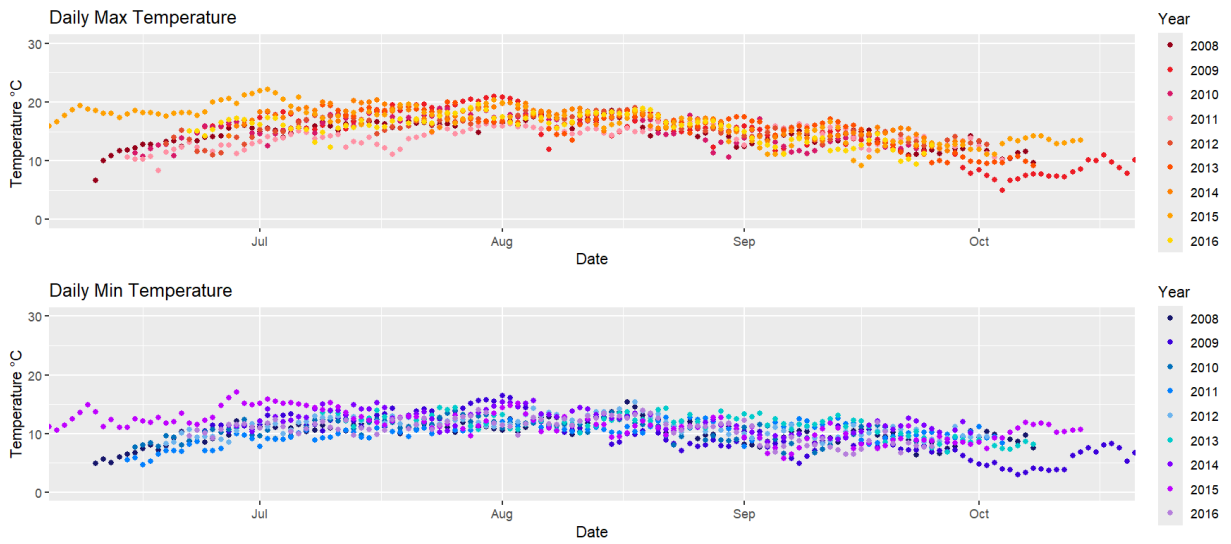


Figure 88: 7DADM Temperature at Lake Creek at the Mouth (UmpNF-052)

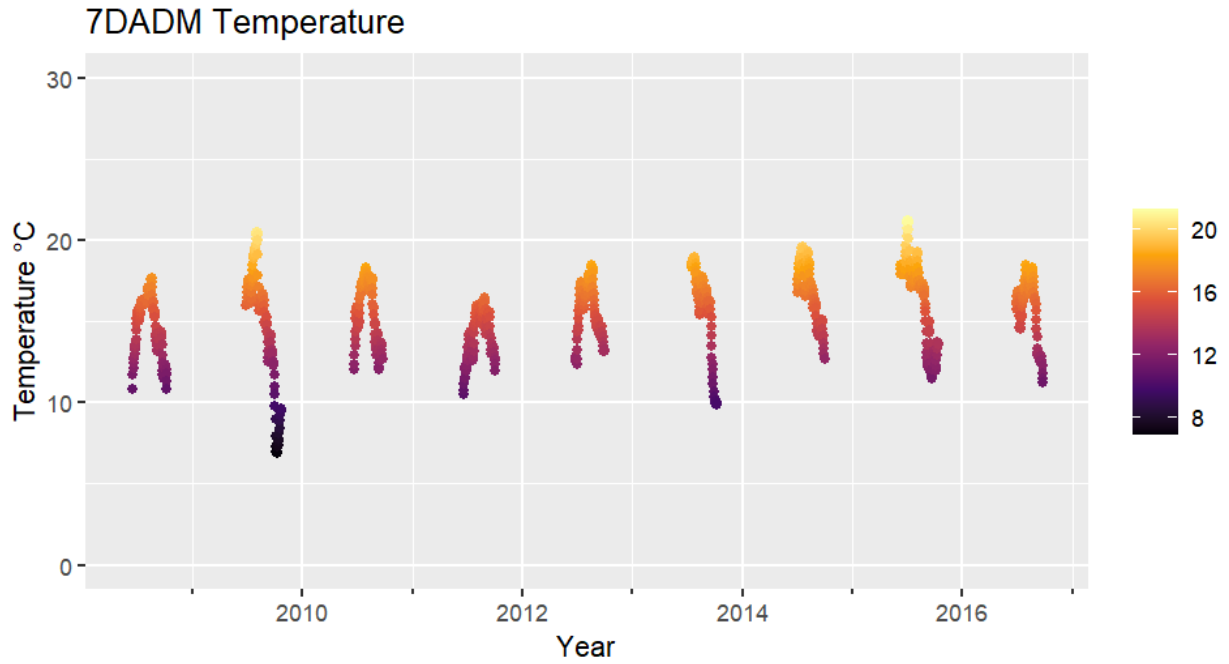
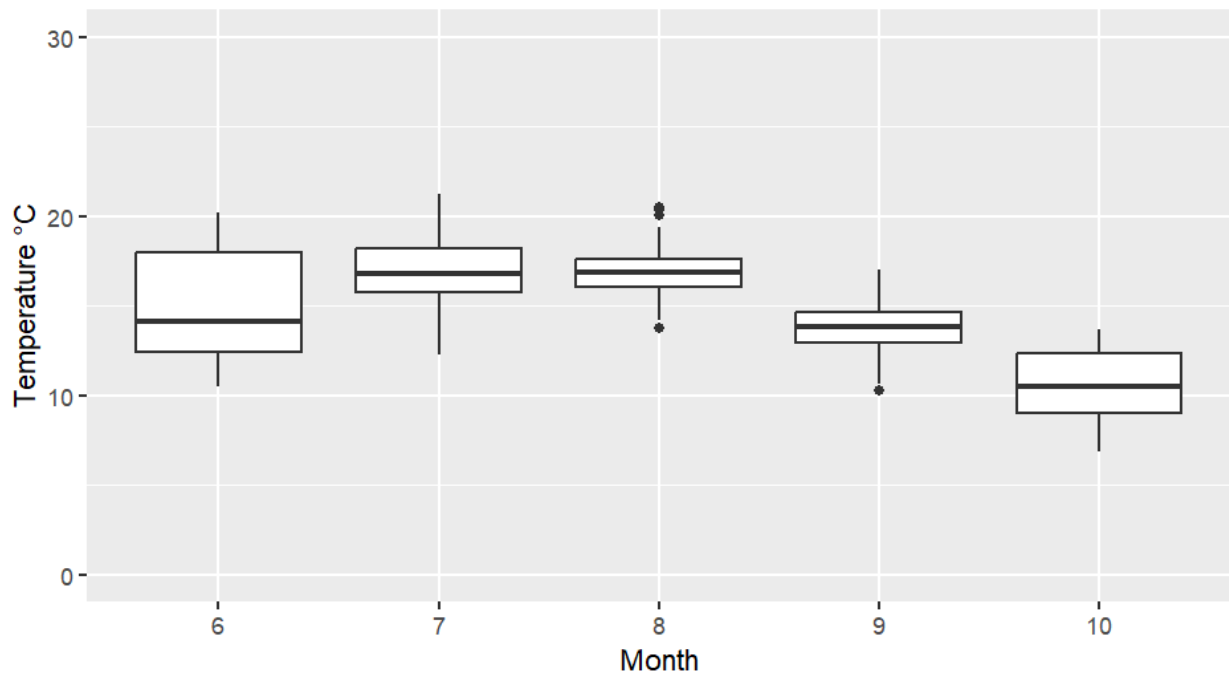


Figure 89: 7DADM Temperature Boxplot at Lake Creek at the Mouth (UmpNF-052)



Umpqua River Basin

Table 33 Minimum, Maximum, and Average Temperatures at Smith River Upstream South Fork Smith River (24102-ORDEQ) from 2010

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	359	13.8	19.2	16.9
July	841	12.9	17.4	15.4

Figure 90: Daily Maximum and Minimum Temperatures at Smith River Upstream South Fork Smith River (24102-ORDEQ)

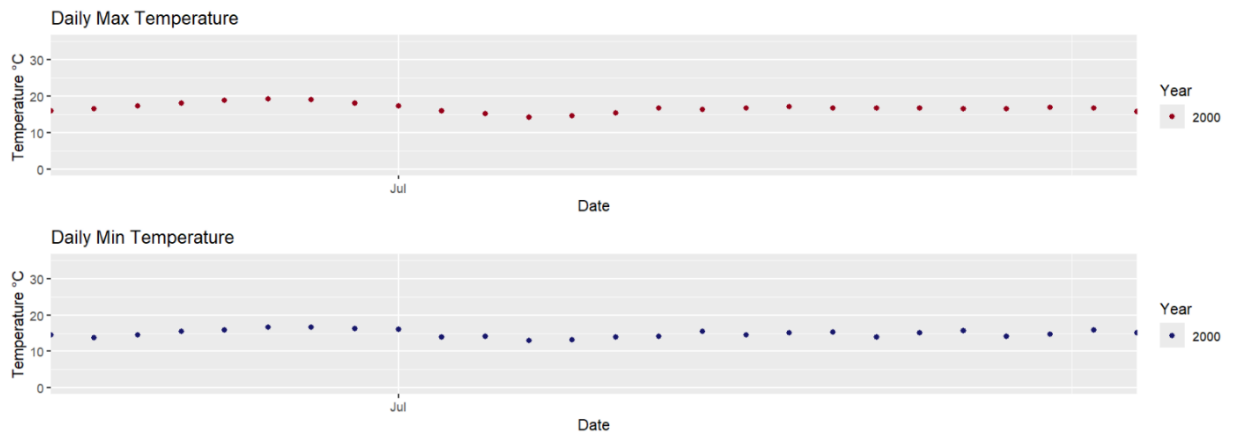


Figure 91: 7DADM Temperature at Smith River Upstream South Fork Smith River (24102-ORDEQ)

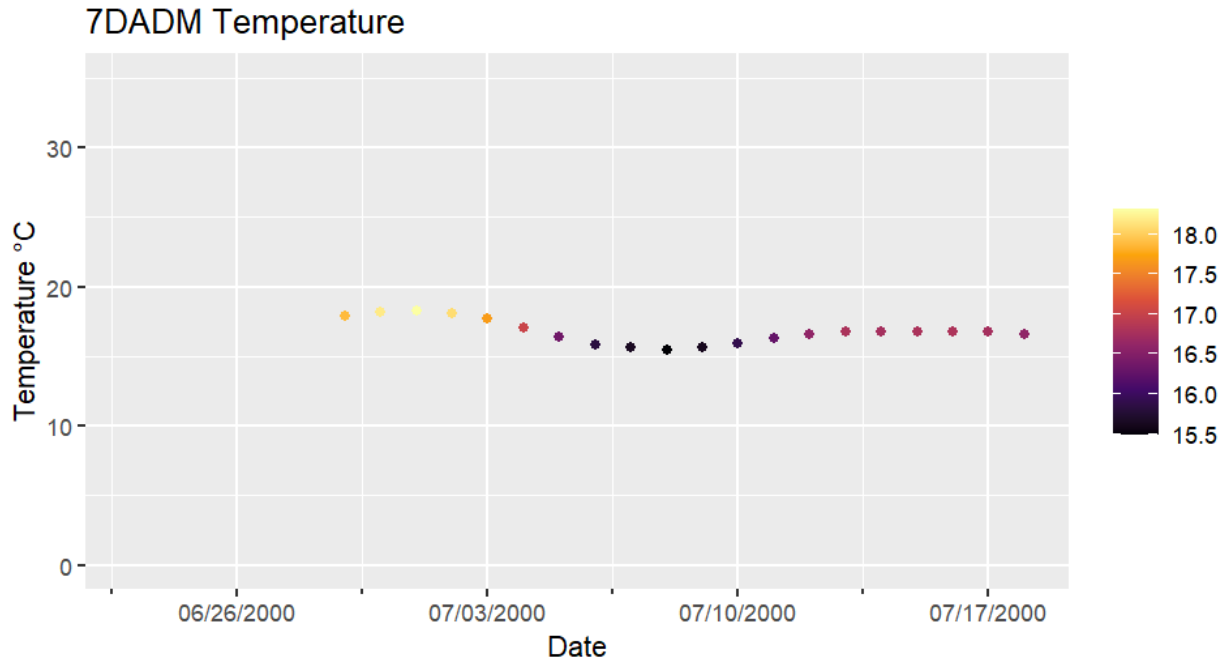


Figure 92: 7DADM Temperature Boxplot at Smith River Upstream South Fork Smith River (24102-ORDEQ)

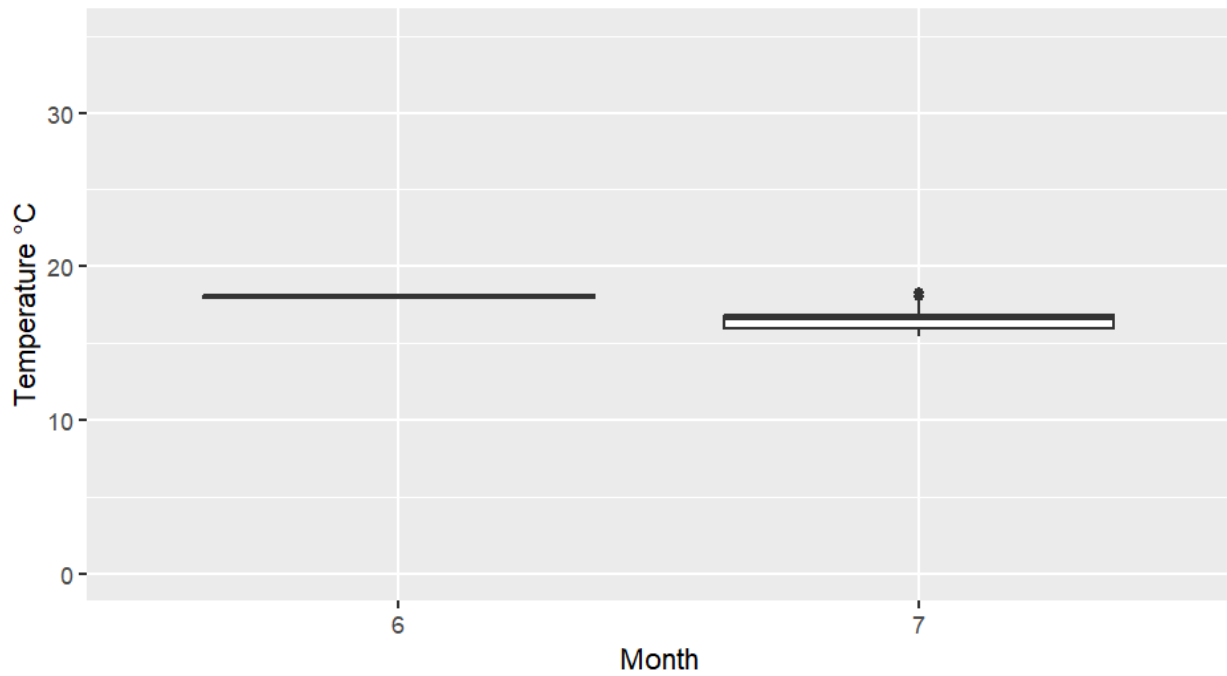


Table 34 Minimum, Maximum, and Average Temperatures at Umpqua River at River Mile 49.58 (40520-ORDEQ) from 2016-2018, 2020, and 2022

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	449	17.9	21.7	19.6
June	1840	18.0	26.0	22.1
July	6220	20.6	28.5	24.6
August	7440	21.0	28.3	24.7
September	6516	15.3	25.5	20.5
October	274	15.6	17.9	16.9

Figure 93: Daily Maximum and Minimum Temperatures at Umpqua River at River Mile 49.58 (40520-ORDEQ)

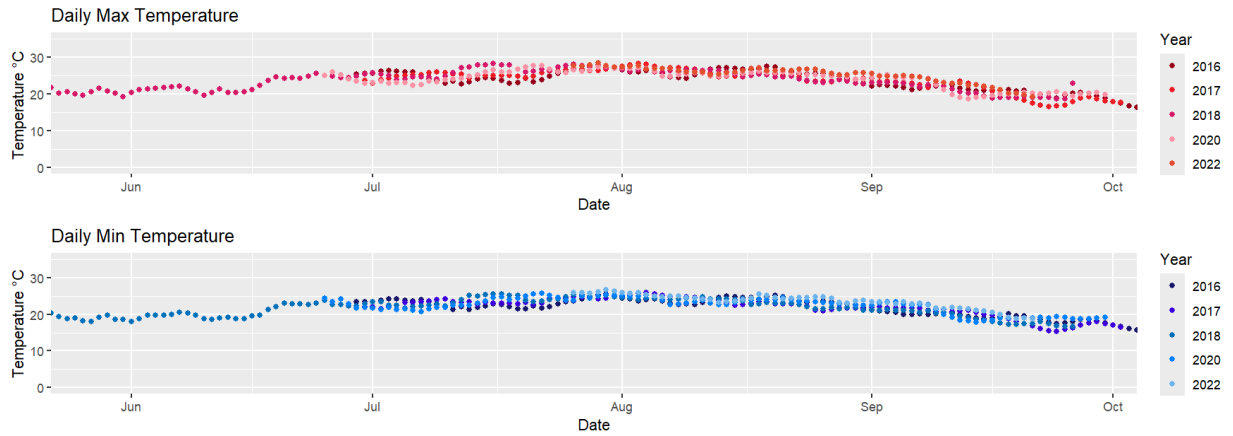


Figure 94: 7DADM Temperature at Umpqua River at River Mile 49.8 (40520-ORDEQ)

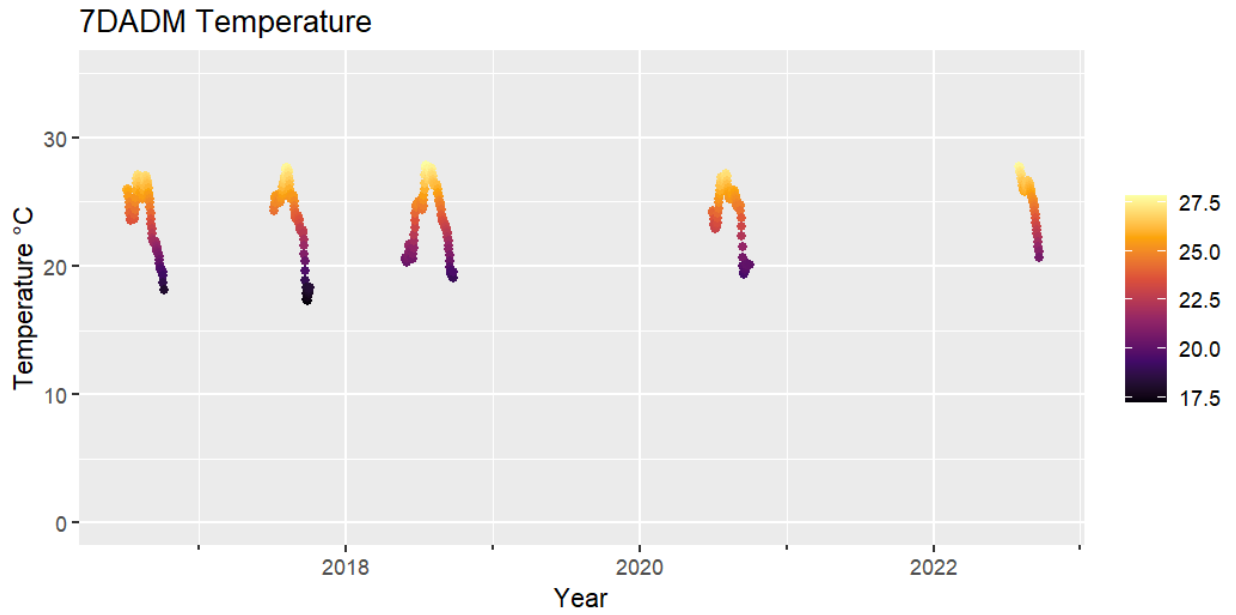


Figure 95: 7DADM Temperature Boxplot at Umpqua River at River Mile 49.58 (40520-ORDEQ)

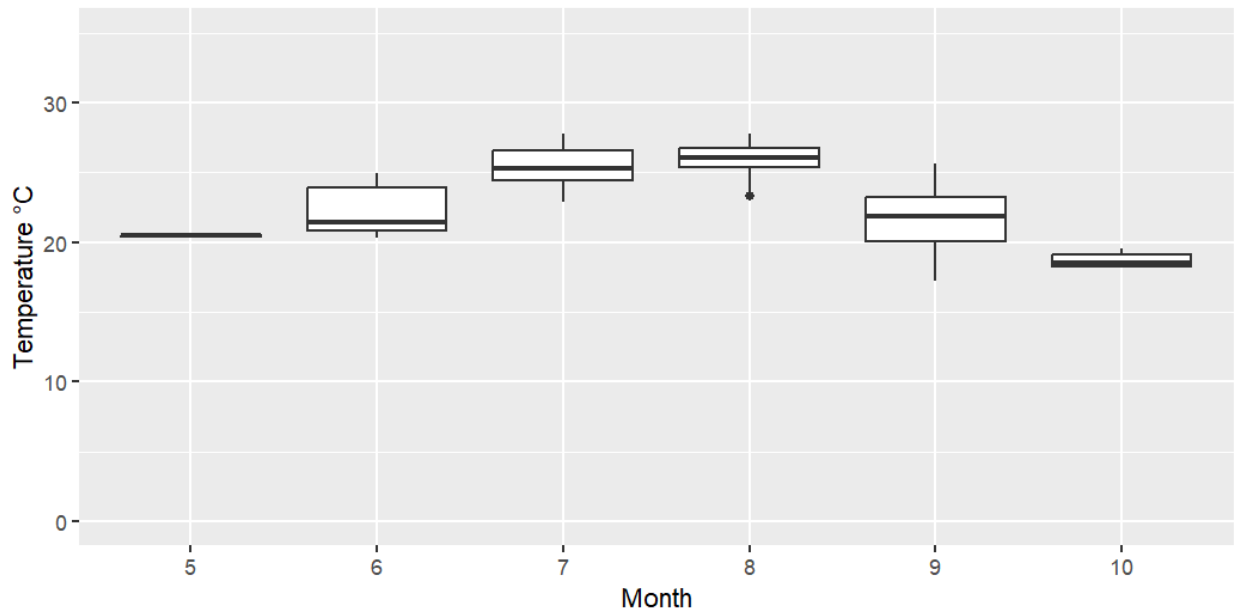


Table 35 Minimum, Maximum, and Average Temperatures at Umpqua River at Discovery Center Docks (37399-ORDEQ) from 2019-2020

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	1488	6.4	9.1	7.7
February	1392	6.7	9.3	7.5
March	1486	7.9	11.2	9.8
April	1440	8.3	16.0	12.9
May	1488	14.3	19.6	16.2
June	1726	15.1	22.7	19.2
July	1488	16.1	23.0	20.7
August	1488	16.6	23.4	20.7
September	1440	15.4	22.1	19.6
October	1488	9.7	17.0	13.7
November	1442	6.2	10.6	9.4
December	1488	6.1	8.4	7.3

Figure 96: Daily Maximum and Minimum Temperatures at Umpqua River at Discovery Center Docks (37399-ORDEQ)

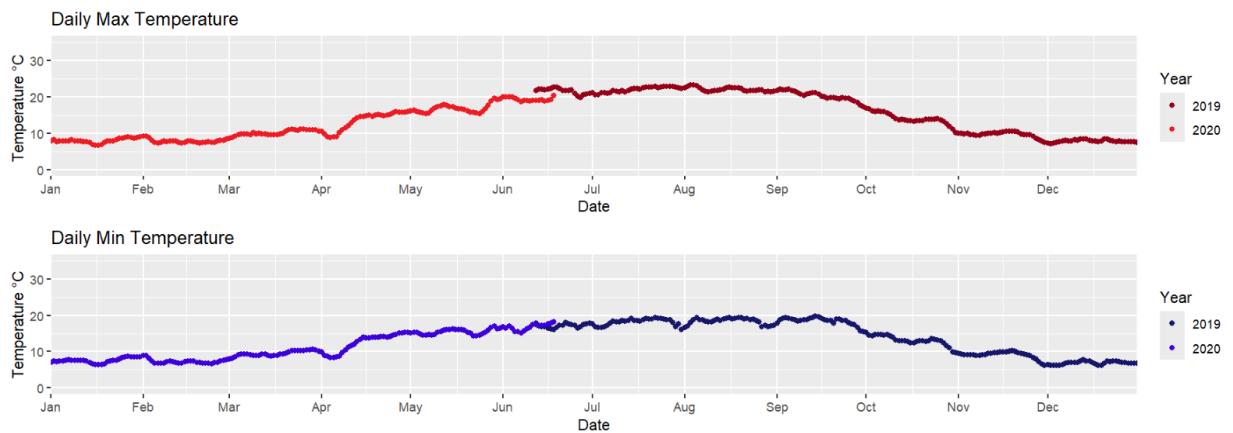


Figure 97: 7DADM Temperature at Umpqua River at Discovery Center Docks (37399-ORDEQ)

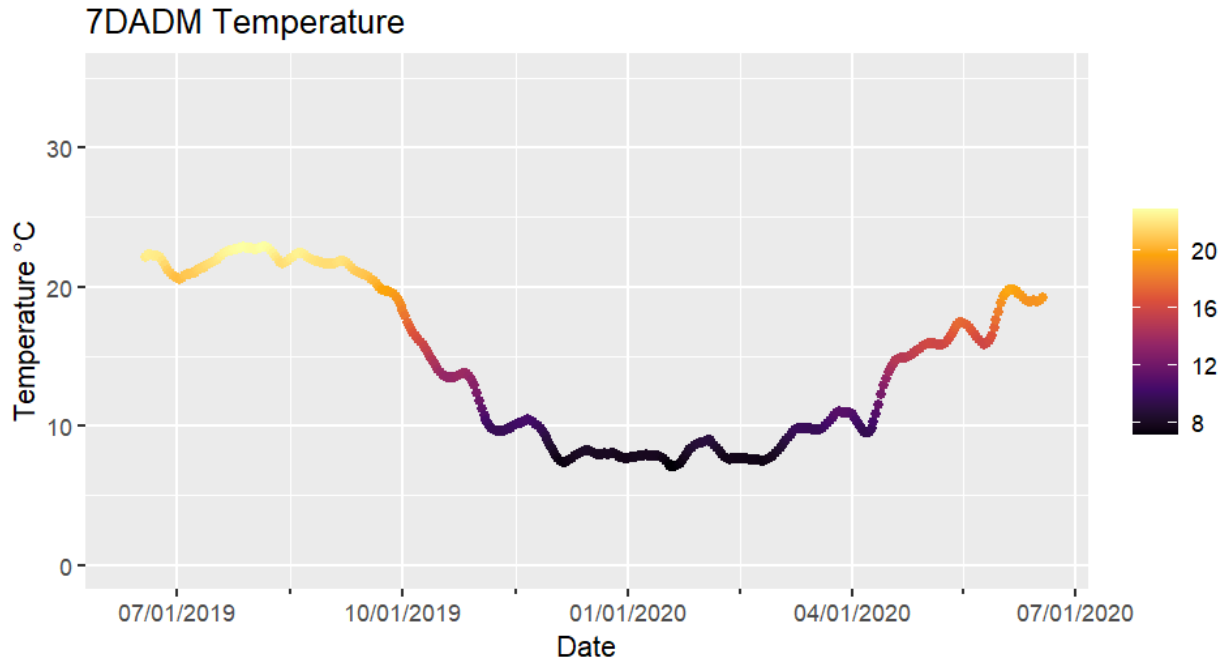


Figure 98: 7DADM Temperature Boxplot at Umpqua at Discovery Center Docks (37399-ORDEQ)

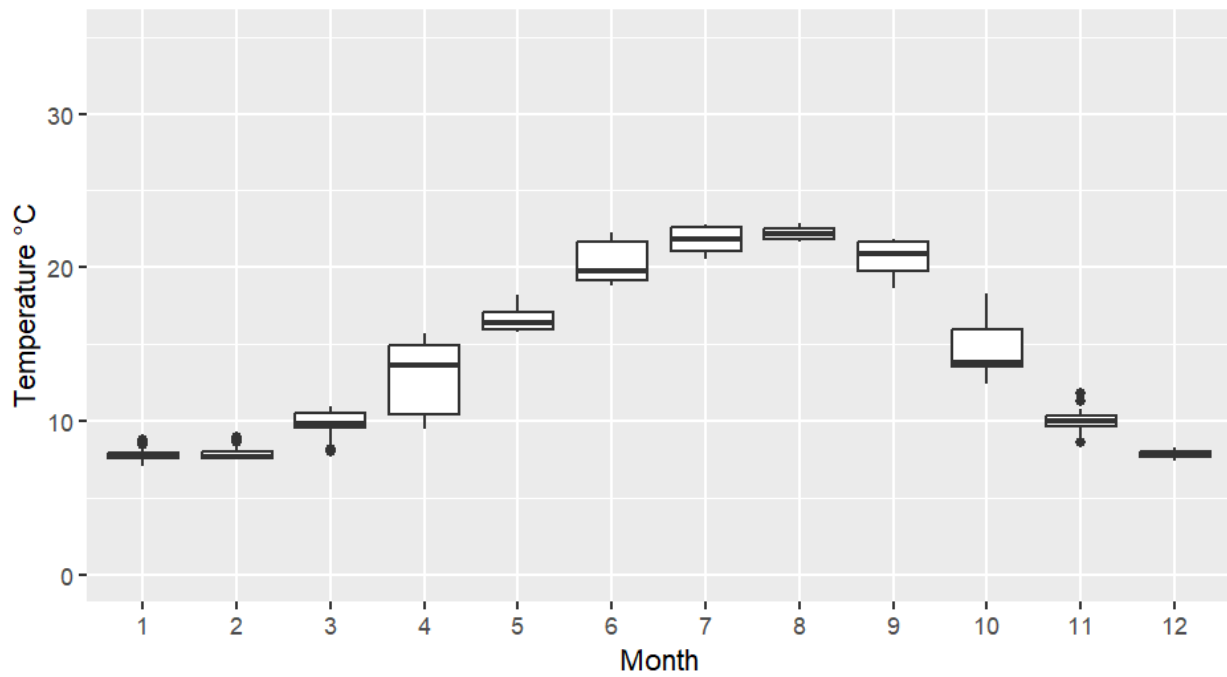


Table 36 Minimum, Maximum, and Average Temperatures at Calapooya Creek at Umpqua (10996-ORDEQ) from 2002 and 2018

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	432	15.5	22.2	18.9
June	1440	15.4	26.6	21.0
July	2978	14.7	28.8	23.6
August	2612	11.8	28.3	20.8
September	1818	7.9	25.0	17.0

Figure 99 Daily Maximum and Minimum Temperatures at Calapooya Creek at Umpqua (10996-ORDEQ)

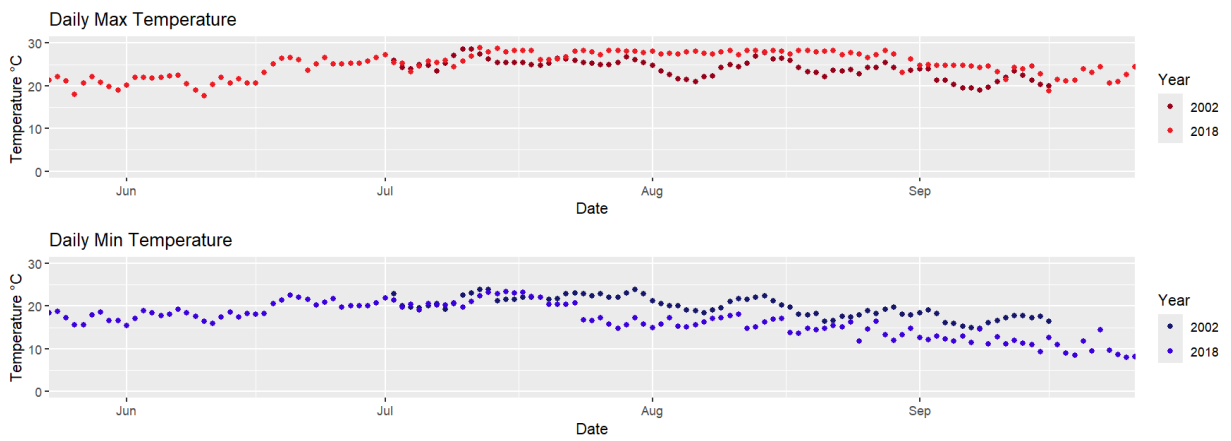


Figure 100: 7DADM Temperature at Calapooya Creek at Umpqua (10996-ORDEQ)

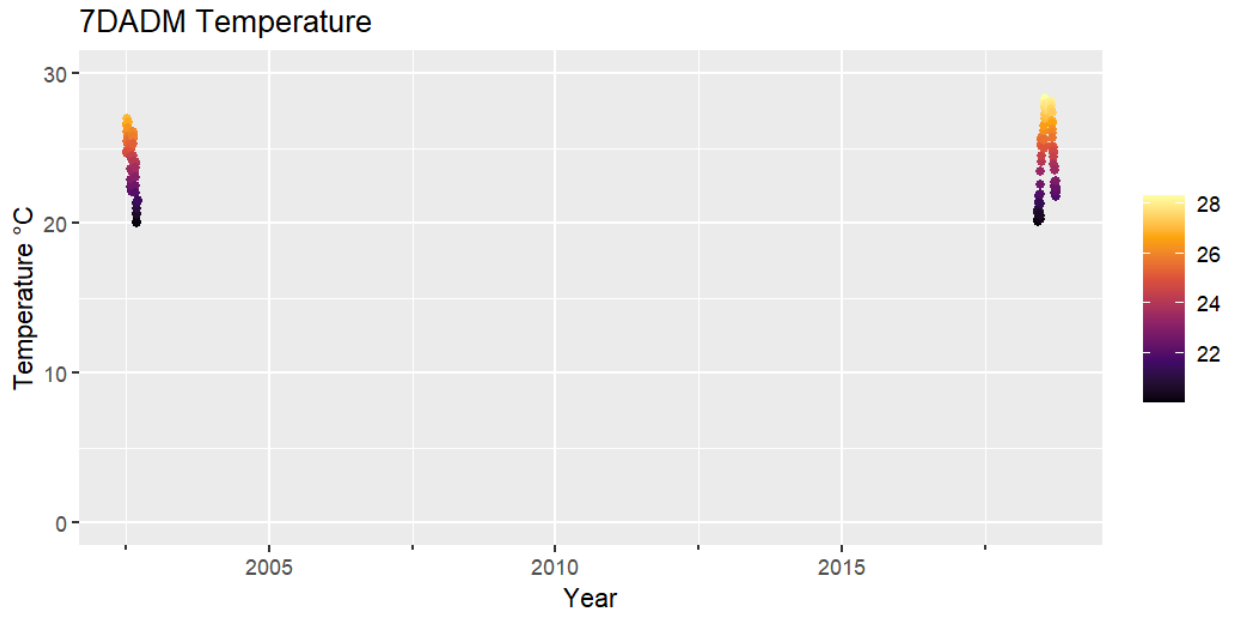


Figure 101: 7DADM Temperature Boxplot at Calapooya Creek at Umpqua (10996-ORDEQ)

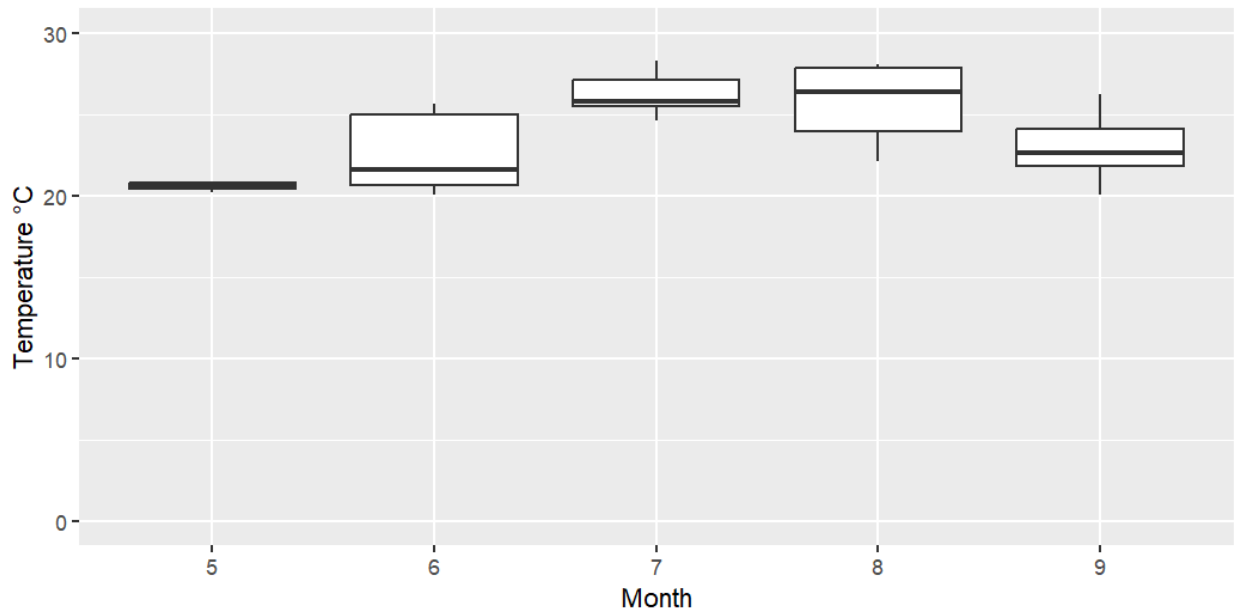


Table 37 Minimum, Maximum, and Average Temperatures at Calapooya at Umpqua Landing (24405-ORDEQ) from 2016-2017

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	122	21.1	26.9	23.6
July	2976	18.3	29.5	23.5
August	2976	17.7	29.9	23.2
September	2880	14.0	24.1	18.4
October	601	11.0	16.9	14.0

Figure 102: Daily Maximum and Minimum Temperatures at Calapooya at Umpqua Landing (24405-ORDEQ)

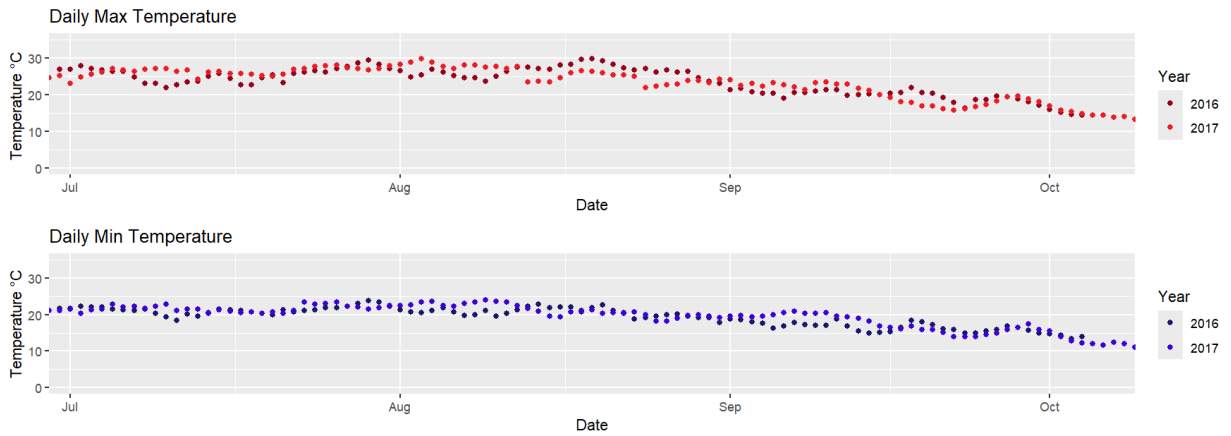


Figure 103: 7DADM Temperature at Calapooya at Umpqua Landing (24405-ORDEQ)

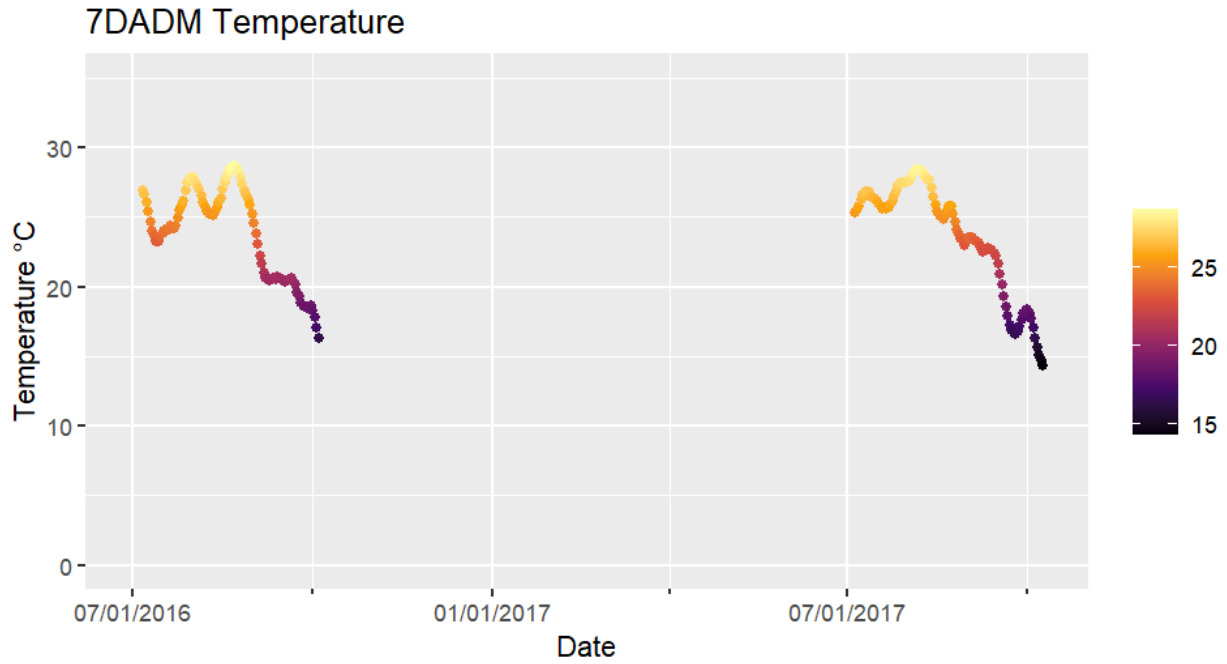


Figure 104: 7DADM Temperature Boxplot at Calapooya at Umpqua Landing (24405-ORDEQ)

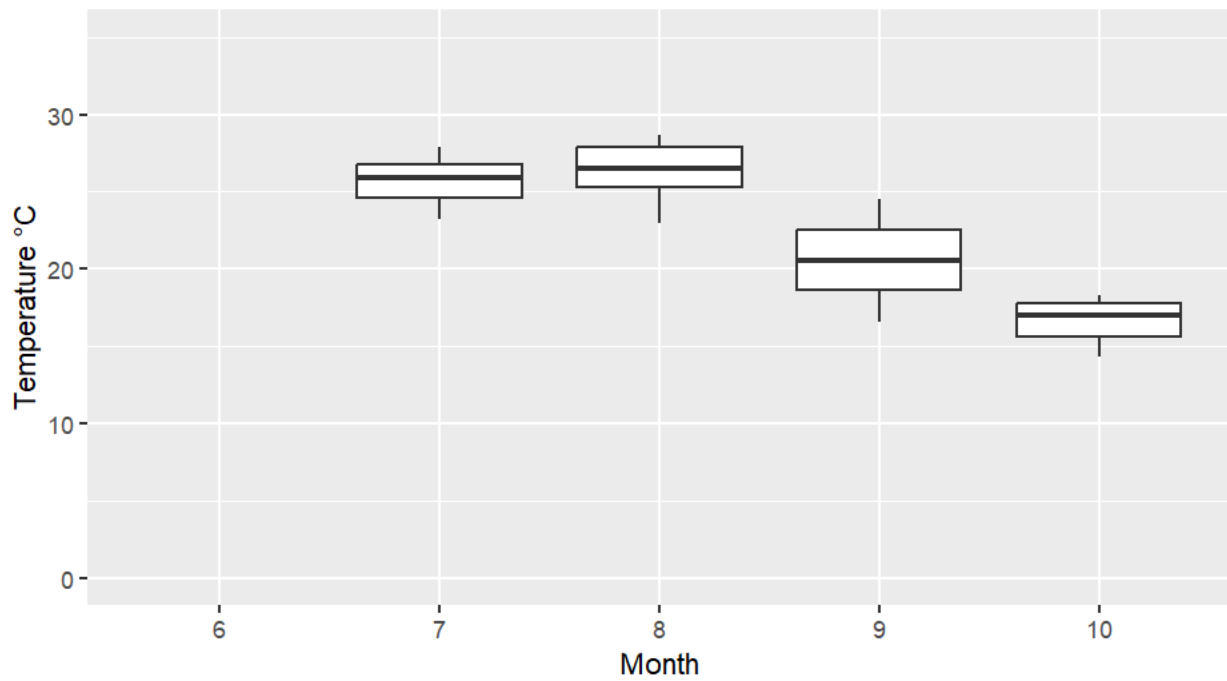


Table 38 Minimum, Maximum, and Average Temperatures at Hubbard Creek at Hubbard Creek Road Bridge (40519-ORDEQ) from 2016-2018

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	432	12.1	19.4	15.5
June	1584	11.2	22.5	17.6
July	4464	15.8	24.6	19.9
August	4464	15.2	24.8	19.5
September	4105	10.8	20.7	15.4
October	266	11.4	14.0	12.5

Figure 105: Daily Maximum and Minimum Temperatures at Hubbard Creek at Hubbard Creek Road Bridge (40519-ORDEQ)

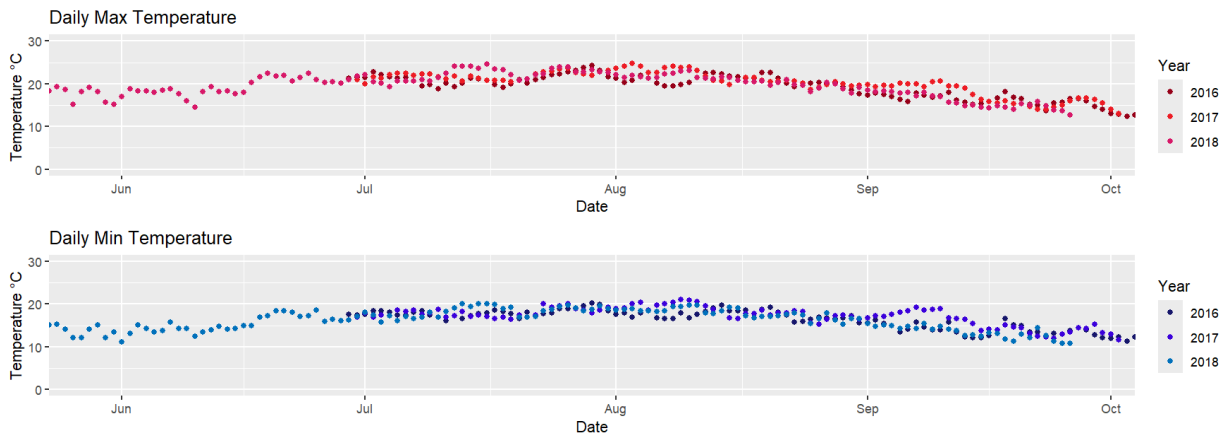


Figure 106: 7DADM Temperature at Hubbard Creek at Hubbard Creek Road Bridge (40519-ORDEQ)

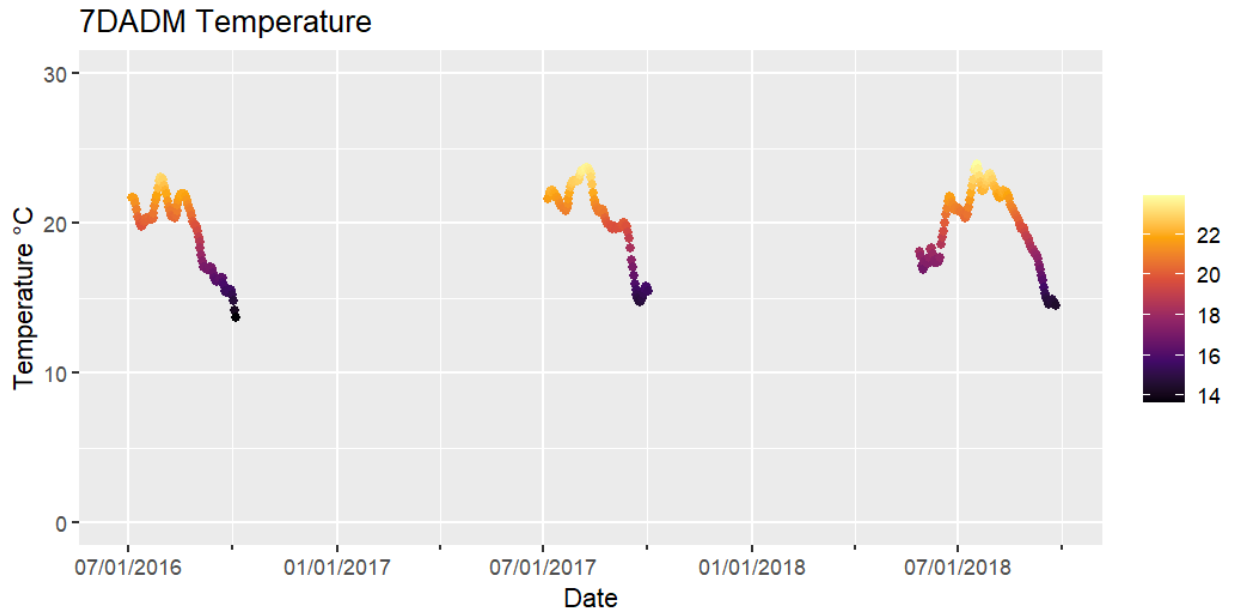


Figure 107: 7DADM Temperature Boxplot at Hubbard Creek at Hubbard Creek Road Bridge (40519-ORDEQ)

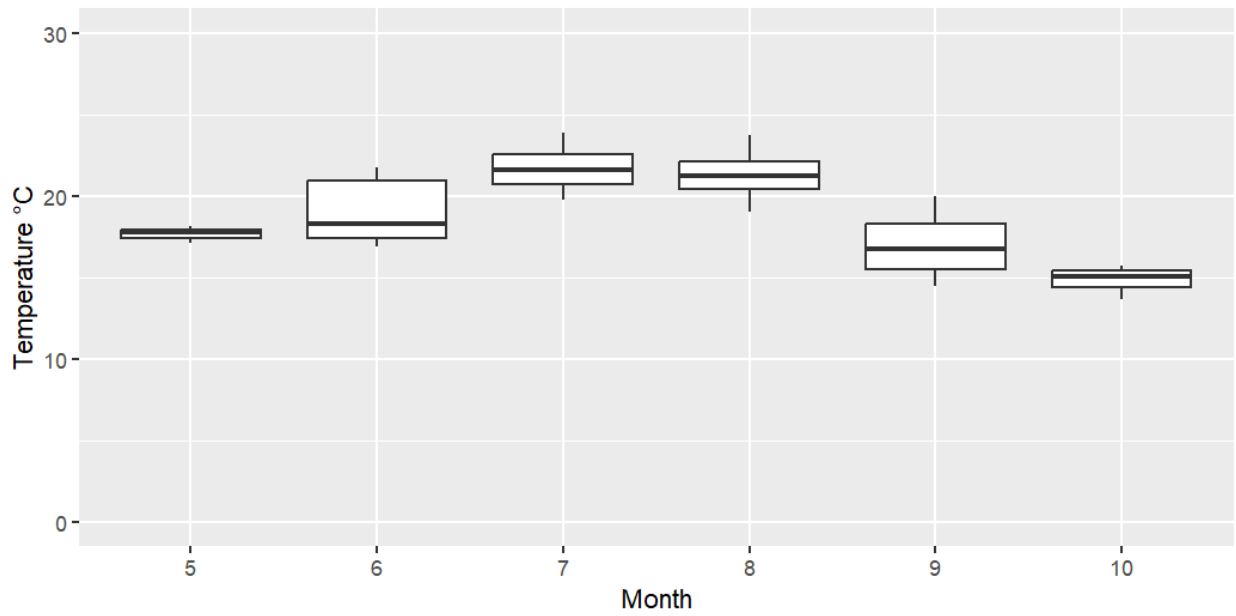


Table 39 Minimum, Maximum, and Average Temperature Boxplot at Little Wolf Creek Near Tye, Oregon (USGS-14320934) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
January	29569	2.0	10.5	7.6
February	26666	2.8	10.7	7.5
March	29313	4.4	12.2	8.3
April	28741	5.8	14.2	9.6
May	28339	7.8	17.3	12.2
June	28796	9.3	25.3	15.1
July	29759	12.4	23.0	17.7
August	29752	13.0	25.3	18.0
September	28800	9.6	20.5	14.9
October	28934	4.7	15.9	11.4
November	27529	1.9	13.4	8.6
December	28897	2.8	11.5	7.7

Figure B.108: Daily Maximum and Minimum Temperatures at Little Wolf Creek Near Tye, Oregon (USGS-14320934)

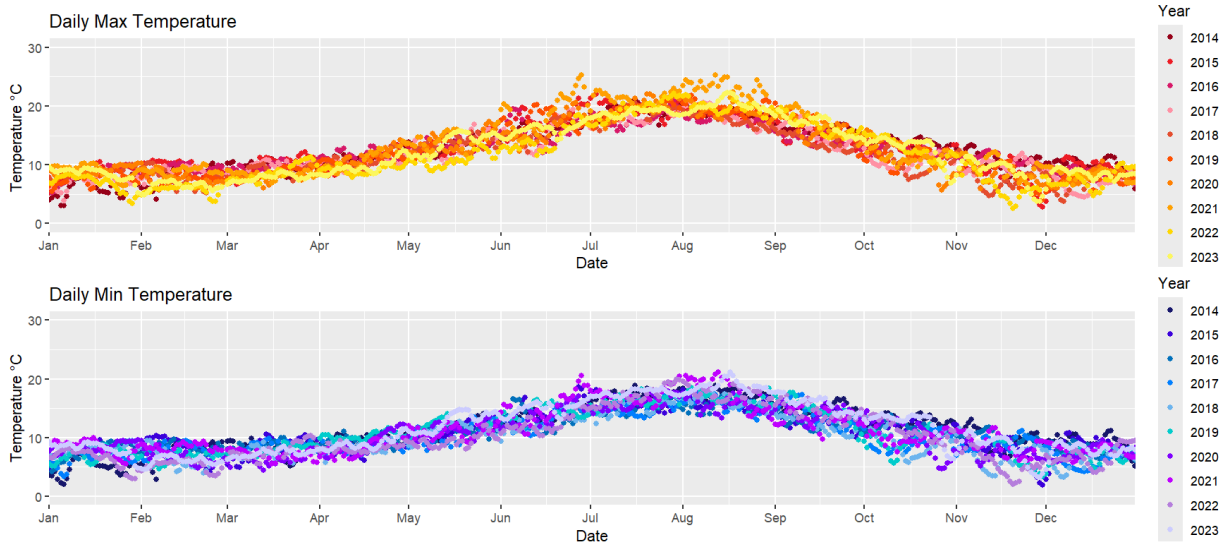


Figure 109: 7DADM Temperature at Little Wolf Creek Near Tye, Oregon (USGS-14320934)

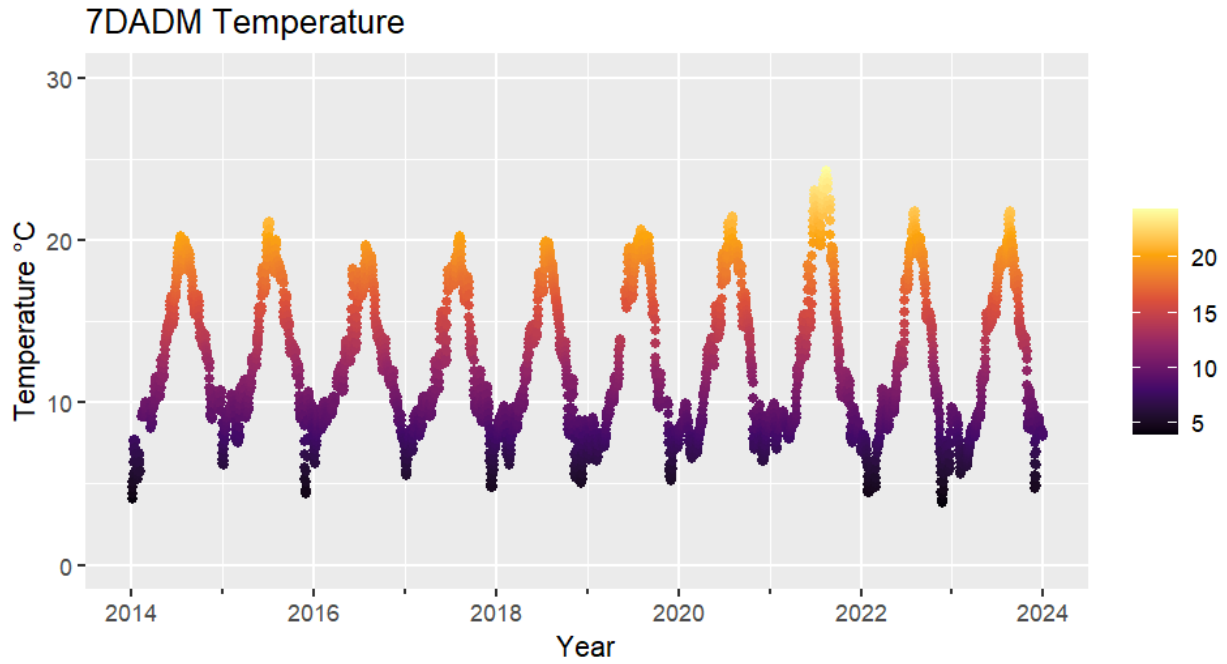


Figure 110: 7DADM Temperature Boxplot at Little Wolf Creek Near Tye, Oregon (USGS-14320934)

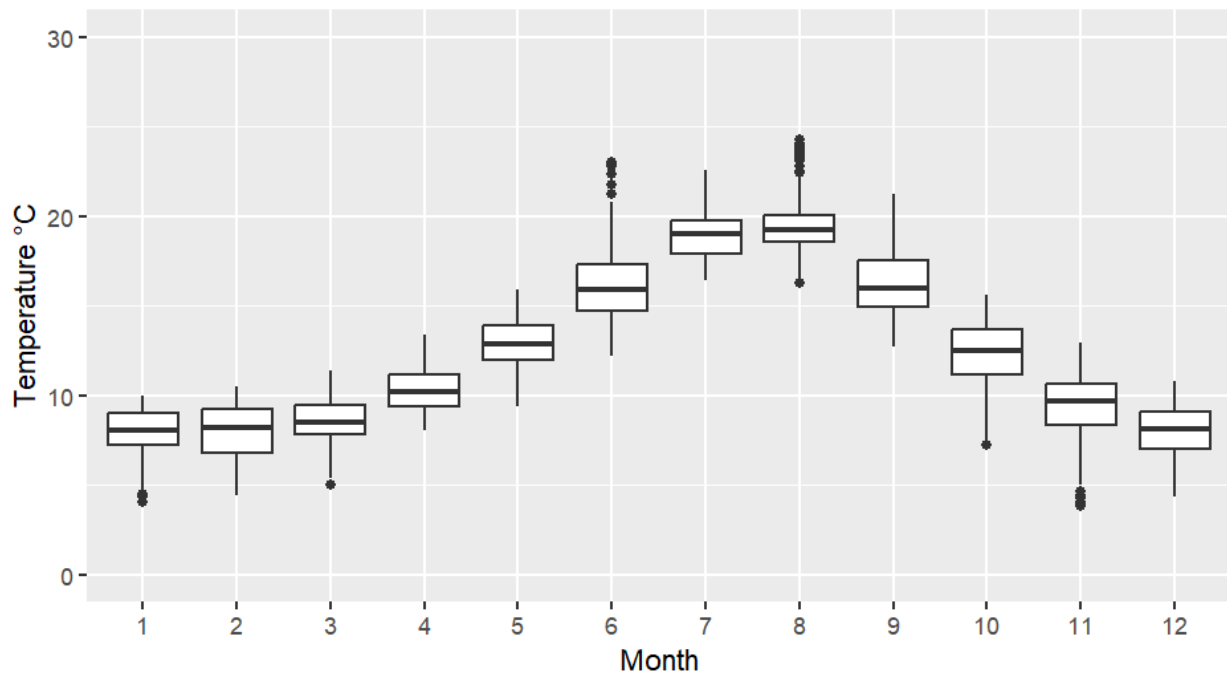


Table 40 Minimum, Maximum, and Average Temperatures at Pass Creek at Mouth (30161-ORDEQ) from 2014-2023

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	7867	12.7	30.1	19.1
July	14880	16.0	26.5	21.1
August	14880	14.8	27.0	20.8
September	12431	12.4	23.8	17.3
October	743	12.7	19.9	14.4

Figure 111: Daily Maximum and Minimum Temperatures at Pass Creek at Mouth (30161-ORDEQ)

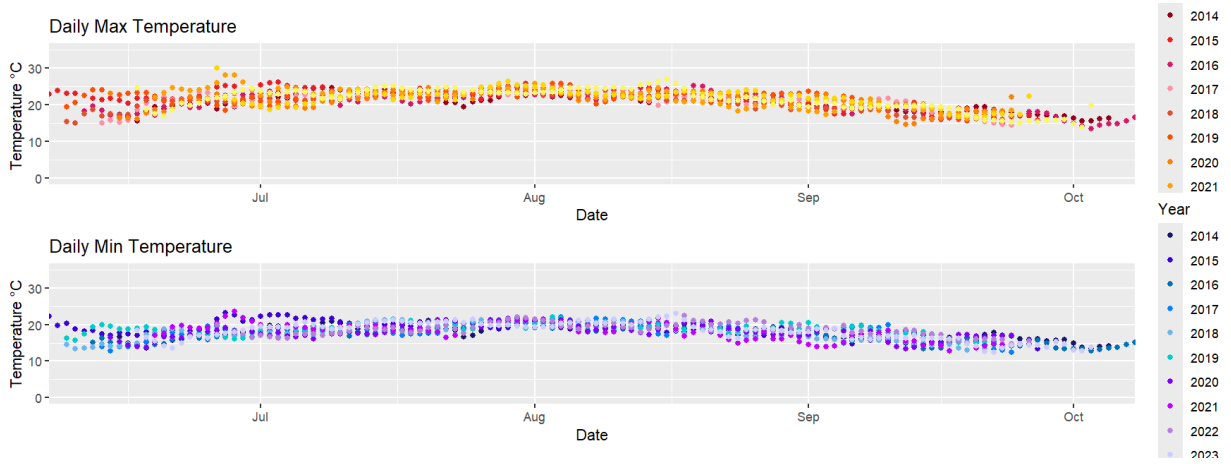


Figure 112: 7DADM Temperature at Pass Creek at Mouth (30161-ORDEQ)

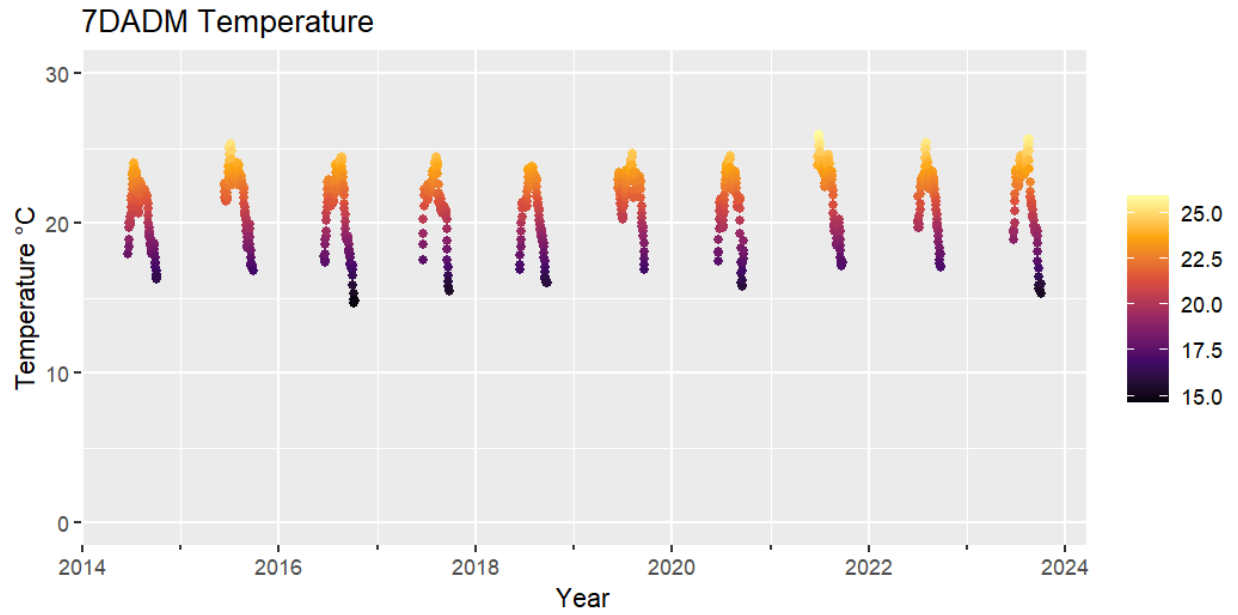


Figure 113: 7DADM Temperature Boxplot at Pass Creek at Mouth (30161-ORDEQ)

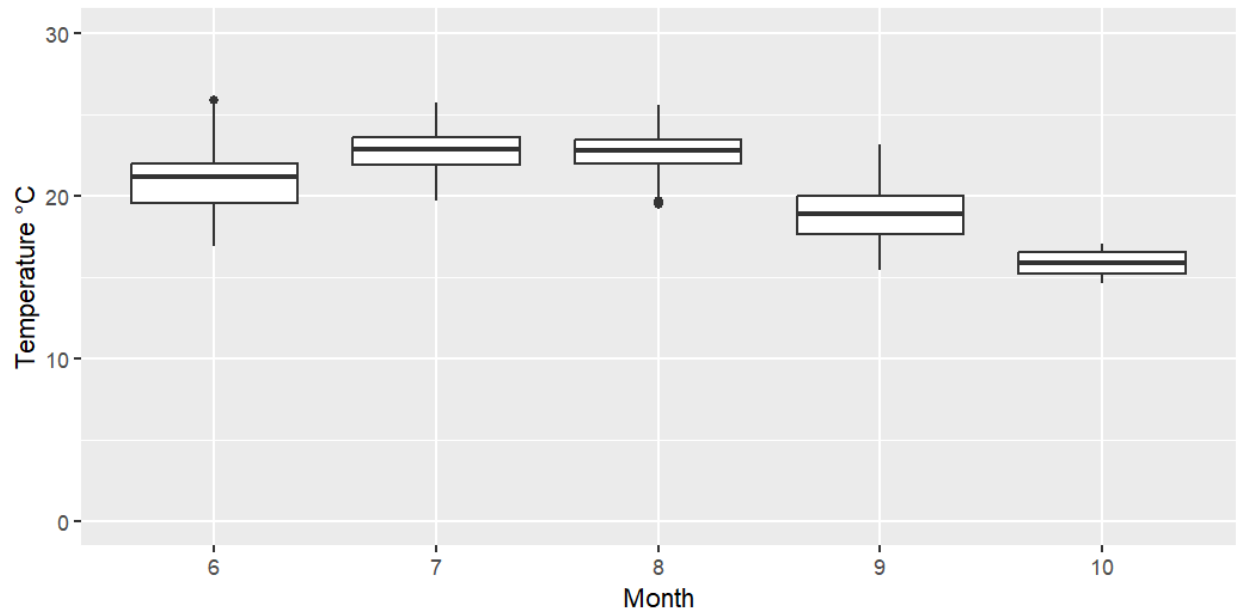


Table 41 Minimum, Maximum, and Average Temperatures at Umpqua River at James Wood Boat Ramp (37508-ORDEQ) from 2016-2018 and 2020

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
May	432	16.8	21.3	18.8
June	1846	16.6	24.7	21.0
July	5952	19.2	26.9	23.3
August	5952	18.5	26.3	23.2
September	5520	13.5	23.5	18.5
October	267	14.2	17.2	15.4

Figure 114: Daily Maximum and Minimum Temperatures at Umpqua River at James Wood Boat Ramp (37508-ORDEQ)

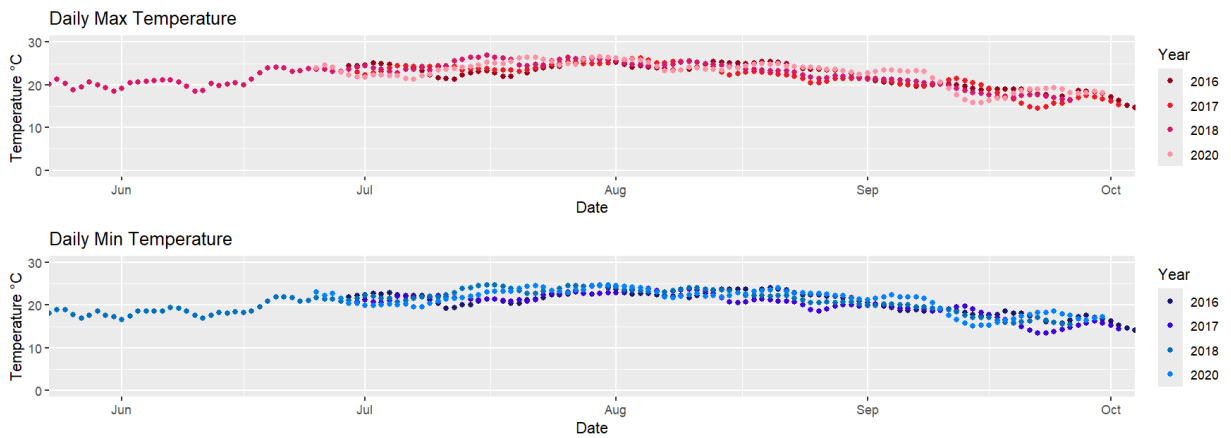


Figure 115: 7DADM Temperature at Umpqua River at James Wood Boat Ramp (37508-ORDEQ)

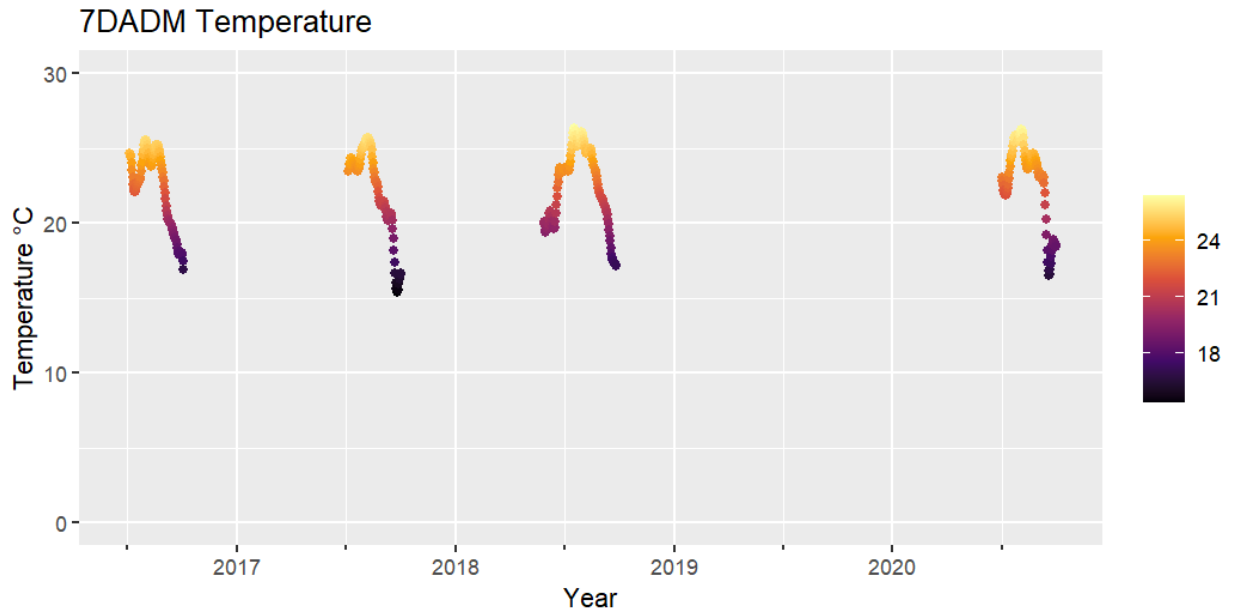


Figure 116: 7DADM Temperature Boxplot at Umpqua River at James Wood Boat Ramp (37508-ORDEQ)

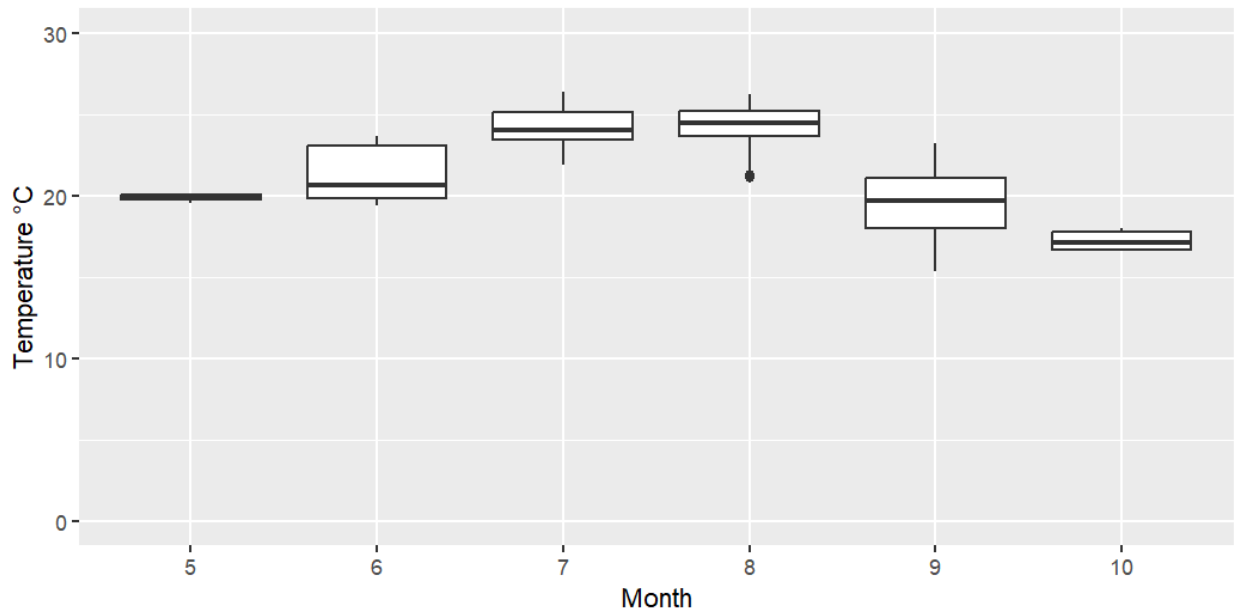


Table 42 Minimum, Maximum, and Average Temperatures at Halfway Creek Tributary at River Mile 0.29 (21831-ORDEQ) from 1999

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
June	779	10.1	15.2	12.7
July	1488	10.3	16.9	13.5
August	1488	11.7	16.8	14.7
September	1440	7.1	13.8	11.9
October	264	7.5	10.5	9.3

Figure 117: Daily Maximum and Minimum Temperatures at Halfway Creek Tributary at River Mile 0.29 (21831-ORDEQ)

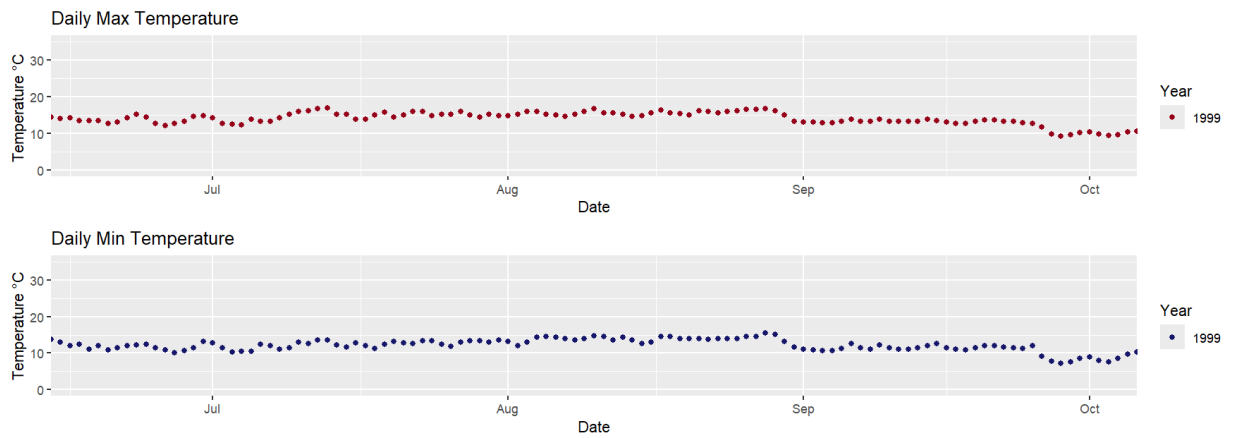


Figure 118: 7DADM Temperature at Halfway Creek Tributary at River Mile 0.29 (21831-ORDEQ)

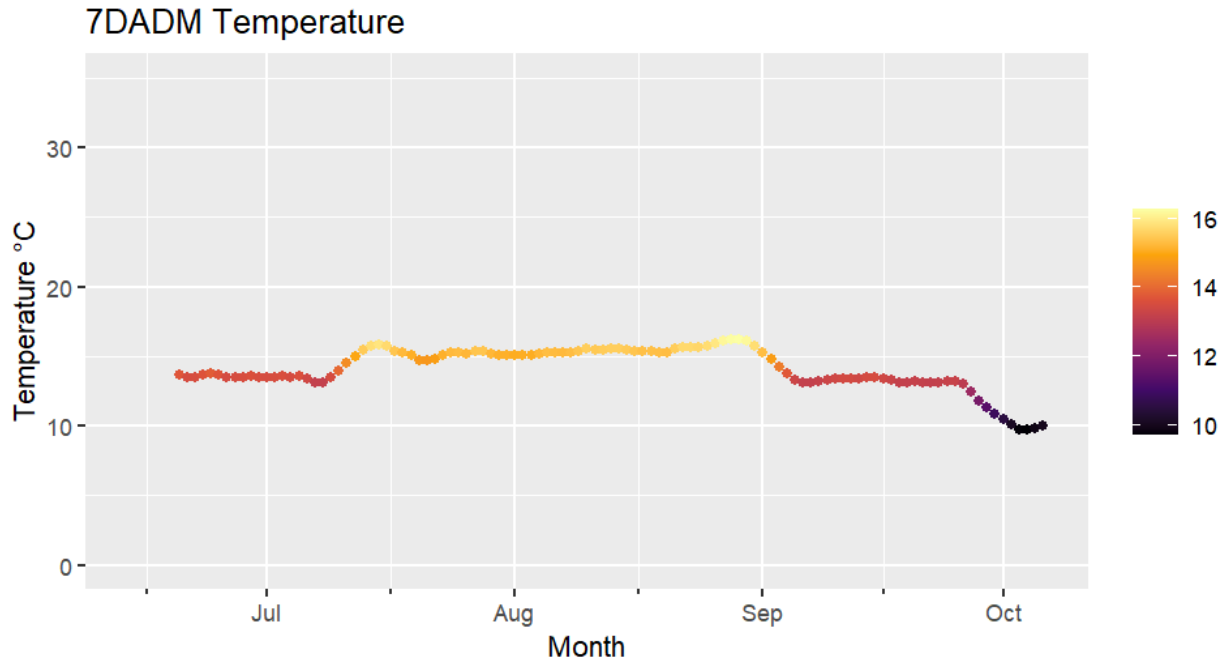


Figure 119: 7DADM Temperature Boxplot at Halfway Creek Tributary at River Mile 0.29 (21831-ORDEQ)

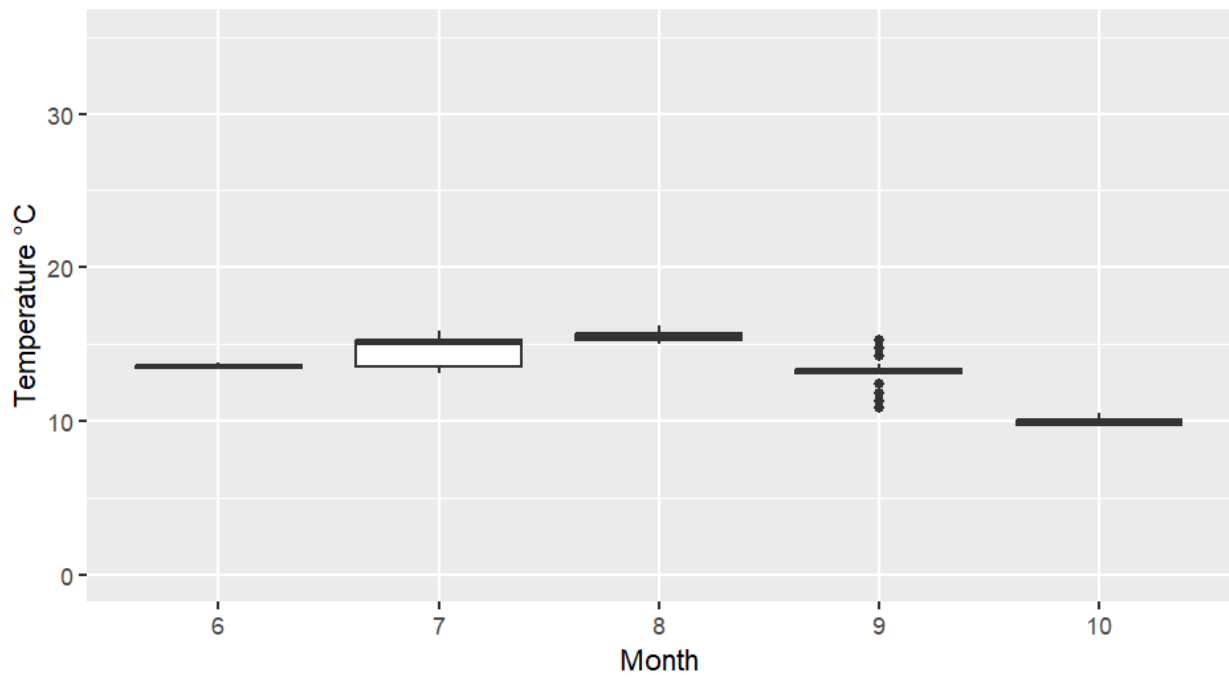


Table 43 Minimum, Maximum, and Average Temperatures at Middle Fork Smith River at River Mile 0.29 (23838-ORDEQ) from 2000

Month	Count of Daily Values	Minimum Temperature (°C)	Maximum Temperature (°C)	Average Temperature (°C)
July	987	12.0	20.6	15.8
August	1488	12.0	20.6	15.5
September	898	11.2	16.6	13.9

Figure 120: Daily Maximum and Minimum Temperatures at Middle Fork Smith River at River Mile 0.29 (23838-ORDEQ)

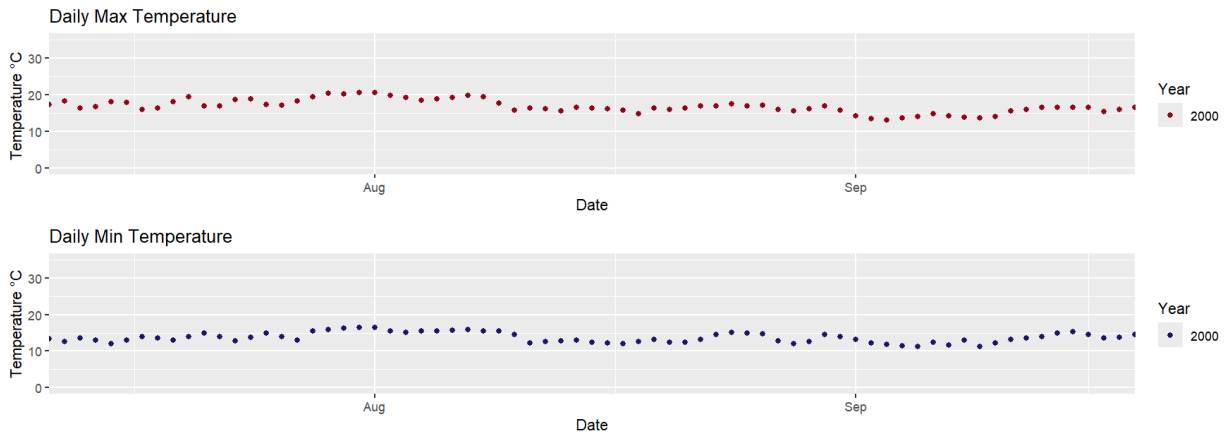


Figure 121: 7DADM Temperature at Middle Fork Smith River at River Mile 0.29 (23838-ORDEQ)

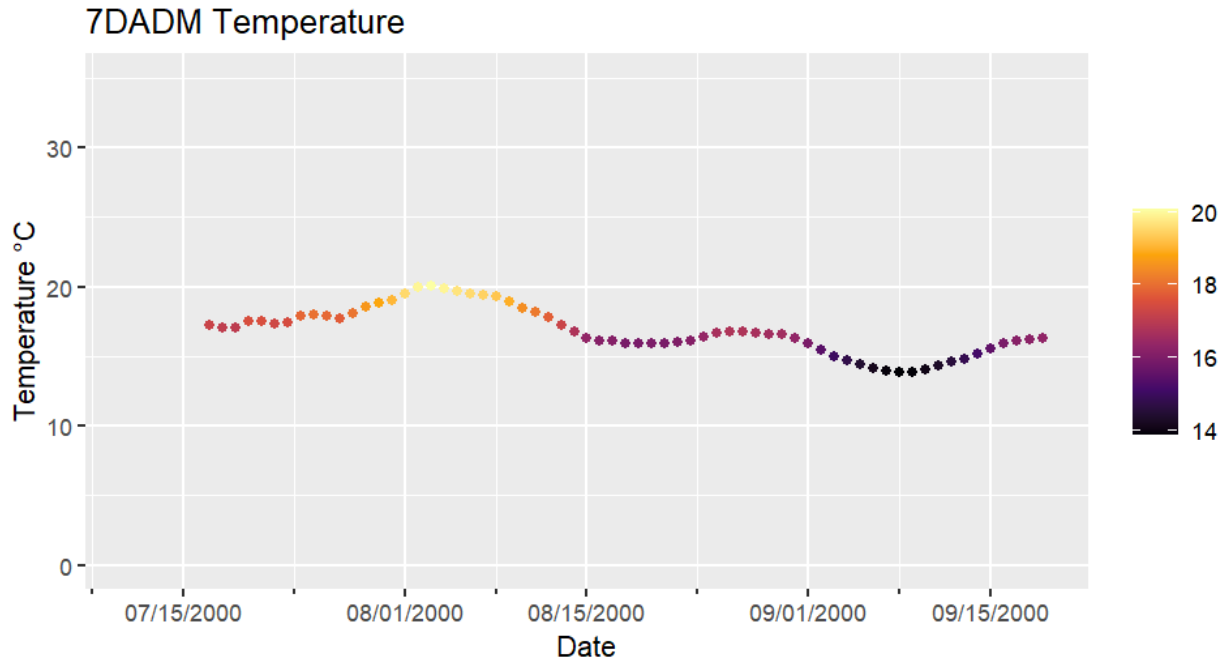


Figure 122: 7DADM Temperature Boxplot at Middle Fork Smith River at River Mile 0.29 (23838-ORDEQ)

