

**APPENDIX E:**

**SURFACE AND UPPER AIR METEOROLOGICAL STATIONS  
AND PRECIPITATION STATIONS USED IN THE ANALYSIS**

## **Appendix E CALMET Input Data**

Table E.1	Surface Meteorological Stations Used in the Development of the CALMET Wind Fields
Table E.2	Upper Air Meteorological Stations Used in the Development of the CALMET Wind Fields
Table E.3	Precipitation Stations Used in the Development of the CALMET Wind Fields

Table E.1 Surface Meteorological Stations Used in the Development of the CALMET Wind Fields

Station Name	Station Type	X (Lambert Conformal km)	Y (Lambert Conformal km)	Model ID
Amoco	Industrial	-188.837	-117.730	1001
Ande	RAWS	-31.013	-12.050	2001
Baggs	Zirkel	74.785	-166.360	4001
Beaver	WYDOT	20.818	4.010	3001
BitterCreek	WYDOT	-2.654	-97.240	3002
Burr	RAWS	-141.055	140.200	2002
Camp	RAWS	79.256	-21.460	2003
Casper	NWS	163.698	41.900	6007
Centennial	NDDN	194.065	-130.500	5002
Cheyenne	NWS	329.457	-149.820	6004
Cody	NWS	-35.984	211.760	26700
Con	WYDOT	68.278	-89.450	2004
Cow	RAWS	78.342	-137.150	4002
Craig	Zirkel	78.747	-225.580	2005
Denver	NWS	335.813	-324.410	6001
Denver	NWS	335.813	-324.410	6002
Elkhorn	RAWS	-82.435	121.920	7001
Evan	NWS	-200.631	-133.530	1002
Exxon	Industrial	-128.247	-75.080	3004
FirstDivide	WYDOT	-179.798	-132.420	1003
GenC	Industrial	-97.396	-102.530	2006
Getc	RAWS	-213.753	-23.290	2007
Grac	RAWS	-261.735	4.030	2008
Grand Teton	RAWS	-167.686	128.380	7002
Grand Junction	NWS	18.459	-376.040	6003
Hayden	NWS	115.118	-241.220	3005
Hiland	WYDOT	96.447	59.000	7004
I-25 Divide	WYDOT	147.707	151.128	90001
Idaho Falls	NWS	-274.135	110.280	6005
Jackson	NWS	-169.576	115.150	1004
Jun	Zirkel	42.655	-225.920	1005
Lander	NWS	-14.192	29.040	3006
Meeteetsee	WYDOT	-24.607	184.857	90002
Naughton	Industrial	-163.727	-82.890	2009
OCI	Industrial	-89.941	-87.570	2010
Ogden	NWS	-245.962	-154.600	7006
Pat	WYDOT	134.381	2.500	2011
Pine	NDDN	-97.579	41.610	7005
Pole	RAWS	-259.041	42.350	6008
Rasp	RAWS	-114.350	100.160	2012
Rawlins	NWS	108.284	-79.760	7007
Riley	RAWS	-152.455	-5.340	1006
Riverton	NWS	3.930	48.370	7008
RockSprings	NWS	-41.850	-102.050	2013
Salt Lake City	NWS	-247.589	-219.230	26865
Snider	RAWS	-156.708	-4.430	25785
SodaSprings	NWS	-222.333	-13.320	26764
TG	Industrial	-107.679	-91.600	26763
Vernal	NWS	-62.525	-245.160	26664
Wind	RAWS	-44.560	46.200	90002
Worland	NWS	46.380	152.760	24029

Table E.2 Upper Air Meteorological Stations Used in the Development of the CALMET Wind Fields

<b>Station Name</b>	<b>X (Lambert Conformal km)</b>	<b>Y (Lambert Conformal km)</b>	<b>Model ID</b>
Denver	321.444	-281.130	23062
Grand Junction	2.012	-369.260	23066
Lander	-14.429	28.720	24021
Salt Lake City	-278.983	-185.610	24127

Table E.3 Precipitation Stations Used in the Development of the CALMET Wind Fields

<b>Model ID</b>	<b>X (Lambert Conformal km)</b>	<b>Y (Lambert Conformal km)</b>	<b>Station Code</b>
P001	248.371	-246.495	50183
P002	271.071	-265.462	50843
P003	-34.328	-249.360	52286
P004	263.892	-222.585	52354
P005	283.687	-205.576	53005
P006	272.352	-196.997	53007
P007	221.009	-251.138	53500
P008	279.732	-241.676	55121
P009	49.568	-272.559	55484
P010	180.395	-171.510	55982
P011	231.323	-193.186	57296
P012	244.992	-266.480	57648
P013	192.658	-268.213	59096
P014	-210.422	143.269	109065
P015	-211.549	-170.572	421590
P016	-70.554	-173.625	422864
P017	-181.985	-228.924	423624
P018	-159.634	-211.499	425815
P019	-124.262	-215.930	426127
P020	-219.022	-191.884	426374
P021	-116.548	-243.027	427395
P022	-213.999	-245.975	428371
P023	-124.144	-0.613	480697
P024	28.642	93.249	481000
P025	163.942	41.585	481570
P026	249.931	26.445	482693
P027	266.059	48.621	482696
P028	-84.349	106.216	482715
P029	143.111	-141.842	483050
P030	-194.548	-146.643	483100
P031	-172.801	102.667	484910
P032	205.589	-154.599	484930
P033	-14.429	28.720	485390
P034	235.892	-130.187	485420
P035	188.160	-67.147	486120
P036	-157.462	141.698	486440
P037	-144.286	-136.431	486555
P038	-29.676	-132.586	486597
P039	29.069	0.067	486875
P040	134.830	-7.493	487105
P041	123.092	53.124	487375
P042	108.284	-79.755	487533
P043	13.119	51.934	487760
P044	-41.609	-102.056	487845
P045	142.439	-111.382	487995
P046	130.212	-41.687	488070
P047	194.627	-16.699	488192
P048	91.687	136.832	488858
P049	27.206	118.275	488875

Table E.3 Precipitation Stations Used in the Development of the CALMET Wind Fields

Model ID	X (Lambert Conformal km)	Y (Lambert Conformal km)	Station Code
P050	-11.646	125.423	488888
P051	-210.000	62.000	31084
P052	-210.000	10.000	31071
P053	-210.000	-30.000	31061
P054	-210.000	-78.000	31049
P055	-210.000	-110.000	31041
P056	-210.000	-150.000	31031
P057	-210.000	-218.000	31014
P058	-190.000	122.000	36099
P059	-190.000	90.000	36091
P060	-190.000	10.000	36071
P061	-190.000	-10.000	36066
P062	-190.000	-110.000	36041
P063	-190.000	-190.000	36021
P064	-178.000	142.000	39104
P065	-170.000	50.000	41081
P066	-170.000	-10.000	41066
P067	-170.000	-50.000	41056
P068	-170.000	-158.000	41029
P069	-162.000	22.000	43074
P070	-154.000	114.000	45097
P071	-150.000	-90.000	46046
P072	-150.000	-182.000	46023
P073	-138.000	82.000	49089
P074	-130.000	118.000	51098
P075	-130.000	30.000	51076
P076	-110.000	-190.000	56021
P077	-90.000	82.000	61089
P078	-90.000	50.000	61081
P079	-90.000	2.000	61069
P080	-90.000	-70.000	61051
P081	-90.000	-190.000	61021
P082	-70.000	130.000	66101
P083	-70.000	90.000	66091
P084	-70.000	50.000	66081
P085	-70.000	10.000	66071
P086	-58.000	-222.000	69013
P087	-50.000	130.000	71101
P088	-50.000	30.000	71076
P089	-50.000	-198.000	71019
P090	-30.000	90.000	76091
P091	-30.000	10.000	76071
P092	-30.000	-222.000	76013
P093	-10.000	-30.000	81061
P094	-10.000	-70.000	81051
P095	-10.000	-222.000	81013
P096	10.000	-130.000	86036
P097	30.000	-50.000	91056
P098	30.000	-98.000	91044

Table E.3 Precipitation Stations Used in the Development of the CALMET Wind Fields

<b>Model ID</b>	<b>X (Lambert Conformal km)</b>	<b>Y (Lambert Conformal km)</b>	<b>Station Code</b>
P099	30.000	-178.000	91024
P100	50.000	-250.000	96006
P101	70.000	50.000	101081
P102	70.000	-30.000	101061
P103	70.000	-70.000	101051
P104	90.000	-110.000	106041
P105	90.000	-150.000	106031
P106	90.000	-230.000	106011
P107	102.000	94.000	109092
P108	102.000	-190.000	109021
P109	106.000	22.000	110074
P110	106.000	-30.000	110061
P111	106.000	-258.000	110004
P112	122.000	-130.000	114036
P113	130.000	130.000	116101
P114	130.000	-154.000	116030
P115	130.000	-218.000	116014
P116	150.000	70.000	121086
P117	150.000	-38.000	121059
P118	150.000	-178.000	121024
P119	154.000	-198.000	122019
P120	154.000	-238.000	122009
P121	162.000	-38.000	124059
P122	170.000	-18.000	126064
P123	182.000	22.000	129074
P124	182.000	-122.000	129038
P125	182.000	-190.000	129021
P126	182.000	-230.000	129011
P127	210.000	130.000	136101
P128	210.000	62.000	136084
P129	210.000	-190.000	136021
P130	230.000	-18.000	141064
P131	230.000	-178.000	141024
P132	230.000	-230.000	141011
P133	250.000	-70.000	146051
P134	262.000	-118.000	149039