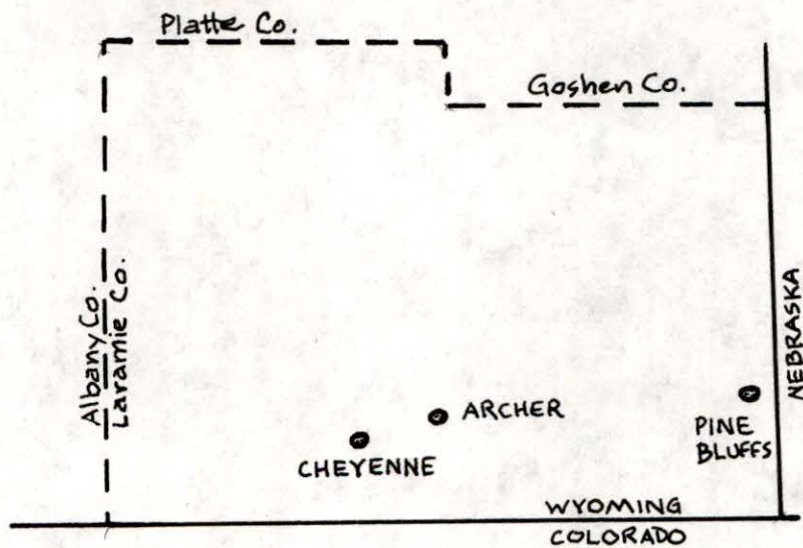


APPENDIX II.

CLIMATIC DATA FOR SELECTED STATIONS WITHIN THE RANGE OF
GAURA NEOMEXICANA SSP. COLORADENSIS



ARCHER, WY

(AG. EXP. STATION) ID# = 270

ELEV. = 6010 FT

LAT. = 41.15 LONG. = 104.65

PERIOD SPANNED: 1951-1980

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE (DEG. F.):													
AVG. DAILY MAXIMUM	38.8	42.1	45.4	55.0	65.7	77.3	85.7	83.6	75.2	64.2	47.9	41.6	60.4
AVG. DAILY MINIMUM	13.0	16.3	19.2	28.0	37.7	46.7	52.7	51.4	42.2	32.8	21.6	16.5	31.5
AVG. DAILY MEAN	25.9	29.2	32.3	42.0	52.2	62.0	69.2	67.5	58.7	48.6	34.7	29.0	45.9
—STANDARD DEVIATION	4.9	4.8	4.4	3.1	2.3	2.9	2.3	1.9	3.2	2.9	3.3	3.5	1.2
HIGHEST DAILY	64	71	77	82	95	104	102	101	99	88	76	68	104
LOWEST DAILY	-27	-29	-13	-6	17	26	34	34	18	6	-17	-28	-29
PRECIPITATION (INCHES):													
AVG. TOTAL PRECIPITATION	0.39	0.35	0.99	1.36	2.58	2.43	1.86	1.52	1.25	0.82	0.56	0.37	14.48
—STANDARD DEVIATION	0.39	0.23	0.64	0.65	1.37	1.31	1.20	0.77	0.92	0.72	0.38	0.33	3.09
GREATEST MONTHLY PROP.	2.15	0.93	2.63	2.95	5.38	5.30	5.83	3.61	4.48	3.05	1.32	1.43	5.83
LEAST MONTHLY PROP.	0.02	0.01	0.12	0.22	0.28	0.05	0.30	0.20	0.13	0.01	0.00	0.00	0.00
GREATEST DAILY PROP.	0.61	0.36	1.41	1.15	1.74	2.78	2.64	1.95	1.57	1.43	0.81	0.86	2.78
AVG. SNOWFALL	6.8	5.5	11.2	5.0	2.1	0.0	0.0	0.0	0.6	1.9	6.6	4.7	44.4
—STANDARD DEVIATION	6.7	4.3	6.7	5.4	4.2	0.0	0.0	0.0	1.3	3.3	4.4	4.9	13.9
MOST MONTHLY SNOWFALL	31.5	16.5	29.0	22.5	18.5	0.0	0.0	0.0	4.6	14.0	23.0	21.5	31.5
LEAST MONTHLY SNOWFALL	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEEPEST SNOW COVER	23.0	15.0	10.0	9.0	11.0	0.0	0.0	0.0	3.0	10.0	18.0	17.0	23.0
DEGREE DAYS:													
HEATING (BASE 65F) AVG.	1203	1001	1007	685	398	134	22	35	212	504	905	1112	7218
COOLING (BASE 65F) AVG.	0	0	0	0	2	44	151	111	24	0	0	0	332
GROWING (BASE 45F) AVG.	3	5	16	69	250	509	745	693	419	182	21	3	2915
AVG. NUMBER OF DAYS WITH:													
MAX TEMP 50F OR ABOVE	0.0	0.0	0.0	0.0	0.1	2.9	9.9	6.3	1.9	0.0	0.0	0.0	21.1
MAX TEMP 32F OR BELOW	8.8	6.0	5.5	1.3	0.1	0.0	0.0	0.0	0.0	0.4	4.4	6.9	33.4
MIN TEMP 32F OR BELOW	29.5	26.6	28.5	21.8	6.7	0.6	0.0	0.0	3.4	14.2	26.5	29.2	187.0
MIN TEMP 00F OR BELOW	5.6	2.6	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	13.4
SNOW COVER 1" OR MORE	12.1	10.0	9.6	2.2	0.4	0.0	0.0	0.0	0.1	0.5	4.8	8.5	48.2
PROP 0.01" OR MORE	4.3	4.6	6.9	7.5	10.9	10.4	10.6	9.7	6.6	4.5	4.5	3.9	84.4
PROP 0.10" OR MORE	1.4	1.2	2.9	4.1	5.8	5.2	5.2	4.1	3.3	2.1	2.0	1.3	38.6
PROP 0.50" OR MORE	0.0	0.0	0.4	0.8	1.7	1.5	0.9	0.7	0.5	0.4	0.1	0.1	7.1
PROP 1.00" OR MORE	0.0	0.0	0.1	0.0	0.5	0.5	0.2	0.1	0.2	0.1	0.0	0.0	1.7

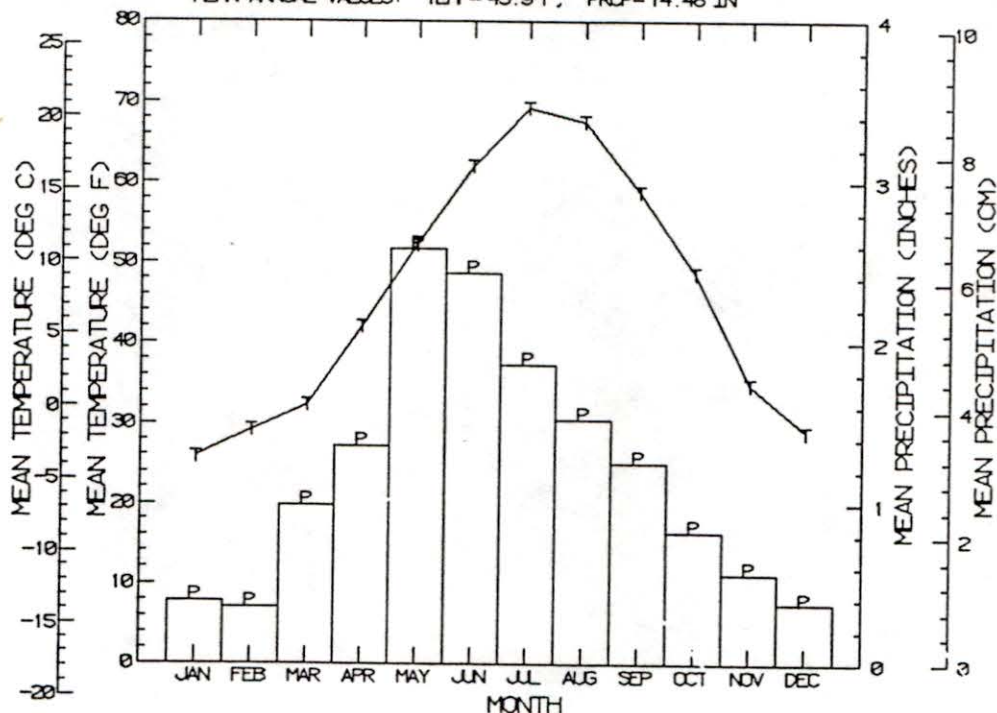
ARCHER, WY

(AG. EXP. STATION) ID# = 270

ELEV. = 6010 FT

LAT. = 41.15 LONG. = 104.65 PERIOD SPANNED: 1951-1980

MEAN ANNUAL VALUES: TEMP = 45.9 F, PROP = 14.48 IN



CHEYENNE, WY

(WSO - AIRPORT)

ID# = 1675

ELEV. = 6126 FT

LAT. = 41.15 LONG. = 104.82

PERIOD SPANNED: 1951-1980

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE (DEG F):													
AVG. DAILY MAXIMUM	37.4	40.6	43.6	53.9	64.5	75.3	83.0	80.7	72.0	60.8	46.5	40.4	58.2
AVG. DAILY MINIMUM	14.8	18.0	20.5	29.5	39.6	48.4	54.5	52.8	43.7	34.1	23.1	18.2	33.1
AVG. DAILY MEAN	26.1	29.3	32.0	41.7	52.1	61.9	68.7	66.8	57.9	47.5	34.8	29.3	45.7
—STANDARD DEVIATION	4.5	4.3	4.2	3.2	2.7	2.9	2.4	1.9	3.3	3.4	3.3	4.0	1.1
HIGHEST DAILY	63	71	73	82	90	100	98	95	93	83	73	66	100
LOWEST DAILY	-27	-24	-12	-8	17	25	38	36	22	7	-13	-24	-27
PRECIPITATION (INCHES):													
AVG. TOTAL PRECIPITATION	0.41	0.39	0.97	1.24	2.39	2.00	1.87	1.39	1.06	0.67	0.53	0.37	13.29
—STANDARD DEVIATION	0.48	0.40	0.62	0.68	1.20	1.14	1.12	0.75	0.96	0.56	0.50	0.36	2.99
GREATEST MONTHLY PROP.	2.71	2.16	2.54	2.82	5.35	5.32	5.01	3.12	4.52	2.26	2.48	1.50	5.35
LEAST MONTHLY PROP.	0.00	0.02	0.12	0.40	0.11	0.07	0.58	0.14	0.10	0.03	0.00	0.03	0.00
GREATEST DAILY PROP.	1.18	1.57	1.12	1.62	1.50	2.40	3.41	1.40	2.69	1.14	1.63	1.14	3.41
AVG. SNOWFALL	6.1	5.4	11.4	7.7	2.7	0.1	0.1	0.0	0.6	3.3	6.5	5.4	49.3
—STANDARD DEVIATION	6.4	4.3	7.0	5.2	4.7	0.3	0.3	0.0	1.5	4.8	6.1	5.2	17.5
MOST MONTHLY SNOWFALL	35.5	19.9	27.0	21.8	18.3	1.5	1.0	0.0	7.4	21.3	31.1	21.3	35.5
LEAST MONTHLY SNOWFALL	0.0	0.4	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
DEEPEST SNOW COVER	23.0	12.0	15.0	13.0	12.0	0.0	0.0	0.0	4.0	6.0	26.0	17.0	26.0
DEGREE DAYS:													
HEATING (BASE 65F) AVG.	1203	1009	1020	697	403	138	24	42	231	544	905	1105	7322
COOLING (BASE 65F) AVG.	0	0	0	0	3	43	140	97	17	0	0	0	300
GROWING (BASE 45F) AVG.	2	4	14	67	247	508	736	675	399	162	20	5	2839
AVG. NUMBER OF DAYS WITH:													
MAX TEMP 90F OR ABOVE	0.0	0.0	0.0	0.0	0.0	1.3	5.1	2.5	0.4	0.0	0.0	0.0	9.3
MAX TEMP 32F OR BELOW	9.2	7.0	6.5	1.7	0.1	0.0	0.0	0.0	0.1	0.6	4.6	7.6	37.4
MIN TEMP 32F OR BELOW	28.9	26.3	27.9	19.2	3.5	0.1	0.0	0.0	2.0	12.0	24.9	28.2	173.0
MIN TEMP 00F OR BELOW	4.6	2.2	1.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.4	11.7
SNOW COVER 1" OR MORE	11.6	8.4	10.2	4.5	0.8	0.0	0.0	0.0	0.2	1.9	6.8	9.1	53.5
PROP 0.01" OR MORE	5.3	5.9	9.2	9.2	11.5	9.8	10.5	9.2	6.6	5.0	5.8	5.2	93.2
PROP 0.10" OR MORE	1.3	1.0	3.0	3.7	6.2	4.8	4.5	3.8	2.7	2.0	1.4	1.1	35.5
PROP 0.50" OR MORE	0.1	0.0	0.3	0.4	1.4	1.2	0.8	0.6	0.5	0.2	0.1	0.1	5.7
PROP 1.00" OR MORE	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.8

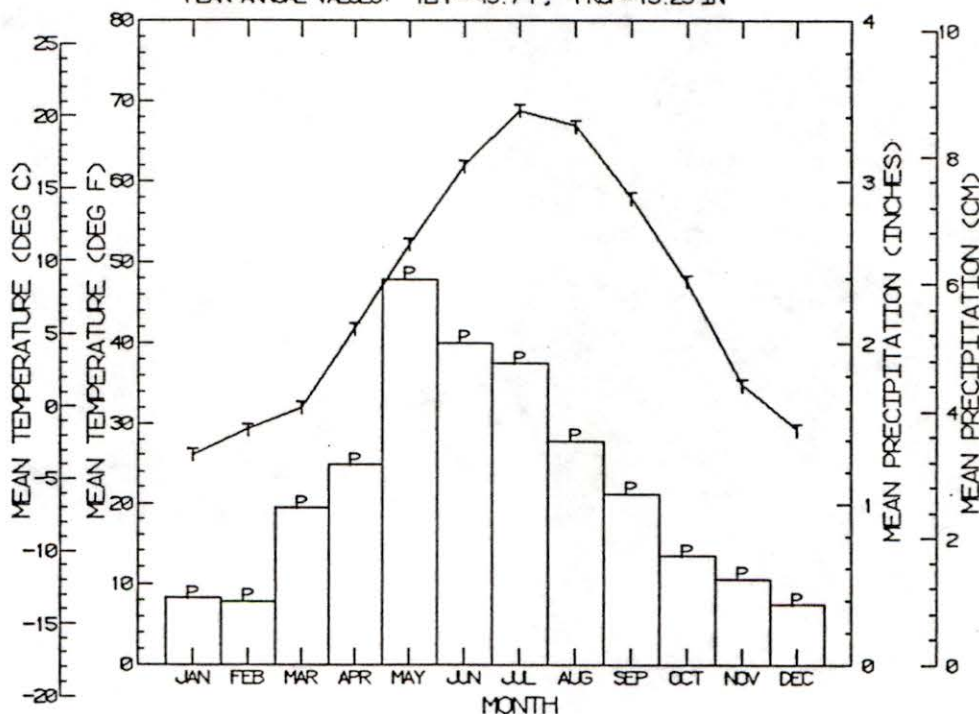
CHEYENNE, WY

(WSO - AIRPORT)

ID# = 1675

ELEV. = 6126 FT LAT. = 41.15 LONG. = 104.82 PERIOD SPANNED: 1951-1980

MEAN ANNUAL VALUES: TEMP = 45.7 F, PROP = 13.29 IN



PINE BLUFFS, WY

ID#= 7235

ELEV.=5045 FT

LAT.=41.18 LONG.=104.07

PERIOD SPANNED: 1951-1980

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE (DEG. F.):													
AVG. DAILY MAXIMUM	40.3	43.6	46.9	58.2	69.0	80.3	88.3	86.2	76.6	64.4	49.4	42.5	62.1
AVG. DAILY MINIMUM	13.2	16.8	20.0	29.4	39.7	49.5	54.5	52.8	43.1	32.8	21.7	15.8	32.4
AVG. DAILY MEAN	26.7	30.2	33.5	43.8	54.3	64.4	71.4	69.5	59.9	48.6	35.6	29.1	47.2
—STANDARD DEVIATION	4.5	4.4	4.4	3.1	2.6	3.1	2.3	2.0	3.1	3.4	3.6	3.6	1.0
HIGHEST DAILY	65	75	78	85	92	105	108	100	97	90	75	74	108
LOWEST DAILY	-27	-26	-15	0	19	27	32	34	19	4	-13	-25	-27
PRECIPITATION (INCHES):													
AVG. TOTAL PRECIPITATION	0.37	0.28	0.99	1.47	2.75	2.91	2.21	1.90	1.21	0.77	0.49	0.36	15.70
—STANDARD DEVIATION	0.39	0.20	0.80	0.83	1.49	1.21	1.50	1.41	0.92	0.61	0.44	0.23	3.12
GREATEST MONTHLY PROP.	1.75	0.78	3.09	3.13	7.05	4.98	6.39	5.95	3.67	2.31	1.52	1.01	7.05
LEAST MONTHLY PROP.	0.00	0.01	0.10	0.32	0.25	0.61	0.35	0.41	0.00	0.02	0.00	0.05	0.00
GREATEST DAILY PROP.	0.95	0.55	0.73	1.00	2.39	1.88	2.71	1.71	2.04	1.30	0.73	0.46	2.71
AVG. SNOWFALL	3.7	2.9	7.7	3.8	0.8	0.0	0.0	0.0	0.0	1.5	6.7	3.3	30.4
—STANDARD DEVIATION	5.2	3.0	7.0	5.7	2.3	0.0	0.0	0.0	0.0	4.3	6.2	2.9	18.1
MOST MONTHLY SNOWFALL	18.5	10.0	23.0	19.0	8.0	0.0	0.0	0.0	0.0	19.0	19.5	10.0	28.0
LEAST MONTHLY SNOWFALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEEPEST SNOW COVER	16.0	14.0	9.0	6.0	4.0	0.0	0.0	0.0	0.0	3.0	17.0	11.0	17.0
DEGREE DAYS:													
HEATING (BASE 65F) AVG.	1184	985	973	635	337	94	10	21	183	508	881	1111	6922
COOLING (BASE 65F) AVG.	0	0	0	0	7	75	209	160	29	1	0	0	481
GROWING (BASE 45F) AVG.	2	6	18	92	304	582	819	758	448	181	16	4	3230
AVG. NUMBER OF DAYS WITH:													
MAX TEMP 90F OR ABOVE	0.0	0.0	0.0	0.0	0.5	5.3	15.1	11.6	2.5	0.0	0.0	0.0	35.0
MAX TEMP 32F OR BELOW	8.0	4.8	4.7	0.6	0.1	0.0	0.0	0.0	0.0	0.3	3.3	5.9	27.7
MIN TEMP 32F OR BELOW	29.8	27.1	28.8	19.0	4.6	0.4	0.0	0.0	2.6	14.6	27.3	29.7	183.9
MIN TEMP 00F OR BELOW	5.4	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.6	12.3
SNOW COVER 1" OR MORE	7.9	4.0	5.1	1.6	0.1	0.0	0.0	0.0	0.0	0.1	5.8	5.3	29.9
PROP 0.01" OR MORE	4.3	3.7	6.3	7.3	10.8	10.7	10.3	8.1	5.8	4.3	3.9	4.3	79.8
PROP 0.10" OR MORE	1.1	1.0	3.0	3.7	6.1	6.9	5.4	4.8	2.9	2.1	1.5	1.3	39.8
PROP 0.50" OR MORE	0.1	0.0	0.5	0.9	1.7	1.8	1.0	1.3	0.7	0.3	0.1	0.0	8.4
PROP 1.00" OR MORE	0.0	0.0	0.0	0.1	0.5	0.5	0.4	0.3	0.2	0.1	0.0	0.0	2.1

PINE BLUFFS, WY

ID#= 7235

ELEV.=5045FT LAT.=41.18 LONG.=104.07 PERIOD SPANNED: 1951-1980

MEAN ANNUAL VALUES: TEMP= 47.2 F, PROP= 15.70 IN

