

## Appendix L:

### *Weather*

#### **Appendix L Tables**

Table L1. Temperature (C) and Precipitation (mm) Summary

Phase 1: North Central District Receptor, Ambient, and Quality Control Sites

Table L2. Temperature (C) and Precipitation (mm) Summary

Phase 1: Yakima Valley Receptor, Ambient, and Quality Control Sites

Table L3. Temperature (C) and Precipitation (mm) Summary

Phase 1: North Central District and Yakima Valley Perimeter Sites

Table L4. Temperature (C) and Precipitation (mm) Summary

Phase 2: Yakima Valley Perimeter Site

Table L5. Temperature (C) and Precipitation (mm) Summary

Phase 2: Yakima Valley Receptor, Ambient, and Quality Control Sites

## **Appendix L: Temperature, Precipitation, and Weather Observations Tables**

### **Key Terms**

- C= Celsius
- mm= millimeters
- min= minimum temperature in Celsius
- max= maximum temperature in Celsius
- n/a= non applicable
- QC= quality control co-located at a receptor site

**Table L1. Temperature (C) and Precipitation (mm)  
 Summary**

**Phase 1: North Central District Receptor, Ambient, and Quality Control Sites**

Site/ Month	Start Day	Duration	Temperature			Precipitation	Field Observations
			Min	Max	Mean		
Note: The temperatures and precipitation data were from 12:00pm - 11:59am.							
<b>Ambient</b>							
<b>April</b>	3	24:00	5.7	12.6	8.5	0	Windy, sun.
	6	24:00	5.7	22.1	13.0	0	Sun.
	8	24:00	8.5	21.4	14.5	0.254	Cloudy.
	10	24:00	-1.7	14.0	7.0	0	Sunny.
	12	24:00	4.2	17.1	10.4	0	Sunny.
	14	24:00	3.5	16.2	10.7	0	Sunny.
	16	24:00	6.2	15.1	10.8	0	Sun, light wind.
	18	24:00	3.5	15.7	10.4	0	Sun, wind.
	20	24:00	0.9	16.5	9.2	0.508	Wet, light snow flurries.
	22	24:00	7.4	20.0	14.6	0.762	Overcast.
	24	24:00	11.5	20.9	14.8	0	Overcast, slight breeze.
	26	24:00	5.3	19.8	13.0	0	Cool, breezy, clear skies.
	28	24:00	3.3	20.2	12.5	0	Partial overcast.
30	24:00	9.9	19.5	14.2	0	Sunny, cool.	
<b>May</b>	2	24:00	3.2	17.7	11.0	0	Hazy, cool.
<b>Receptor 1</b>							
<b>April</b>	3	24:00	N/A	N/A	N/A	0	No weather data at this site for 4/3/07.
	6	24:00	6.9	21.3	13.4	0	Partly cloudy.
	8	24:00	7.9	20.4	13.4	0	Cloudy.
	10	24:00	-0.7	12.9	6.7	0	Sunny.
	12	24:00	3.8	15.6	9.3	0	Sunny.
	14	24:00	3.1	15.1	9.4	0	Sun, strong wind.
	16	24:00	5.1	13.9	9.6	0	Sun.
	18	24:00	2.7	14.5	8.7	0	Sun, wind.
	20	24:00	3.3	14.8	9.0	0	Overcast and dry.
	22	24:00	7.4	18.6	13.0	0.762	Overcast and windy.
	24	24:00	9.9	19.5	13.5	0.508	Windy.
	26	24:00	6.1	18.4	12.1	0	Warm and sunny.
	28	24:00	6.2	19.2	12.3	0	Overcast.
30	24:00	8.6	17.1	12.4	0	Sunny, windy.	
<b>May</b>	2	24:00	4.1	16.7	9.9	0	Sunny.
<b>Receptor 2</b>							
<b>Receptor 3 and co-located QC at Receptor 3</b>							
<b>April</b>	3	24:00	5.0	12.5	7.9	0	Overcast.
	6	24:00	4.7	22.1	13.0	0	Sunny, partly cloudy.
	8	24:00	8.2	19.6	13.4	0	Cloudy.
	10	24:00	0.7	12.5	6.7	0	Sunny.
	12	24:00	4.5	16.3	10.9	0	Sunny.
	14	24:00	4.0	16.9	10.7	0	Sun, strong wind.
	16	24:00	6.4	14.2	10.1	0	Sun, light wind.
	18	24:00	3.9	15.8	9.9	0	Sun, wind.
	20	24:00	2.6	16.1	9.7	0	Cool, broken clouds, and dry.
	22	24:00	3.9	19.7	13.2	0	Overcast and windy.
	24	24:00	12.5	26.6	15.7	0.254	Overcast and breezy.
	26	24:00	6.6	19.7	13.4	0	Breezy but warm and sunny.
	28	24:00	2.6	18.5	11.3	0	Sunny, breezy.
30	24:00	9.5	19.5	14.1	0	Sunny, windy.	
<b>May</b>	2	24:00	6.6	16.8	12.1	0	Hazy, cool.

**Table L2. Temperature (C) and Precipitation (mm)  
 Summary  
 Phase 1: Yakima Valley Receptor, Ambient, and Quality Control Sites**

Site/ Month	Start Day	Duration	Temperature			Precipitation	Field Observation
			Min	Max	Mean		
Note: The temperatures and precipitation data were from 12:00pm - 11:59am.							
<b>Ambient</b>							
<b>March</b>	6	24:00	2.2	15.2	7.5	0	No comment in field data sheets.
	8	24:00	-0.2	13.0	6.4	0	Sunny and warm.
	10	24:00	9.8	20.8	13.5	0	Partly cloudy.
	11	24:00	14.8	21.8	18.1	0	Sunny, windy, aprox 60's.
	12	24:00	-1.2	19.9	8.9	0	Partly sunny, cool with breeze.
	14	24:00	-1.6	13.7	6.1	0	Windy, cloudy, and partly sunny.
	16	24:00	1.2	17.1	9.1	0	Warm, breeze on and off.
	18	24:00	7.4	21.3	13.8	0	Very windy, sunny.
	20	24:00	-3.4	13.5	5.0	0.254	Windy, cold, and cloudy.
	22	24:00	1.2	15.4	9.4	0	Very windy, cloudy, ~ 60's.
	24	24:00	8.2	19.3	13.7	0	Slightly windy, sunny, low 70's. Wind from south to north.
	26	24:00	5.3	14.1	9.0	0	Cool, cloudy, no wind.
	27	24:00	2.9	14.6	8.6	0	No comment in field data sheets.
	28	24:00	0.9	16.5	8.4	0.254	Colder and breezy, snow flurries.
	30	24:00	4.7	20.9	12.6	0	Windy (NW to SE), 30's, and cloudy.
<b>April</b>	1	24:00	-1.3	13.7	5.6	0	No comment in field data sheets.
	3	24:00	7.1	12.9	9.4	0	Cloudy, warm, ~high 50's, and calm.
	6	24:00	13.1	22.7	17.0	0	Cloudy, ~50's, windy (SW to NE)
	7	24:00	7.0	19.8	13.9	0.508	Windy (SW to NE), cloudy, ~50's.
	8	24:00	8.6	22.2	13.5	0	Calm, cloudy, ~50's.
	10	24:00	0.7	15.3	7.6	0	Windy (SW to NE), cloudy, high 50's.
<b>Receptor 1 (no sampling on March 8, 10)</b>							
<b>Receptor 2 and co-located QC at Receptor 2</b>							
<b>March</b>	8	24:00	-1.3	12.1	6.2	0	Sunny and warm.
	10	24:00	8.1	21.3	13.4	0	Partly cloudy.
	11	24:00	13.5	21.7	17.6	0	Sunny, very windy, ~60's.
	12	24:00	1.7	19.8	9.3	0	Cloudy, no wind, low 70's.
	14	24:00	-3.1	13.6	5.9	0	Cool, breezy, cloudy, and partly sunny.
	16	24:00	-0.3	16.7	8.0	0	Warm and breezy.
	18	24:00	7.0	21.1	13.6	0	Sunny, little windy, ~ 70's.
	20	24:00	-4.6	13.7	4.4	0	Cold and windy.
	22	24:00	-0.9	15.0	8.7	0	Slightly windy, sunny, and ~ 70's.
	24	24:00	8.7	20.2	13.7	0	Slightly windy, sunny, low 70's. Wind from south to north.
	26	24:00	5.4	14.5	9.0	0	Cloudy, cold, getting windy.
	27	24:00	0.5	15.6	8.2	0	Cool.
	28	24:00	-1.8	16.2	7.5	1.27	Snow showers, wet and cold.
	30	24:00	4.8	21.6	13.2	0	Windy (NW to SE), 30's, and cloudy.
<b>April</b>	1	24:00	-3.9	14.1	4.6	0	Sunny, warm, and slight breeze.
	3	24:00	7.0	12.6	9.4	0	Cloudy, warm, ~high 50's, and calm.
	6	24:00	9.2	23.6	17.0	0	Cloudy, ~50's, windy (SW to NE)

**Table L2. Temperature (C) and Precipitation (mm)  
 Summary  
 Phase 1: Yakima Valley Receptor, Ambient, and Quality Control Sites (cont.)**

Site/ Month	Start Day	Duration	Min	Max	Mean	Precipitation	Field Observation
Note: The temperatures and precipitation data were from 12:00pm - 11:59am.							
<b>Receptor 3</b>							
<b>March</b>	16	24:00	2.5	16.2	9.2	0	Windy and cool.
	18	24:00	5.6	20.3	11.7	0	No samples collected at this site.
	20	24:00	-2.6	10.8	4.0	0	Windy, cold, and cloudy.
	22	24:00	1.9	13.6	8.2	0	Very windy, cloudy, ~ 60's.
	24	24:00	7.6	21.3	12.4	0	No wind, sunny, low 70's.
	26	24:00	3.9	11.5	7.6	0	Cool, cloudy, windy.
	27	24:00	0.1	13.4	7.8	0	No comment in field data sheets.
	28	24:00	-0.2	15.2	7.4	3.048	Small snow flurries, not as wet.
	30	24:00	5.1	20.0	12.0	0	Calm, sunny, ~ 40's.
<b>April</b>	1	24:00	0.1	11.6	4.8	0	Slight breeze.
	3	24:00	4.7	11.2	7.4	0	Cloudy, warm, ~high 50's, and calm.
	6	24:00	10.5	21.1	15.4	0.508	Cloudy, ~50's, windy (SW to NE)
	7	24:00	8.2	19.7	13.9	0	Windy (SW to NE), cloudy, ~50's.
	8	24:00	4.9	20.5	12.0	0	Little windy (SW to NE), cloudy, and ~50's.
	10	24:00	-0.1	12.9	6.3	0	Windy (SW to NE), cloudy, high 50's.

**Table L3. Temperature (C) and Precipitation (mm) Summary  
 Phase 1: North Central District and Yakima Valley Perimeter Sites**

Day	Sample Period	Start Date	Start Time	End Date	End Time	Duration	Temperature			Precipitation (mm)	Comments
							Min	Max	Mean		
<b>North Central District</b>											
1	Pre-spray	6-Apr-08	14:22	7-Apr-08	15:03	24:41	2.03	12.07	5.10	0.254	No weather comments on field data sheets.
2	Spray, a.m.	7-Apr-08	8:13	7-Apr-08	13:57	5:44	3.91	9.74	7.55	0.254	No weather comments on field data sheets.
2	Spray, p.m.	7-Apr-08	13:58	7-Apr-08	20:17	6:19	5.84	10.91	7.75	0	No weather comments on field data sheets.
2	Spray, night	7-Apr-08	20:28	8-Apr-08	7:59	11:31	0.66	6.14	3.37	0	No weather comments on field data sheets.
3	Post-spray 1, a.m.	8-Apr-08	8:15	8-Apr-08	19:43	11:28	2.10	9.23	7.02	0	No weather comments on field data sheets.
3	Post-spray 1, p.m.	8-Apr-08	19:49	9-Apr-08	7:31	11:42	1.84	6.53	3.64	0	No weather comments on field data sheets.
4	Post Spray 2	9-Apr-08	7:39	10-Apr-08	7:50	24:11	3.80	11.73	7.40	0	No weather comments on field data sheets.
<b>Yakima Valley</b>											
1	Pre-spray	31-Mar-08	14:22	1-Apr-08	15:03	24:41	-0.91	10.29	4.18	0	No weather comments on field data sheets.
2	Spray, a.m.	2-Apr-08	10:20	2-Apr-08	18:27	8:07	6.94	13.67	10.66	0	Sunny
2	Spray, p.m.	2-Apr-08	18:28	3-Apr-08	0:46	6:18	5.65	12.06	8.20	0	No weather comments on field data sheets.
2	Spray, night	3-Apr-08	0:47	3-Apr-08	10:31	9:44	1.72	9.08	4.47	0	No weather comments on field data sheets.
3	Post-spray 1, a.m.	3-Apr-08	10:32	3-Apr-08	20:11	9:39	8.96	17.74	14.38	0	No weather comments on field data sheets.
3	Post-spray 1, p.m.	3-Apr-08	20:37	4-Apr-08	8:17	11:40	6.07	13.87	8.83	0	No weather comments on field data sheets.
4	Post Spray 2	4-Apr-08	8:31	5-Apr-08	7:40	23:09	-0.28	11.89	6.80	0	No weather comments on field data sheets.
* Data based on observed data collected by UW											

**Table L4. Temperature (C) and Precipitation (mm) Summary  
 Phase 2: Yakima Valley Perimeter Site**

Temperature											
Day	Sample Period	Start Date	Start Time	End Date	End Time	Duration	Min	Max	Mean	Precipitation	Comments
1	Pre-spray	19-Jun-08	9:16	20-Jun-08	9:38	24:22	14.03	27.55	20.71	0	No weather comments on field data sheets.
2	Spray, a.m.	20-Jun-08	18:03	21-Jun-08	0:50	6:47	20.81	32.54	26.00	0	No weather comments on field data sheets.
2	Spray, p.m.	21-Jun-08	1:05	21-Jun-08	8:28	7:23	17.41	21.82	19.66	0	Warm and scattered clouds.
3	Post-spray 1, a.m.	21-Jun-08	8:57	21-Jun-08	20:56	11:59	21.18	30.24	25.77	0	Cloudy and muggy.
3	Post-spray 1, p.m.	21-Jun-08	21:13	22-Jun-08	9:08	11:55	13.06	21.19	16.77	0	Clear skies and hot.
4	Post spray 2	22-Jun-08	9:18	23-Jun-08	9:55	24:37	11.80	26.83	19.20	0	No weather comments on field data sheets.
* Data based on observed data collected by UW											

**Table L5. Temperature (C) and Precipitation (mm)  
 Summary  
 Phase 2: Yakima Valley Receptor, Ambient, and Quality Control Sites**

Site/ month	Start Day	Duration	Temperature			Precipitation	Field observation
			Min	Max	Mean		
Note: The temperatures and precipitation data were from 12:00pm - 11:59am.							
<b>Ambient</b>							
<b>May</b>	21	24:00	7.4	19.9	13.7	0	Windy, sunny, and partly cloudy.
	24	24:00	13.9	25.1	19.5	0.508	Sunny and warm- rain last night.
	27	24:00	15.5	25.5	19.8	0.508	Overcast and warm.
	30	24:00	10.6	26.0	18.0	0	Sunny, warm, no breeze, and clear skies.
<b>June</b>	2	24:00	7.7	23.6	15.7	0	Little windy, wind from SE to NW. Low 80's.
	5	24:00	7.4	18.3	12.4	0	Cloudy, little raining, little windy, high 60's, wind from West to East.
	8	24:00	6.0	23.8	16.6	0	Sunny, warm, and calm.
	11	24:00	5.7	22.1	15.2	0	Windy, high 60's, and partly cloudy
	13	24:00	14.7	28.2	20.9	3.556	Sunny, calm, high 70's.
	17	24:00	13.4	25.1	19.3	0	Warm, sunny, clear skies.
	20	24:00	16.0	32.0	23.4	0	Cloudy, calm, warm (80's).
	23	24:00	12.4	23.9	18.7	0	Muggy, overcast, and warm.
	26	24:00	14.9	28.6	21.7	0	Clear skies and cool.
	29	24:00	22.6	38.3	30.1	0	No samples collected.
<b>July</b>	2	24:00	22.4	33.6	28.0	0.508	Warm (high 80's), calm, and sunny.
	5	24:00	13.0	28.4	21.3	0	Cloudy, high 80's, and calm.
	8	24:00	19.6	33.3	26.5	0	Warm.
	11	24:00	10.0	26.7	19.3	0	Clear skies, light breeze, sunny, and warm.
	14	24:00	15.6	34.4	25.5	0	80's, no clouds, and calm.
	17	24:00	18.8	32.4	24.7	0	Warm and sunny.
	20	24:00	18.3	32.9	25.8	0	80's, little windy, partly cloudy.
	23	24:00	11.5	27.5	20.1	0	70's, little windy, not cloudy.
	26	24:00	18.1	31.2	24.3	0	Warm and calm (from field notebook).
	29	24:00	13.2	24.7	19.9	0	High 60's, cloudy, little raining.





**Table L5. Temperature (C) and Precipitation (mm)  
 Summary  
 Phase 2: Yakima Valley Receptor, Ambient, and Quality Control Sites (cont.)**

Site/ month	Start Day	Duration	Min	Max	Mean	Precipitation	Field observation
Note: The temperatures and precipitation data were from 12:00pm - 11:59am.							
<b>Receptor 5</b>							
<b>May</b>	21	24:00	7.4	19.9	13.7	0	Windy and partly cloudy
	24	24:00	13.9	25.1	19.5	0.254	Sunny and warm
	27	24:00	15.5	25.5	19.8	0	Warm, overcast, muggy.
	30	24:00	10.6	26.0	18.0	0	Sunny, warm, no breeze, and clear skies
<b>June</b>	2	24:00	7.7	23.6	15.7	0	Wind from West to East
	5	24:00	7.4	18.3	12.4	0.254	Cloudy, calm, high 60's.
	8	24:00	6.0	23.8	16.6	0	Sunny, warm, and calm.
	11	24:00	5.7	22.1	15.2	0	Windy, high 60's, and partly cloudy
	13	24:00	14.7	28.2	20.9	0	Sunny, calm, high 70's.
	17	24:00	13.4	25.1	19.3	0	Warm, sunny, clear skies.
	20	24:00	16.0	32.0	23.4	0	Cloudy, calm, warm (80's).
	23	24:00	12.4	23.9	18.7	0	Muggy, overcast, and warm.
<b>July</b>	26	24:00	14.9	28.6	21.7	0	Clear skies and getting warm.
	29	24:00	22.6	38.3	30.1	0	No samples collected.
	2	24:00	22.4	33.6	28.0	0	Warm (high 80's), calm, and sunny.
	5	24:00	13.0	28.4	21.3	0	Cloudy, high 80's, and calm.
	8	24:00	19.6	33.3	26.5	0	Warm, slight breeze.
	11	24:00	10.0	26.7	19.3	0	Sunny, warm, clear skies.
	14	24:00	15.6	34.4	25.5	0	80's, no clouds, and calm.
	17	24:00	18.8	32.4	24.7	0	Warm and sunny.
	20	24:00	18.3	32.9	25.8	0	80's, little windy, partly cloudy.
	23	24:00	11.5	27.5	20.1	0	70's, little windy, not cloudy.
26	24:00	18.1	31.2	24.3	0	Warm and calm (from field notebook).	
29	24:00	13.2	24.7	19.9	0	High 60's, cloudy, little raining.	