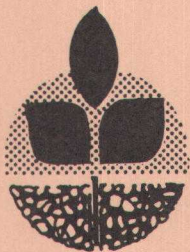


# **Supplement to SB 659: Adjusting and Forecasting Herbage Yields in the Intermountain Big Sagebrush Region of the Steppe Province**

**Station Bulletin 673  
April 1989**



**Agricultural Experiment Station  
Oregon State University, Corvallis**

**in cooperation with**

**Agricultural Research Service  
U.S. Department of Agriculture**

*Supplement to SB 659*  
Adjusting and Forecasting  
Herbage Yields in the  
Intermountain Big Sagebrush  
Region of the Steppe Province

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Burns, Oregon

Supplement to

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*Adjusting and Forecasting Herbage Yields  
in the Intermountain Big Sagebrush Region of the Steppe Province.*  
Oregon State University Agricultural Experiment Station Bulletin 659

## Introduction to this supplement

The material in this supplement is prepared to update and broaden that originally published in 1983 as Oregon State University Agricultural Experiment Station Bulletin 659, *Adjusting and Forecasting Herbage Yields in the Intermountain Big Sagebrush Region of the Steppe Province*. The supplement consists of five sections. Section 1 adds data from some 78 stations that were not included in the 1983 bulletin. Section 2 brings the original data up to date. Section 3 provides crop year data for the new stations. Section 4 combines into a single, state-by-state list crop year data for 1986 and 1987 for all stations reported in the original bulletin and this supplement. Section 5 is a series of state-by-state representations of the modified Thiessen grid on which this work is based.

Forrest A. Sneva  
Burns, OR  
March 1989

Supplement to

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in the Intermountain Big Sagebrush Region of the Steppe Province.*  
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## Section 1.

### The precipitation median and its quartiles

This section is a supplement to the Appendix, Part I, of Station Bulletin 659. It provides data on the precipitation median and its quartiles for new stations not included in Station Bulletin 659. The 78 new stations in this section either were overlooked in gathering data for the the Bulletin or there were insufficient data available for them when the original material was prepared in 1975. The statistics for these new stations are derived as described in SB 659.

THE PRECIPITATION MEDIAN AND ITS QUANTILES

STATION	QUARTILE LEVEL	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	MAY + JUNE	SEPT. TO JUNE
<b>CALIFORNIA</b>															
Chester	1st Q	.01	.00	.15	.39	2.35	2.35	3.03	2.10	2.38	.78	.38	.16	1.35	26.52
	Median	.05	.07	.39	1.18	4.08	4.56	5.93	4.33	4.26	1.74	1.41	.66	2.30	30.67
	3rd Q	.16	.21	.76	2.94	5.65	6.50	8.69	7.11	5.25	2.74	1.92	1.50	3.16	37.10
Copco 1 Dam (25)	1st Q	.01	.02	.21	.61	1.32	2.64	1.63	.97	1.33	.69	.39	.26	1.23	14.28
	Median	.07	.25	.48	1.24	3.25	2.95	2.06	2.16	1.69	1.34	.80	.77	1.54	20.19
	3rd Q	.26	.65	.59	1.81	3.76	3.77	3.51	2.72	2.70	1.77	1.50	1.23	2.24	23.03
Greenville Ranger Station	1st Q	.00	.00	.08	.42	2.98	2.57	3.32	3.00	2.31	1.00	.62	.12	1.39	30.57
	Median	.01	.05	.23	1.52	4.22	5.62	7.06	4.84	4.84	2.80	1.30	.70	2.14	36.37
	3rd Q	.16	.35	.58	3.60	6.43	9.45	11.20	8.29	6.64	3.59	1.87	1.13	3.08	48.51
Manzanita Lake	1st Q	.00	.05	.38	1.15	2.85	2.65	3.08	2.80	3.36	1.97	1.07	.46	2.43	29.25
	Median	.12	.18	.89	2.12	4.48	4.32	5.38	5.31	5.16	2.94	2.10	1.06	3.96	38.74
	3rd Q	.41	.48	1.99	4.33	6.69	6.32	7.71	7.07	6.50	4.40	3.72	2.59	5.61	49.79
McCloud	1st Q	.00	.00	.04	1.36	3.43	4.27	4.55	3.89	3.33	.84	.67	.25	1.55	43.63
	Median	.03	.13	.28	2.23	6.59	7.20	9.46	6.14	5.81	2.72	1.84	.79	3.23	50.72
	3rd Q	.30	.23	1.14	4.43	10.58	11.85	12.10	9.70	8.31	4.14	3.13	1.23	4.72	57.18
Mt. Shasta WSO C1	1st Q	.01	.05	.13	.83	2.36	2.39	3.29	2.87	1.75	.83	.34	.27	1.10	29.37
	Median	.06	.24	.46	1.56	4.42	5.60	6.80	4.78	3.97	2.42	1.04	.60	2.00	36.02
	3rd Q	.28	.39	.92	2.83	7.21	6.92	9.75	8.32	5.82	3.79	1.71	.96	3.12	42.46
Oak Knoll Ranger Station 2	1st Q	.00	.02	.13	.59	1.78	2.27	3.10	1.53	1.49	.66	.38	.11	.92	20.73
	Median	.16	.26	.37	1.54	3.86	4.40	4.84	2.50	2.45	1.02	.76	.45	1.56	23.84
	3rd Q	.33	.52	.69	2.25	4.60	6.59	7.13	3.64	2.89	1.46	1.22	1.06	2.06	29.67
Pit River PH 1 (12)	1st Q	.00	.07	.32	.45	.77	1.53	1.26	1.93	1.13	.80	.44	.20	.78	16.52
	Median	.01	.37	.69	1.40	2.20	3.19	2.71	2.49	2.34	1.40	.66	.48	1.46	17.97
	3rd Q	.24	.50	1.08	2.44	3.46	4.00	4.09	4.93	4.10	1.75	1.58	.82	2.03	25.42
Sierraville Ranger Station	1st Q	.00	.03	.03	.38	1.93	1.59	1.80	1.37	1.30	.69	.35	.08	1.07	19.64
	Median	.04	.12	.27	1.28	2.95	3.83	4.26	2.48	2.48	1.54	1.38	.43	1.81	23.84
	3rd Q	.36	.29	.59	1.94	3.52	5.83	5.72	4.85	4.12	2.04	1.89	.66	2.54	32.46
Vinton	1st Q	.02	.00	.05	.17	.77	.83	.75	.62	.57	.36	.35	.05	.75	9.31
	Median	.12	.17	.26	.44	1.13	1.66	1.70	1.20	1.26	.74	.88	.58	1.80	11.66
	3rd Q	.31	.38	.49	1.29	2.16	2.68	2.69	1.86	2.05	1.08	1.61	.86	2.34	15.43
<b>IDAHO</b>															
Blackfoot 2 SSW (25)	1st Q	.13	.05	.16	.23	.65	.59	.65	.37	.64	.50	.38	.29	1.59	8.68
	Median	.32	.45	.80	.70	1.16	1.29	.84	.95	1.01	.74	1.19	1.16	2.04	10.40
	3rd Q	.80	.81	1.05	.99	1.50	1.45	1.23	1.34	1.33	1.53	1.86	1.52	3.00	12.09
Brownlee Dam (18)	1st Q	.02	.02	.36	.56	.78	2.04	1.79	1.14	1.35	.63	.72	.73	2.03	15.75
	Median	.42	.38	.48	.74	2.10	2.36	2.30	1.63	1.58	1.28	1.32	1.61	2.72	16.65
	3rd Q	.80	.93	.91	1.62	2.70	3.22	2.58	2.36	1.89	1.85	1.92	1.97	3.90	19.31
Bruneau (22)	1st Q	.00	.00	.13	.22	.57	.47	.40	.27	.41	.44	.34	.27	.68	6.27
	Median	.08	.14	.34	.38	.97	.77	.82	.48	.54	.64	.43	.66	1.34	6.08
	3rd Q	.38	.27	.57	.74	1.16	1.15	1.14	.58	.67	.99	.63	1.27	1.95	8.53
Cambridge	1st Q	.00	.03	.28	.53	1.57	1.88	1.73	1.36	1.19	.69	.84	.33	1.81	17.72
	Median	.07	.14	.52	.92	2.46	2.92	3.18	1.87	2.00	.82	1.33	1.18	2.55	19.40
	3rd Q	.37	.35	.94	1.80	3.60	4.28	4.25	2.67	2.47	1.65	1.79	2.13	3.75	20.61
Cascade 1 NW	1st Q	.03	.15	.52	.82	1.40	1.70	1.94	1.09	1.38	.80	.84	.95	2.71	18.37
	Median	.20	.35	.85	1.26	2.55	2.64	2.82	2.05	2.04	1.08	1.44	1.93	3.24	20.06
	3rd Q	.40	.49	1.11	2.03	3.26	3.84	4.18	2.47	2.25	1.67	2.10	2.44	4.43	22.77

THE PRECIPITATION MEDIAN AND ITS QUANTILES, continued

STATION	QUARTILE LEVEL	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	MAY +	SEPT. TO
														JUNE	JUNE
<b>IDAHO (continued)</b>															
Craters of the Moon NM (25)	1st Q	.17	.30	.23	.34	.79	1.17	1.11	.78	.56	.46	.72	.50	1.84	12.51
	Median	.41	.53	.82	1.03	1.29	1.82	1.50	1.41	1.19	.81	1.46	1.18	3.18	<u>15.60</u>
	3rd Q	.78	.84	1.49	1.29	2.14	3.05	2.71	2.05	1.95	1.45	1.99	1.79	3.67	17.61
Garden Valley Ranger Station	1st Q	.00	.09	.36	.68	1.77	2.28	2.32	1.57	1.57	.83	.76	.63	2.26	20.08
	Median	.17	.21	.50	1.28	3.14	3.37	3.56	2.77	2.02	1.34	1.26	1.54	3.22	<u>24.04</u>
	3rd Q	.40	.62	.78	1.81	3.86	5.10	5.46	3.45	2.77	1.61	1.68	2.48	4.03	<u>25.02</u>
Henry (12)	1st Q	.52	.66	.64	1.12	.84	1.16	.88	1.04	.94	.68	1.40	1.03	2.53	17.18
	Median	1.32	1.32	1.78	1.46	1.78	2.76	1.98	1.60	1.34	1.12	2.03	1.70	4.10	<u>14.85</u>
	3rd Q	2.76	1.57	2.92	2.68	2.38	3.37	2.84	1.92	2.08	1.94	3.34	2.04	4.88	19.62
Howe	1st Q	.13	.24	.17	.17	.26	.28	.37	.15	.16	.13	.49	.68	1.11	5.31
	Median	.26	.50	.38	.34	.46	.61	.48	.37	.39	.30	.87	1.18	2.38	<u>6.42</u>
	3rd Q	.63	.84	.48	.84	.94	1.06	.75	.72	.71	.83	1.31	1.76	3.39	8.48
Idaho Falls 46 W	1st Q	.11	.17	.15	.20	.31	.36	.48	.21	.25	.35	.72	.54	1.79	7.01
	Median	.38	.37	.48	.52	.62	.65	.64	.64	.68	.46	1.04	1.04	2.17	<u>7.68</u>
	3rd Q	.51	.78	.96	.93	.98	1.08	.89	.84	.81	1.32	1.55	1.77	3.27	9.10
Ketchum Ranger Station (11)	1st Q	.65	.23	.29	.17	.90	1.41	1.24	1.30	1.15	.74	.76	.63	1.83	14.66
	Median	1.39	.77	.96	1.23	1.44	3.07	1.43	1.91	1.41	1.18	1.20	1.47	3.02	<u>16.66</u>
	3rd Q	1.70	1.08	1.55	1.57	3.14	3.83	2.28	2.43	3.10	1.72	1.53	1.60	3.58	19.48
Leadore 2 (18)	1st Q	.40	.25	.50	.17	.25	.15	.20	.03	.10	.23	.61	.84	1.65	5.82
	Median	.76	.72	.81	.44	.40	.28	.32	.14	.40	.70	1.33	1.20	2.34	<u>6.76</u>
	3rd Q	1.17	1.14	1.53	.66	.59	.55	.42	.32	.60	1.00	1.52	1.42	3.00	<u>7.63</u>
Malad City (14)	1st Q	.26	.25	.36	.79	1.03	.58	.92	.60	.63	.89	.73	.54	2.41	12.45
	Median	1.08	.67	1.30	1.51	1.24	1.24	1.21	1.18	1.20	1.10	1.42	1.28	3.57	<u>12.29</u>
	3rd Q	1.55	1.19	1.65	1.76	1.64	1.73	1.60	1.51	1.57	1.48	2.43	1.51	3.74	17.14
Massacre Rock State Park (11)	1st Q	.04	.24	.14	.62	.90	.49	.55	.78	.86	.83	.67	.64	1.15	9.29
	Median	.50	.35	1.06	.89	1.30	1.18	.83	1.24	1.04	1.27	1.55	.90	2.42	<u>10.67</u>
	3rd Q	1.03	.65	1.11	1.64	1.30	1.39	1.06	1.27	1.65	1.55	1.86	1.04	2.94	13.68
Middlefork Lodge (13)	1st Q	.61	.62	.36	.49	.93	1.42	.96	1.08	.75	.64	.97	1.03	2.36	10.77
	Median	.94	1.11	1.17	.82	1.52	2.12	1.33	1.51	1.15	1.30	1.46	1.68	2.60	<u>15.23</u>
	3rd Q	1.31	1.21	1.52	1.13	2.17	2.50	1.95	1.95	1.31	1.58	1.79	1.96	4.08	19.10
Stanley (16)	1st Q	.34	.34	.86	.65	.80	1.10	1.04	.92	.58	.59	.74	1.16	1.98	13.43
	Median	.58	.72	1.15	1.14	1.85	2.11	1.63	1.20	.98	.88	1.12	1.58	2.68	<u>15.50</u>
	3rd Q	1.28	1.19	1.41	1.79	2.49	4.46	2.76	1.59	1.38	1.72	1.80	2.20	3.60	18.88
Yellow Pine 7S (14)	1st Q	.59	.32	.73	.94	1.39	3.04	1.39	2.44	1.42	1.47	1.02	1.33	2.39	19.35
	Median	1.10	.93	2.00	1.46	2.41	4.61	2.90	3.30	2.39	2.12	1.98	2.03	3.68	<u>25.00</u>
	3rd Q	1.61	1.54	2.28	2.34	4.05	5.14	3.23	3.78	2.73	2.43	2.36	2.61	5.30	31.64
<b>NEVADA</b>															
Beowawe-Univ. of Nevada Ranch (11)	1st Q	.25	.07	.25	.43	.41	.45	.80	.45	.90	.71	.45	.10	1.31	9.09
	Median	.41	.68	.90	.79	.99	.68	1.40	.74	1.40	1.11	.86	.58	1.60	<u>9.58</u>
	3rd Q	.83	.80	1.53	1.44	1.24	1.10	1.64	1.09	2.03	1.59	2.06	.88	2.14	12.34
Brinkerhoff Ranch (11)	1st Q	.00	.02	.00	.00	.17	.34	.42	.06	.06	.24	.25	.44	.69	5.43
	Median	.25	.05	.09	.14	.49	.63	.63	.71	.43	.59	.47	.76	2.06	<u>5.02</u>
	3rd Q	.61	.64	.36	.56	.61	.82	.80	.87	.85	.78	.59	1.59	2.18	7.12
Buffalo (13)	1st Q	.11	.06	.12	.34	.54	.84	.82	.61	.77	.82	.51	.75	1.57	10.21
	Median	.18	.40	.20	.86	1.07	1.05	1.80	.95	.99	1.28	.92	1.38	2.87	<u>10.37</u>
	3rd Q	.50	.69	.44	1.39	1.91	1.60	2.31	1.18	1.44	1.33	1.36	1.86	3.93	13.42
Carlin Gold Mine (17)	1st Q	.16	.02	.21	.81	.57	.84	.79	.58	.99	.68	.52	.63	1.61	10.72
	Median	.43	.14	.65	1.15	1.10	1.60	.90	1.09	1.51	.94	.79	1.17	2.00	<u>12.09</u>
	3rd Q	.74	.33	.95	1.26	1.68	2.18	1.76	1.54	1.60	1.11	.90	1.58	2.67	14.96



THE PRECIPITATION MEDIAN AND ITS QUARTILES, continued

STATION	QUARTILE LEVEL	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	MAY + JUNE	SEPT. TO JUNE
<b>NEVADA (continued)</b>															
Central Nev. Field Lab (18)	1st Q	.14	.30	.05	.08	.30	.24	.11	.21	.24	.32	.36	.06	1.05	4.91
	Median	.53	.70	.46	.33	.48	.43	.48	.26	.48	.53	.54	.92	1.58	5.63
	3rd Q	.67	1.43	.91	.86	.59	.59	.64	.61	.70	.74	.69	1.13	1.79	6.47
Clover Valley (19)	1st Q	.13	.22	.30	.23	1.08	.88	.61	.59	.71	.69	.44	.36	1.03	10.13
	Median	.54	.37	.48	.75	1.47	1.37	1.25	1.16	.93	.90	.76	1.00	1.60	11.38
	3rd Q	.88	1.12	1.11	1.53	1.87	1.95	1.37	1.45	1.74	1.34	1.18	1.35	2.50	13.67
Duckwater (18)	1st Q	.14	.20	.04	.15	.10	.25	.20	.12	.21	.09	.09	.00	.37	4.48
	Median	.56	.68	.43	.66	.28	.42	.48	.38	.65	.38	.15	.35	1.36	5.54
	3rd Q	.83	1.11	.78	.75	.35	.53	.85	.97	.98	.70	1.31	.62	2.02	7.24
Emigrant Pass Hwy. Sta. (29)	1st Q	.03	.02	.18	.15	.56	.47	.78	.57	.56	.63	.60	.70	1.80	7.89
	Median	.20	.28	.40	.70	1.13	.90	1.07	.84	1.28	1.04	1.01	1.05	2.38	11.04
	3rd Q	.48	.89	.74	1.29	1.55	1.32	1.31	1.34	1.73	1.38	1.82	1.54	3.04	12.47
Eureka (20)	1st Q	.27	.28	.23	.42	.50	.75	.52	.46	.90	.68	.48	.40	1.56	10.42
	Median	.68	.63	.93	.92	.80	1.13	.93	.67	1.37	.98	.98	.92	2.40	10.36
	3rd Q	1.02	1.56	1.56	1.28	1.51	1.88	1.44	1.10	1.98	2.09	2.65	1.50	4.20	15.18
Ferguson Springs (10)	1st Q	.14	.10	.33	.19	.40	.12	.23	.13	.32	.36	.49	.15	.54	5.31
	Median	.50	.33	.60	.96	.56	.23	.44	.42	.69	.43	1.30	.31	1.78	5.83
	3rd Q	.64	.45	.70	1.31	.64	.43	.63	.47	1.41	.83	1.67	.66	1.95	7.60
Jungo-Meyer Ranch (16)	1st Q	.01	.00	.00	.18	.17	.45	.36	.20	.37	.18	.16	.06	.60	5.32
	Median	.18	.33	.28	.40	.82	1.11	.54	.52	.68	.46	.39	.32	1.18	7.06
	3rd Q	.43	.92	.98	.93	1.49	1.41	.98	.87	.90	.67	.84	1.38	1.69	8.10
Lund (27)	1st Q	.08	.30	.14	.16	.30	.23	.15	.36	.41	.45	.22	.16	.88	6.52
	Median	.61	.80	.60	.69	.54	.55	.47	.57	.86	.77	.64	.44	1.33	8.26
	3rd Q	.87	.97	1.27	.95	.87	.87	1.03	1.10	1.37	1.18	1.17	1.11	2.90	9.16
Metropolis (18)	1st Q	.47	.19	.30	.49	.92	.71	.74	.25	.47	.67	.71	1.03	1.80	9.73
	Median	.66	.44	.55	1.10	1.36	1.41	1.30	1.06	1.01	1.06	.94	1.28	2.82	11.70
	3rd Q	1.20	.99	.97	1.93	1.84	1.70	1.75	1.24	1.68	1.52	1.82	2.00	3.52	14.35
Mountain City Ranger Station (29)	1st Q	.18	.12	.32	.47	.90	.84	.60	.73	.65	.55	.79	.58	1.93	10.72
	Median	.35	.25	.63	.84	1.23	1.45	1.45	1.06	1.01	.88	1.38	1.06	2.81	11.89
	3rd Q	.52	.64	.89	1.26	1.78	1.89	1.78	1.28	1.44	1.30	1.80	1.57	3.28	13.67
Northfork 7NW (16)	1st Q	.32	.10	.30	.18	.58	.52	.47	.74	.93	.61	.82	.48	1.68	10.73
	Median	.56	.45	.59	.34	1.47	.94	1.32	1.20	1.05	.91	1.48	1.45	2.88	12.54
	3rd Q	1.07	1.48	1.36	1.26	2.02	1.60	1.99	2.06	1.26	1.92	2.58	2.58	4.55	14.61
Paris Ranch (18)	1st Q	.00	.00	.00	.27	.43	.40	.44	.40	.29	.50	.17	.16	.62	6.80
	Median	.19	.12	.10	.54	1.00	.78	.86	.74	.92	.80	.46	.80	1.69	6.82
	3rd Q	.39	.20	.45	.91	1.37	1.11	1.14	1.03	1.27	1.09	1.00	1.13	2.10	8.92
Reese River Ranger Station (11)	1st Q	.03	.14	.08	.25	.27	.02	.25	.22	.40	.25	.33	.05	.80	5.41
	Median	.55	.60	.67	.64	.72	.38	.43	.53	.85	.41	.67	.21	.98	5.81
	3rd Q	.67	1.10	1.37	1.08	.78	.61	.80	.56	1.06	.83	.76	.56	1.45	7.62
Snowball Rch. (18)	1st Q	.26	.25	.13	.04	.19	.26	.18	.15	.31	.28	.25	.06	.54	5.99
	Median	.94	.78	1.05	.40	.40	.35	.51	.38	.92	.50	.55	.40	1.48	6.86
	3rd Q	1.10	1.02	2.02	1.08	.54	.66	.65	.84	1.46	.79	1.26	.93	1.63	8.33
Sutcliff (12)	1st Q	.01	.00	.00	.02	.40	.82	.48	.36	.04	.19	.27	.16	.74	5.96
	Median	.12	.20	.22	.32	1.24	1.06	.94	.66	.27	.34	.36	.49	1.30	6.77
	3rd Q	.36	.36	.66	.86	1.68	1.76	2.00	1.02	.68	.68	.86	.95	1.61	8.99

THE PRECIPITATION MEDIAN AND ITS QUARTILES, continued

STATION	QUARTILE LEVEL	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	MAY + JUNE	SEPT. TO JUNE
<b>OREGON</b>															
Andrews Westen Mine (15)	1st Q	.15	.10	.26	.65	.99	1.55	1.52	1.02	1.28	.88	.50	.65	1.67	14.40
	Median	.43	.37	.70	.86	2.15	2.86	1.72	1.65	1.97	1.13	1.21	.92	2.17	<u>13.82</u>
	3rd Q	1.16	1.21	1.60	1.52	3.35	3.16	2.63	2.13	2.57	1.54	1.72	1.11	2.66	<u>18.97</u>
Ashwood	1st Q	.00	.00	.22	.53	.67	.82	.83	.40	.53	.23	.52	.35	1.22	8.85
	Median	.10	.16	.46	.78	1.57	1.53	1.38	.79	.90	.58	.95	.91	2.10	<u>11.38</u>
	3rd Q	.39	.55	.82	1.30	2.01	2.04	1.86	1.08	1.49	.93	1.25	1.17	2.59	<u>12.80</u>
Baker FAA AP	1st Q	.06	.14	.21	.34	.50	.63	.56	.37	.61	.39	.71	.66	1.91	7.07
	Median	.20	.38	.42	.58	.87	.92	.90	.64	.70	.66	1.24	1.30	2.70	<u>9.82</u>
	3rd Q	.43	.53	.71	.84	1.07	1.23	1.04	.82	.93	1.01	1.97	1.83	3.56	<u>10.84</u>
Boardman (13)	1st Q	.06	.01	.06	.40	.55	1.13	.71	.57	.40	.21	.21	.13	.33	6.10
	Median	.25	.50	.30	.44	.99	1.33	.88	.69	.60	.63	.48	.26	.86	<u>8.30</u>
	3rd Q	.36	.79	.62	.59	1.34	1.71	1.28	.91	.69	.85	.86	.55	1.02	<u>9.54</u>
Burns Junction (12)	1st Q	.12	.10	.18	.23	.18	.32	.44	.40	.51	.52	.22	.50	.88	6.08
	Median	.36	.33	.59	.70	.79	.49	.65	.64	.84	.56	.57	.69	1.54	<u>7.33</u>
	3rd Q	.86	1.22	.94	.81	1.27	1.22	1.08	1.06	1.30	1.30	1.24	1.04	2.22	<u>10.00</u>
Cove (12)	1st Q	.36	.32	.38	.96	1.40	1.56	1.08	1.14	1.60	1.46	1.34	1.36	3.20	18.58
	Median	.73	1.54	.83	1.72	1.90	2.67	1.98	1.54	2.04	2.38	2.05	1.74	4.18	<u>19.74</u>
	3rd Q	1.30	2.32	2.52	2.50	2.91	3.94	2.09	2.08	2.44	3.42	3.04	2.54	4.91	<u>22.72</u>
Drewsey (13)	1st Q	.04	.00	.32	.17	.59	.83	.97	.62	.64	.19	.23	.14	1.11	8.30
	Median	.20	.17	.50	.44	.86	1.34	1.17	.92	1.09	.48	.93	.38	1.25	<u>9.99</u>
	3rd Q	.42	.22	.63	.61	1.43	1.62	1.60	1.18	1.55	.73	1.09	.69	1.92	<u>10.37</u>
Enterprise 20NNE (22)	1st Q	.54	.11	.71	.66	1.10	1.36	1.08	.77	1.13	1.13	1.45	1.23	2.86	14.57
	Median	.96	1.02	1.14	1.25	1.52	1.80	1.46	1.35	1.36	1.88	1.92	1.98	3.77	<u>17.38</u>
	3rd Q	1.24	1.45	1.69	1.54	2.13	2.23	2.38	1.62	1.93	2.09	2.36	2.52	4.88	<u>18.90</u>
Gibbon (13)	1st Q	.15	.65	.43	1.29	2.24	3.76	1.86	2.47	2.13	1.66	1.49	1.24	3.12	24.58
	Median	.47	1.00	1.38	1.87	3.16	4.32	2.63	3.14	3.01	2.32	1.98	1.77	3.70	<u>24.69</u>
	3rd Q	1.25	1.89	1.49	2.65	3.55	4.87	3.20	3.76	3.96	2.42	2.60	2.08	4.08	<u>31.01</u>
Malin 5E (16)	1st Q	.00	.04	.18	.75	.84	.84	.95	.89	1.15	.36	.26	.30	.96	10.06
	Median	.20	.33	.42	1.18	1.22	1.54	1.42	1.29	1.46	.80	.79	.80	1.47	<u>12.79</u>
	3rd Q	.48	.86	.94	1.98	2.29	2.51	1.92	1.84	1.87	1.52	1.46	1.48	2.66	<u>14.74</u>
Mason Dam (15)	1st Q	.52	.22	.47	.54	.72	1.73	1.27	.83	1.19	.60	.81	.99	2.16	13.66
	Median	.78	.29	1.01	.93	1.81	2.53	1.87	1.01	1.50	1.14	1.27	1.74	2.89	<u>15.20</u>
	3rd Q	1.27	.89	1.42	1.48	2.75	3.00	2.64	1.96	1.97	1.39	1.79	2.04	3.97	<u>19.20</u>
McDermitt 26N (28)	1st Q	.00	.02	.21	.38	.42	.36	.38	.28	.41	.38	.48	.62	1.73	7.67
	Median	.17	.28	.36	.68	.94	.60	.58	.54	.93	.72	1.34	1.24	2.45	<u>8.94</u>
	3rd Q	.51	.81	.93	.94	1.30	.90	.93	.96	1.40	.98	1.96	1.85	3.33	<u>9.68</u>
Pine Mtn. Obs. (12)	1st Q	.04	.10	.07	.32	.27	.84	.84	.52	.66	.40	.44	.40	1.41	7.68
	Median	.30	.54	.20	.64	.70	1.04	1.60	.81	.93	.72	.95	.86	1.80	<u>8.69</u>
	3rd Q	.42	1.04	.97	.96	2.17	1.68	2.05	.96	1.88	.90	1.39	1.56	2.24	<u>12.48</u>
Silver Lake Ranger Station (16)	1st Q	.12	.09	.18	.48	.32	.63	.38	.39	.26	.28	.38	.36	.79	6.24
	Median	.26	.22	.30	.66	1.16	.94	.94	.49	.74	.59	.62	.70	1.29	<u>8.17</u>
	3rd Q	.51	1.26	.60	1.06	1.87	1.97	1.54	1.16	1.16	.86	1.02	1.13	2.36	<u>10.60</u>
Sisters (26)	1st Q	.05	.06	.15	.36	1.35	1.22	1.66	.65	.66	.17	.17	.10	.66	10.78
	Median	.16	.18	.36	.66	2.09	1.92	2.30	1.88	.96	.71	.44	.50	1.00	<u>14.67</u>
	3rd Q	.40	.40	.61	1.00	2.91	3.02	3.05	2.25	1.50	1.02	.78	.63	1.31	<u>15.86</u>
Whithorse Ranch (19)	1st Q	.07	.04	.25	.16	.46	.35	.36	.27	.36	.46	.18	.38	.85	6.25
	Median	.20	.22	.43	.58	.78	.64	.64	.45	.78	.81	.64	.62	1.49	<u>7.96</u>
	3rd Q	.30	1.04	.78	.82	1.37	.95	1.05	.87	1.09	1.05	.87	.84	1.63	<u>8.20</u>



THE PRECIPITATION MEDIAN AND ITS QUARTILES, continued

STATION	QUARTILE LEVEL	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	MAY + JUNE	SEPT. TO JUNE
<b>UTAH</b>															
Bear River Bay (15)	1st Q	.15	.12	.18	1.04	.59	.68	.59	.53	.60	.62	.72	.28	1.06	10.61
	Median	.40	.58	.73	1.30	.85	.93	1.11	.95	.90	1.53	.83	.56	1.89	9.84
	3rd Q	.67	1.10	1.15	1.99	1.24	1.23	1.42	1.46	1.90	1.90	2.09	1.06	3.29	13.13
Callister Ranch (17)	1st Q	.17	.12	.15	.76	.33	.65	.45	.41	1.04	1.23	.73	.22	1.48	9.73
	Median	.45	.78	.73	1.17	.78	1.00	.71	.70	1.52	1.59	1.37	.38	1.98	9.60
	3rd Q	.63	1.09	1.31	1.38	1.26	1.40	.84	1.18	1.81	2.03	1.53	.99	2.55	11.98
Eskdale (18)	1st Q	.02	.16	.12	.08	.13	.05	.05	.02	.13	.11	.11	.07	.71	3.31
	Median	.34	.31	.56	.41	.24	.17	.14	.16	.44	.47	.42	.44	1.18	4.63
	3rd Q	.63	.48	1.10	.88	.48	.25	.25	.44	.88	.81	.90	.84	1.47	6.64
Gold Hill (18)	1st Q	.20	.26	.49	.29	.29	.27	.22	.21	.44	.82	.36	.36	1.43	6.55
	Median	.44	.47	.88	.93	.40	.50	.56	.52	.78	1.36	1.12	.64	2.04	6.95
	3rd Q	.66	.85	.98	1.30	.56	.77	.70	.71	1.50	1.72	1.56	1.47	3.27	10.46
Grantsville (28)	1st Q	.25	.20	.20	.38	.36	.51	.30	.44	.66	.70	.54	.23	.97	7.76
	Median	.60	.52	.86	.99	.70	.82	.58	.65	1.27	1.68	1.31	.88	2.46	9.23
	3rd Q	1.11	1.11	1.30	1.39	1.16	1.12	.77	1.02	1.82	2.14	1.84	1.40	2.99	12.18
Logan - Utah State Univ.	1st Q	.08	.24	.32	.60	1.17	1.28	1.14	.84	1.25	1.45	1.11	.79	2.47	14.55
	Median	.20	.48	.86	1.30	1.51	1.59	1.61	1.28	1.78	1.83	1.74	1.40	3.30	16.98
	3rd Q	.53	1.07	1.56	2.03	2.12	2.00	1.94	1.71	2.16	2.68	2.26	1.99	3.95	18.36
Ogden Pioneer PH	1st Q	.08	.38	.29	.84	1.54	1.32	1.48	.71	1.17	1.54	1.07	.45	2.25	16.02
	Median	.32	.56	.68	1.55	1.93	2.34	2.10	1.53	1.86	2.24	1.76	1.38	3.34	18.49
	3rd Q	.69	.90	1.83	1.97	2.49	2.69	2.84	2.05	2.50	3.45	2.40	2.21	4.45	20.99
Riverdale	1st Q	.05	.19	.26	.72	1.10	1.06	1.16	.64	.99	1.37	.92	.37	2.33	13.86
	Median	.39	.69	.61	1.38	1.81	1.64	1.42	1.32	1.44	2.26	1.56	1.36	2.90	16.34
	3rd Q	.68	.90	1.66	1.99	2.06	2.12	1.91	1.55	2.10	3.22	2.50	2.29	4.32	19.33
Thiokol Plant 78 (22)	1st Q	.19	.21	.16	.63	.50	.51	.64	.52	.49	.78	.63	.76	1.79	10.99
	Median	.50	.58	.96	1.52	1.22	1.13	.94	.83	1.01	1.38	1.07	1.46	3.04	10.56
	3rd Q	.75	1.25	1.43	2.08	1.79	1.35	1.38	1.44	1.47	2.55	1.63	1.64	4.10	15.08
Vernon (21)	1st Q	.28	.37	.26	.53	.48	.38	.39	.14	.39	.52	.31	.20	.72	6.59
	Median	.56	.54	.53	.94	.75	.78	.54	.46	.98	.67	.85	.51	2.03	6.06
	3rd Q	1.10	.74	1.19	1.45	.89	.98	.68	.73	1.21	.89	1.02	1.27	2.41	9.64
<b>WASHINGTON</b>															
Eltopia 8SW	1st Q	.05	.04	.13	.23	.72	.56	.57	.37	.36	.20	.30	.24	.59	5.91
	Median	.12	.15	.23	.52	.92	1.36	.81	.73	.54	.64	.62	.51	1.10	8.30
	3rd Q	.23	.50	.51	.79	1.35	1.83	1.23	1.22	.85	.83	.87	.78	1.64	9.57
Goldendale 2E	1st Q	.00	.01	.24	.64	2.05	1.45	2.45	.90	.83	.27	.34	.23	.78	14.90
	Median	.12	.10	.58	1.16	2.86	3.10	3.43	1.69	1.62	.92	.54	.50	1.42	16.91
	3rd Q	.31	.37	.97	1.99	3.51	3.92	4.49	2.15	1.92	1.28	.79	.85	1.88	20.05
Prosser 4NE	1st Q	.04	.01	.12	.18	.57	.68	.49	.12	.24	.11	.27	.14	.60	4.53
	Median	.13	.22	.25	.40	.86	1.22	.88	.59	.38	.59	.39	.51	.90	6.86
	3rd Q	.42	.71	.64	1.06	1.40	1.93	1.52	.83	.65	.94	.74	.81	1.51	8.97
Smyrna (27)	1st Q	.00	.03	.03	.15	.62	.77	.66	.30	.41	.12	.31	.13	.52	6.06
	Median	.09	.16	.26	.32	.99	1.46	.97	.52	.63	.37	.43	.44	.91	7.37
	3rd Q	.22	.33	.43	.58	1.29	1.69	1.38	1.47	.93	.60	.83	.68	1.48	9.23
Sunnyside	1st Q	.00	.00	.07	.17	.45	.54	.36	.25	.12	.12	.14	.17	.53	4.95
	Median	.10	.12	.24	.40	.72	.82	.82	.49	.32	.27	.36	.42	.81	6.01
	3rd Q	.21	.21	.58	.71	.97	1.18	1.48	.75	.71	.70	.56	.69	1.55	7.19
White Swan	1st Q	.00	.00	.00	.06	.44	.59	.65	.44	.21	.00	.08	.02	.25	5.28
	Median	.09	.05	.17	.34	1.00	1.14	1.48	.92	.58	.18	.26	.28	.60	7.82
	3rd Q	.23	.22	.42	.72	1.25	2.01	2.19	1.26	.90	.73	.54	.48	.97	8.72

Supplement to

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*Adjusting and Forecasting Herbage Yields  
in the Intermountain Big Sagebrush Region of the Steppe Province.*  
Oregon State University Agricultural Experiment Station Bulletin 659

## Section 2.

### Crop year indices (for stations originally included in SB 659)

This section is a supplement to the Appendix, Part II. For the stations for which data were compiled and reported in SB 659, this section adds data for 1976-1985, the decade beyond the period originally reported.

## CROP YEAR INDICES (FOR STATIONS ORIGINALLY INCLUDED IN SB 659)

## California Stations

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Adin Ranger Station	56	57	112	66	139	75	149	118	100	63
Alturas Ranger Station	32	56	93	58	125	82	125	131	134	62
Boca	38	42	116	75	126	54	189	227	136	68
Burney	29	22	128	80	132	82	149	174	96	69
Canby Ranger Station	78	56	165	91	177	132	222	185	173	96
Cedarville	74	54	117	83	157	78	125	102	152	70
Doyle	30	63	120	41	149	54	157	248	133	93
Fort Bidwell	82	47	144	96	143	91	166	155	182	100
Hat Creek PH1	40	40	148	99	162	101	164	164	105	88
Hilts	74	34	152	80	136	69	198	168	99	-
Jess Valley	70	66	98	59	120	100	120	115	146	63
Lava Beds Nat. Monument	66	52	137	58	163	101	182	186	101	56
Mt. Hebron Range Staton	74	46	155	62	169	88	206	117	127	57
Portola	54	41	174	83	157	77	212	229	144	90
Red Bluff WSO AP	35	53	209	96	160	101	147	239	120	73
Susanville AP	20	57	155	40	148	59	186	202	114	63
Termo	58	136	121	53	146	90	138	133	112	66
Tulelake	72	50	149	53	149	93	158	133	127	83
Weed Fire Department	40	18	165	67	85	79	142	163	82	45
Yreka	72	34	130	68	127	68	203	85	107	86

## Idaho Stations

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Aberdeen Exp. Sta.	95	58	104	56	126	125	84	144	120	57
American Falls 1SW	95	56	96	68	153	120	136	191	191	77
Anderson Dam	100	24	122	62	91	85	127	150	163	70
Arbon 2NW	83	52	138	72	169	93	181	187	139	80
Arco 3SW	82	88	117	98	128	160	139	201	175	110
Arrowrock Dam	94	32	111	51	98	83	138	141	132	68
Bliss	101	32	131	86	95	86	143	165	174	77
Boise WSO AP	98	64	130	75	128	118	107	149	132	73
Burley FAA AP	80	54	91	53	106	75	122	133	134	64
Caldwell	93	46	150	106	149	143	122	158	143	77
Castleford 2N	98	40	116	95	93	80	102	136	123	67
Challis	109	83	99	80	112	138	107	105	133	56
Deer Flat Dam	86	45	141	83	115	146	109	136	133	62
Dubois Exp. Sta.	80	112	112	46	111	120	138	170	191	82
Glenn's Ferry	89	35	141	69	109	94	143	171	176	83
Grace	93	36	114	70	148	128	171	144	181	101
Grand View 2W	111	80	142	79	120	148	96	177	186	89
Grouse	54	94	142	88	115	116	171	143	149	100
Hailey Ranger Station	66	51	143	78	117	56	127	-	-	-
Hamer 4NW	70	94	118	82	128	98	130	139	175	75
Hazelton	93	31	112	83	105	98	117	132	141	74
Hill City	57	30	99	58	74	74	138	125	122	41
Hollister	59	32	82	100	138	107	90	110	149	57
Idaho City	78	40	112	61	102	89	139	137	116	66
Idaho Falls FAA AP	127	85	136	99	165	153	147	150	184	115
Jerome	96	45	123	93	111	98	152	133	155	69
Kuna 2NNE	93	42	137	68	143	146	114	134	123	66
Lifton Pumping Station	122	56	132	79	170	105	154	202	123	95
Mackay Ranger Station	77	111	116	93	114	133	164	154	110	37
Malad	111	53	139	91	152	84	154	155	149	70
May	95	84	86	68	114	126	118	91	154	72
McCall	98	29	121	63	105	102	109	120	110	52
Montpelier Ranger Station	93	50	110	66	141	89	122	150	120	74
Mountain Home	142	45	150	86	95	142	118	168	192	79
Oakley	73	78	84	73	126	100	111	109	95	70
Parma Experiment Station	101	62	174	74	132	146	125	174	125	75
Paulene	-	-	-	-	-	-	-	-	-	-
Payette	84	24	133	77	100	134	127	191	149	72

## CROP YEAR INDICES (FOR STATIONS ORIGINALLY INCLUDED IN SB 659), continued

## Idaho Stations (continued)

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Picabo	88	42	107	66	106	82	125	147	116	75
Pocatello WSO AP	118	67	101	77	141	136	131	175	181	85
Reynolds	82	58	106	57	100	126	147	114	116	48
Richfield	95	29	120	67	111	83	153	159	139	73
Shoshone LWNW	-	-	-	-	-	-	-	-	-	56
Strevell	94	90	85	94	153	117	138	157	109	93
Sugar*	105	-	122	85	115	106	127	131	186	74
Swanfalls PH	95	66	136	94	138	166	125	180	137	78
Swan Valley	83	41	91	82	79	106	118	125	116	68
Tetonia Experiment Sta.	104	67	111	83	109	118	137	162	162	91
Three Creek	79	61	53	59	72	43	91	69	120	80
Twin Falls 3SE	112	61	137	100	127	106	137	126	159	84

\*Rexburg - Ricks College beginning in 1978

## Nevada Stations

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Arthur	73	72	89	94	162	58	126	155	195	84
Austin	114	110	173	134	101	109	114	164	179	127
Battle Mountain	72	98	174	130	157	93	41	118	120	64
Beowawe	68	88	160	125	125	70	115	192	214	M
Carson City	40	47	109	78	153	52	154	214	128	57
Contact	89	59	56	101	136	58	127	115	142	57
Deeth	86	96	123	130	221	90	150	237	192	106
Denio	74	84	143	102	175	112	115	168	180	83
Duferrena	72	98	187	160	147	117	111	195	193	128
Elko	62	64	94	116	166	56	123	175	193	72
Ely	85	104	143	125	133	134	152	254	106	162
Fallon	70	173	130	85	105	68	114	187	94	85
Gibbs Ranch	82	85	114	116	175	70	160	147	192	66
Glennbrook	58	51	111	82	138	69	224	239	136	72
Golconda	67	94	125	112	137	77	131	189	217	98
Imlay	51	88	152	102	139	84	M	152	111	53
Kings River Ranch	68	41	109	77	101	57	105	159	126	51
Lehman Caves Nat. Mon.	74	43	77	112	112	139	136	169	102	109
Leonard Creed Ranch	36	84	160	91	164	107	116	191	169	100
Lovelock	89	141	139	120	122	115	86	216	198	93
McGill	95	110	146	96	152	149	111	209	114	123
Montello	99	101	105	120	186	46	106	234	160	67
Orvada	77	82	107	77	90	70	89	144	150	68
Owyhee	72	83	75	84	94	91	116	127	196	M
Pahute Meadows Ranch	M	M	Station closed	-	-	-	-	-	-	-
Paradise Valley	63	109	139	94	157	75	176	213	234	91
Pequop	93	67	72	95	169	42	130	186	148	69
Rand Ranch Palisade	66	72	137	110	133	78	112	M	M	M
Reno	41	82	128	85	162	54	138	243	118	66
Ruby Lake	82	80	131	169	181	66	132	171	197	98
Rye Patch Dam	67	122	150	94	104	105	141	184	168	95
Tuscorora	70	82	117	132	180	88	201	207	195	89
Vya	78	M	M	Station closed	-	-	-	-	-	-
Wells	84	83	69	107	181	56	149	173	232	75
Winnemucca	69	84	96	79	86	56	99	131	168	79
Yerington	75	68	101	85	90	72	84	185	117	123

## CROP YEAR INDICES (FOR STATIONS ORIGINALLY INCLUDED IN SB 659), continued

## Oregon Stations

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Adel	66	84	189	93	159	105	160	202	100	-
Alkali Lake	34	86	154	68	94	116	110	125	84	52
Antelope 1N	72	42	120	85	125	110	165	-	-	101
Arlington	63	21	126	58	126	101	133	168	134	72
Austin 3S	90	47	106	80	101	101	139	133	134	80
Baker KBKR*	101	42	159	112	143	160	-	-	-	69
Barnes Station	86	73	165	118	138	104	164	193	201	110
Bend	70	23	132	66	114	95	174	127	121	73
Beulah	56	43	142	78	133	122	176	149	138	53
Brothers	68	64	163	105	112	90	137	155	128	83
Buena Vista Station	73	61	166	130	166	181	198	233	177	98
Burns WSO Cl	75	27	131	91	107	89	136	153	110	67
Chemult	72	20	127	58	95	90	146	104	100	70
Chiloquin 1E	68	23	159	56	-	90	193	165	127	94
Condon	105	53	143	91	162	153	133	146	143	77
Danner	83	38	114	84	88	126	142	126	170	66
Dayville	93	75	-	102	101	130	127	158	139	77
Dufur	75	19	150	69	147	115	132	179	116	90
Durkee 3NNW	-	-	-	-	-	-	-	-	-	-
Elgin	116	30	118	94	86	105	122	115	120	68
Enterprise	114	40	112	83	110	122	133	142	137	123
Fossil	94	47	128	85	139	139	158	166	154	91
Fremont	79	47	149	75	114	101	198	155	118	57
Friend	68	-	-	-	-	-	-	-	-	-
Grizzly	63	27	130	80	126	104	136	146	120	101
Halfway	107	20	152	93	96	127	148	144	137	77
Hardman	-	-	-	-	-	-	-	-	-	-
Harper	-	-	-	-	-	-	-	-	-	-
Hart Mountain Refuge	75	40	176	130	104	160	165	173	148	85
Heppner	98	43	130	94	133	123	101	144	143	89
Hermiston 2S	70	25	127	78	121	122	105	170	138	67
Hood River Exp. Sta.	121	19	112	52	106	96	116	134	100	102
Huntington	73	35	179	91	128	99	175	198	158	86
Ione 18S	53	18	117	83	155	85	-	-	-	56
Ironside 2W	53	34	123	90	133	115	147	154	118	86
John Day	93	54	117	88	116	128	118	152	160	78
Juntura 9ENE	67	46	162	89	149	127	175	205	144	-
Keno	72	37	126	61	104	66	162	106	107	79
Kent	85	46	134	71	130	115	149	143	131	80
Klamath Falls 2SSW	47	31	112	58	110	66	147	111	118	72
La Grande	90	35	105	95	78	86	89	90	89	62
Lakeview	64	21	104	63	102	84	144	118	98	64
Long Creek	89	93	146	105	125	190	205	206	292	128
Lower Hay Creek	77	31	152	75	153	111	158	169	143	95
Madras	73	21	150	63	143	112	141	162	131	91
Malheur Br. Exp. Sta.	78	48	153	86	125	126	157	181	133	58
Malheur Refuge Hdqtrs.	74	48	154	91	134	123	162	197	153	67
Metolius 1W	62	15	141	54	117	102	137	146	122	86
Mikkalo 6W	78	52	128	76	128	98	121	156	131	73
Milton-Freewater	95	39	119	93	126	138	120	151	154	96
Minam 7NE	133	40	125	94	89	109	110	91	110	-
Mitchell	84	62	131	102	110	86	117	163	150	91
Monument 2	89	61	123	110	109	126	128	176	144	78
Morgan	93	31	131	-	-	-	-	-	-	-
Moro	75	47	125	68	145	110	127	146	118	72
Nyssa	95	62	150	85	116	152	127	155	164	61
Ochoco Ranger Station	82	35	134	91	102	99	131	115	98	61
Ontario KSRV	85	34	152	79	107	127	170	181	154	68
OO Ranch	95	83	164	127	130	174	202	198	192	-
Owyhee Dam	73	69	185	96	144	171	175	227	181	79
Paisley	52	50	128	61	127	107	238	157	121	74
Paulina	85	59	143	98	123	117	137	165	115	-
Pelton Dam	80	21	171	73	146	146	208	243	181	120
Pendleton Br. Exp. Sta.	100	40	125	85	121	143	127	158	149	91
Pilot Rock	93	37	133	96	118	109	104	137	130	66
P-Ranch	77	43	116	122	110	128	120	193	153	73

CROP YEAR INDICES (FOR STATIONS ORIGINALLY INCLUDED IN SB 659), continued

Prineville 4NW	86	32	169	89	133	144	136	141	126	93
Redmond 2W	70	26	169	86	141	99	185	143	139	94
Richland	85	30	168	121	100	-	-	138	266	-
Riverside 2E	74	32	133	104	146	134	179	192	157	69
Rock Creek	77	34	107	88	100	111	98	117	118	69
Rockville 5N	95	63	153	95	143	174	141	186	164	89
Rome 2NW	58	54	143	101	83	134	112	150	153	72
Round Grove	66	59	154	74	117	98	192	147	131	78
Seneca	57	36	96	85	-	127	169	177	153	73
Sheaville 1SE	175	115	254	144	205	216	314	439	260	96
Squaw Butte Exp. Sta.	75	57	139	94	114	102	159	120	155	74
Summer Lake 1S	59	54	176	72	147	116	238	153	137	88
Suntex	70	58	158	95	118	114	174	185	165	85
The Dalles	82	13	120	51	122	104	115	158	109	69
Ukiah	83	43	105	80	86	90	112	116	104	50
Union Exp. Sta.	79	54	116	94	110	134	101	123	150	75
Unity	94	48	134	117	149	118	131	136	102	62
Vale	89	56	195	94	134	143	169	198	174	67
Valley Falls 3SSE	68	43	143	99	143	158	196	166	77	-
Wagontire	52	50	169	105	115	114	205	127	233	54
Walla Walla 13ESE	-	40	91	-	91	84	138	111	89	89
Wallowa	115	34	116	80	84	106	99	90	91	74
Wasco	86	31	125	53	143	125	146	154	110	80
Westfall 4NNW	56	31	147	88	127	136	166	176	153	-
Weston 2ESE	123	42	96	99	116	153	130	-	-	-
Wickiup Dam	78	24	112	72	94	110	181	155	139	91

\*Station closed - Baker AP utilized beginning 1985

Utah Stations

Station	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Bear River Refuge	109	66	105	91	155	102	133	254	-	-
Black Rock	52	75	101	174	126	133	117	173	148	120
Callao	83	149	102	120	149	187	187	269	184	83
Clear Lake Refuge	54	57	112	184	154	134	179	239	221	-
Deseret*	73	75	128	192	206	228	169	248	223	112
Desert Exp. Sta.	83	96	115	190	227	196	110	216	112	-
Dugway	83	115	148	158	227	121	213	287	212	139
Eureka	117	66	193	144	165	-	120	214	153	-
Farmington USU Fld. Sta.	91	69	125	84	128	104	121	208	173	102
Fillmore	68	42	107	117	122	125	127	202	200	127
Fish Springs Refuge	88	130	104	114	153	149	165	248	185	89
Garfield	110	59	112	85	126	121	136	238	133	110
Garrison	69	61	94	125	241	174	160	232	169	88
Grouse Creek	111	84	116	105	169	73	155	202	166	106
Ibapah	77	150	116	105	192	133	136	243	175	121
Logan USU**	130	48	121	90	157	118	163	192	206	111
Milford WSO AP	75	80	131	163	117	177	139	184	146	126
Nephi	62	50	121	126	155	153	162	241	173	117
Oak City	98	45	146	146	162	133	146	221	186	144
Park Valley	111	96	150	112	197	107	174	243	174	101
Partoun	112	185	144	150	160	166	222	337	146	139
Snowville	89	57	153	91	181	112	186	190	174	80
Tooele	99	67	106	88	114	91	128	179	179	137
Utah Lake Lehi	98	69	177	105	102	132	142	244	206	117
Wah Wah Ranch	47	46	126	176	112	184	61	165	142	143
Wendover WS MO	114	115	128	100	174	61	78	187	95	43

\*Misspelled Desert in Bulletin 659.

\*\*Recorded previously as Logan, USES

## CROP YEAR INDICES (FOR STATIONS ORIGINALLY INCLUDED IN SB 659), continued

## Washington Stations

	Year									
	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Anatone	98	34	116	93	89	105	-	-	-	-
Bickleton	83	23	130	57	139	100	132	176	131	83
Colfax 1NW	105	21	95	90	111	107	116	110	109	80
Connell 12SE	77	19	127	72	139	127	106	166	147	77
Dallesport FAA AP	89	13	149	66	147	125	132	169	132	88
Dayton 1 WSW	101	25	83	70	120	105	120	112	116	88
Ellensburg	79	29	152	36	132	120	109	169	138	83
Ephrata FAA AP	47	7	111	10	122	88	94	153	163	85
Hatton 9ESE	84	20	128	77	133	116	101	144	150	77
Ice Harbor Dam	96	26	158	109	166	165	138	173	171	91
Kahlotus 4SW	66	13	107	69	116	101	85	120	117	74
Kennewick	80	25	127	66	168	142	95	169	164	82
LaCrosse	102	24	116	86	142	122	150	139	132	95
Lind 3NE	89	23	127	83	148	118	100	162	159	80
Little Goose Dam	133	31	169	162	-	-	-	-	-	-
McNary Dam	85	23	163	91	155	158	137	240	180	79
Moxee City 10E	50	25	162	31	185	107	-	-	-	66
Odessa	69	20	142	56	146	120	104	164	157	91
Othello 6ESE	74	21	122	46	187	102	99	192	152	70
Pleasant View	66	15	90	-	-	-	-	-	-	-
Pomeroy	110	32	99	90	123	112	117	117	118	107
Priest Rapid Dam	67	13	148	31	148	90	93	191	148	72
Pullman 2NW	100	21	93	80	90	101	115	111	105	78
Quincy 1S	56	24	141	27	109	114	110	176	158	91
Richland	77	14	154	54	185	149	109	164	154	94
Ritzville 1SSE	79	19	121	85	123	115	99	142	149	84
Rosalia	86	34	122	98	131	125	112	147	117	98
Satus Pass 2SSW	107	18	136	43	121	126	155	182	166	96
St. John	116	23	109	83	99	117	110	136	132	95
Sunnyside	56	23	149	37	198	80	148	240	153	85
Wall Walla WSO C1	90	34	117	90	114	163	137	168	163	101
Wapato	50	19	158	34	189	116	148	201	174	74
Yakima WSO AP	57	18	144	45	149	94	144	187	147	74



Supplement to

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*Adjusting and Forecasting Herbage Yields*

*in the Intermountain Big Sagebrush Region of the Steppe Province.*

Oregon State University Agricultural Experiment Station Bulletin 659

## Section 3.

### Crop year indices (for new stations)

This section provides crop year indices for the 78 new stations not previously included in SB 659. Data are provided for the period 1946 to 1985 or for the entire recording history of these new stations if they began recording after 1946.

## CROP YEAR INDICES (FOR NEW STATIONS)

## CALIFORNIA STATIONS

Cropyear	Copco		Manzanita		McCloud	Mt. Shasta	Oak Knoll	Pit River	Sierraville		Vinton
	Chester	#1 Dam	Greenville	Lake				PHI	Ranger Station		
1985	57	78	68	79	53	-	85	80	75	62	
1984	121	117	130	133	94	99	114	98	147	157	
1983	203	125	213	179	195	202	157	162	221	257	
1982	165	143	175	181	150	147	165	165	230	190	
1981	82	67	85	78	80	78	66	90	58	85	
1980	133	107	122	122	109	107	122	159	152	163	
1979	82	62	78	82	68	74	68	90	69	72	
1978	149	122	162	134	163	190	131	143	128	142	
1977	24	36	20	45	14	11	30	32	42	35	
1976	13	64	78	53	37	35	73	31	59	66	
1975	98	90	99	69	98	91	111	93	102	75	
1974	118	131	193	148	150	186	197	134	144	100	
1973	99	50	94	79	88	86	63	100	107	111	
1972	67	118	82	62	63	56	136	-	69	68	
1971	126	133	141	127	109	96	150	-	159	142	
1970	137	112	138	149	116	99	117	-	138	158	
1969	160	95	173	141	141	125	137	-	176	166	
1968	99	51	91	88	69	80	62	-	75	72	
1967	149	105	162	115	138	131	114	-	168	164	
1966	68	51	64	52	83	106	85	-	46	54	
1965	130	104	144	126	100	111	155	-	150	111	
1964	77	83	75	84	56	56	91	-	88	100	
1963	150	122	149	152	127	122	144	-	205	196	
1962	100	83	95	66	101	102	89	-	91	115	
1961	100	100	80	106	100	102	91	-	52	75	
1960	83	62	79	83	86	73	80	-	89	70	
1959	70	-	72	68	89	91	56	-	64	51	
1958	176	-	169	175	189	203	171	-	139	139	
1957	94	-	93	96	90	84	85	-	93	82	
1956	179	-	179	155	139	150	164	-	190	181	
1955	61	-	61	69	56	64	29	-	68	56	
1954	110	-	105	104	118	102	107	-	83	56	
1953	114	-	118	-	112	-	130	-	98	111	
1952	166	-	159	-	123	-	126	-	189	163	
1951	114	-	121	-	114	-	116	-	163	169	
1950	99	-	102	-	62	-	84	-	105	91	
1949	68	-	58	-	67	-	66	-	64	86	
1948	117	-	101	-	95	-	91	-	80	80	
1947	59	-	77	-	79	-	62	-	78	80	
1946	91	-	93	-	109	-	91	-	105	126	

## CROP YEAR INDICES (FOR NEW STATIONS), continued

## IDAHO STATIONS

Cropyear	Brownlee			Cambridge	Cascade	Craters of the Moon	Garden Valley		Henry	Howe	Idaho Falls 46W
	Blackfoot	Dam	Bruneau				Ranger Station				
1985	66	74	80	83	75	51	69	85	53	73	
1984	90	120	180	116	128	114	115	171	189	155	
1983	91	120	190	147	139	100	126	136	153	118	
1982	74	125	128	122	164	149	144	123	141	94	
1981	100	127	160	102	136	107	95	96	179	122	
1980	96	98	141	90	126	142	102	121	127	94	
1979	59	133	85	66	59	45	54	121	109	80	
1978	101	147	168	126	133	112	118	142	152	89	
1977	63	23	70	166	29	50	29	66	131	61	
1976	93	95	118	84	93	75	74	137	79	90	
1975	120	68	105	105	73	100	83	-	152	134	
1974	91	109	122	131	153	61	133	126	73	109	
1973	105	88	104	78	69	85	70	118	111	96	
1972	122	96	107	99	90	91	101	217	139	116	
1971	120	126	207	149	138	125	143	-	153	110	
1970	147	111	200	126	106	80	110	-	123	89	
1969	139	102	128	100	125	181	105	-	158	128	
1968	136	77	96	90	89	98	63	-	143	107	
1967	136	94	105	107	99	126	77	-	179	104	
1966	62	-	63	43	68	68	40	-	66	43	
1965	52	-	149	107	153	137	121	-	201	173	
1964	115	-	138	116	91	90	80	-	134	125	
1963	190	-	99	104	150	118	98	-	176	171	
1962	131	-	-	88	96	116	80	-	190	184	
1961	80	-	-	89	79	36	52	-	51	61	
1960	47	-	-	96	100	53	109	-	82	91	
1959	-	-	-	68	94	-	78	-	93	70	
1958	-	-	-	125	107	-	105	-	116	94	
1957	-	-	-	123	105	-	109	-	131	169	
1956	-	-	-	137	141	-	138	-	100	74	
1955	-	-	-	57	57	-	58	-	69	48	
1954	-	-	-	75	89	-	99	-	57	-	
1953	-	-	-	98	96	-	100	-	79	-	
1952	-	-	-	157	110	-	115	-	91	-	
1951	-	-	-	86	78	-	100	-	79	-	
1950	-	-	-	98	114	-	100	-	69	-	
1949	-	-	-	95	100	-	82	-	-	-	
1948	-	-	-	107	120	-	91	-	64	-	
1947	-	-	-	101	132	-	101	-	94	-	
1946	-	-	-	100	116	-	104	-	82	-	

IDAHO STATIONS  
(continued)

Cropyear	Ketchum		Malad City	Massacre Rock		Middle		Yellow Pine
	Ranger Station	Leadore 2		State Park	Fork Lodge	Stanley		
1985	68	-	77	58	69	-	77	
1984	118	-	162	149	112	100	133	
1983	168	67	168	170	134	120	133	
1982	138	96	160	125	150	134	149	
1981	98	138	75	130	141	160	131	
1980	121	136	149	146	120	120	109	
1979	72	80	78	63	54	51	53	
1978	114	100	134	100	131	118	118	
1977	64	116	52	62	47	36	36	
1976	85	148	105	101	115	-	111	
1975	104	83	101	134	63	-	72	
1974	123	73	118	84	154	-	171	
1973	-	88	106	-	64	54	68	
1972	-	105	111	-	82	88	75	
1971	-	111	164	-	-	115	155	
1970	-	83	-	-	-	138	-	
1969	-	114	-	-	-	90	-	
1968	-	118	-	-	-	85	-	

CROP YEAR INDICES (FOR NEW STATIONS), continued

Cropyear	IDAHO STATIONS (continued)						
	Ketchum Ranger Station	Leadore 2	Malad City	Massacre Rock State Park	Middle Fork Lodge	Standley	Yellow Pine
1967	-	128	-	-	-	-	-
1966	-	45	-	-	-	-	-
1965	-	-	-	-	-	134	-
1964	-	-	-	-	-	82	-
1963	-	-	-	-	-	-	-
1962	-	-	-	-	-	-	-
1961	-	-	-	-	-	-	-
1960	-	-	-	-	-	-	-
1959	-	-	-	-	-	-	-
1958	-	-	-	-	-	-	-
1957	-	-	-	-	-	-	-
1956	-	-	-	-	-	-	-
1955	-	-	-	-	-	-	-
1954	-	-	-	-	-	-	-
1953	-	-	-	-	-	-	-
1952	-	-	-	-	-	-	-
1951	-	-	-	-	-	-	-
1950	-	-	-	-	-	-	-
1949	-	-	-	-	-	-	-
1948	-	-	-	-	-	-	-
1947	-	-	-	-	-	-	-
1946	-	-	-	-	-	-	-









## CROP YEAR INDICES (FOR NEW STATIONS), continued

OREGON STATIONS  
(continued)

Cropyear	Pine Mountain				
	McDermitt	Observatory	Silver Lake	Sisters	Whitehorse
1985	56	-	75	105	121
1984	176	-	101	101	134
1983	136	-	154	111	93
1982	95	-	189	184	104
1981	96	114	110	101	73
1980	104	84	117	117	96
1979	85	134	58	67	99
1978	112	201	158	117	118
1977	50	86	72	15	35
1976	104	98	54	74	73
1975	84	102	69	89	80
1974	61	173	150	138	84
1973	98	53	47	35	99
1972	208	85	73	106	111
1971	137	-	105	110	132
1970	99	109	112	80	99
1969	101	245	122	80	115
1968	68	-	-	54	64
1967	72	-	-	96	100
1966	19	-	-	46	31
1965	106	-	-	148	-
1964	107	-	-	62	-
1963	153	-	-	94	-
1962	116	-	-	116	-
1961	85	-	-	106	-
1960	82	-	-	69	-
1959	56	-	-	68	-
1958	105	-	-	-	-
1957	104	-	-	-	-
1946-56	-	-	-	-	-

## CROP YEAR INDICES (FOR NEW STATIONS), continued

## UTAH STATIONS

Cropyear	Bear River	Callisten	Eskdale	Gold	Grants-	Logan	Ogden	River-	Thiokol	Vernon
	Bay	River		Hill	ville	Utah State Univ.	Pioneer PH	dale	Plant 78	
1985	105	-	95	109	116	96	95	112	86	193
1984	166	146	143	197	193	179	185	163	196	202
1983	225	171	187	362	202	166	196	205	223	282
1982	131	137	153	139	146	141	141	130	184	173
1981	110	94	136	170	85	102	110	109	118	139
1980	180	150	111	216	141	136	148	166	195	207
1979	111	96	110	93	98	78	102	118	100	132
1978	120	131	64	131	118	102	114	150	138	141
1977	67	56	57	137	63	43	66	85	72	80
1976	141	107	95	61	70	122	117	104	121	72
1975	165	133	170	100	115	99	174	154	121	125
1974	109	101	38	78	102	116	116	122	115	109
1973	122	122	169	165	138	94	142	132	114	109
1972	110	104	46	70	115	99	110	105	112	116
1971	112	130	73	152	143	138	128	122	154	176
1970	69	101	62	83	112	70	89	89	90	121
1969	-	130	168	150	117	105	100	100	73	133
1968	-	122	230	137	123	110	116	116	105	155
1967	-	-	-	163	142	122	126	99	153	251
1966	-	-	-	-	57	83	78	78	88	68
1965	-	-	-	-	109	192	98	98	122	111
1964	-	-	-	-	162	127	139	127	169	198
1963	-	-	-	-	112	74	80	82	114	-
1962	-	-	-	-	127	116	138	130	-	-
1961	-	-	-	-	74	59	56	59	-	-
1960	-	-	-	-	66	63	74	75	-	-
1959	-	-	-	-	75	86	66	68	-	-
1958	-	-	-	-	73	58	93	90	-	-
1957	-	-	-	-	111	99	110	130	-	-
1956	-	-	-	-	-	94	100	107	-	-
1955	-	-	-	-	-	83	83	78	-	-
1954	-	-	-	-	-	48	45	48	-	-
1953	-	-	-	-	-	74	93	86	-	-
1952	-	-	-	-	-	101	111	126	-	-
1951	-	-	-	-	-	114	100	100	-	-
1950	-	-	-	-	-	101	96	90	-	-
1949	-	-	-	-	-	102	126	123	-	-
1948	-	-	-	-	-	127	117	122	-	-
1947	-	-	-	-	-	109	118	114	-	-
1946	-	-	-	-	-	-	84	102	-	-

## CROP YEAR INDICES (FOR NEW STATIONS), continued

## WASHINGTON STATIONS

Cropyear	Eltopia	Goldendale	Prosser	Syrna	Sunnyside	White Swan Ranger Station
1985	83	73	95	63	85	-
1984	147	98	163	191	153	-
1983	163	150	191	193	240	-
1982	80	109	125	100	148	-
1981	134	98	115	100	80	111
1980	128	112	174	173	198	175
1979	48	37	36	36	37	48
1978	104	111	136	133	149	155
1977	10	13	24	8	23	18
1976	67	82	61	50	53	67
1975	109	89	94	104	101	133
1974	155	153	184	200	214	251
1973	53	57	56	42	50	57
1972	93	123	132	107	152	111
1971	70	100	96	84	90	127
1970	106	100	115	-	99	137
1969	120	122	139	-	121	150
1968	36	80	42	-	57	56
1967	91	85	105	-	116	115
1966	40	66	48	83	52	52
1965	99	132	110	84	111	107
1964	57	79	-	78	54	43
1963	101	86	-	118	125	101
1962	64	93	-	98	78	54
1961	130	138	-	148	142	107
1960	107	82	-	102	100	66
1959	118	90	-	122	83	61
1958	142	127	-	143	169	100
1957	91	74	-	125	106	110
1956	116	130	-	131	180	209
1955	54	42	-	72	61	40
1954	-	90	-	72	80	86
1953	-	120	-	-	75	88
1952	-	104	-	-	96	85
1951	-	160	-	-	179	138
1950	-	101	-	-	144	101
1949	-	105	-	-	75	99
1948	-	134	-	-	193	162
1947	-	89	-	-	85	-
1946	-	122	-	-	112	-

Supplement to

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## Section 4.

### Crop year indices (all stations, 1986- )

This section provides crop year indices for 1986 and 1987 for all stations represented in both SB 659 and this supplement. In addition, it provides a format and spaces for recording data as they become available for each of those stations from 1988 to 1995.



1986    1987    1988    1989    1990    1991    1992    1993    1994    1995

**IDAHO** (continued)

Caldwell	136	83
Cambridge	116	80
Cascade 1NW	133	69
Castleford 2N	116	63
Challis	122	106
Craters of the Moon NP	83	50
Deer Flat Dam	117	99
Dubois Exp. Sta.	144	86
Garden Valley RS	109	74
Glenn's Ferry	169	74
Grace	168	112
Grandview 2W	185	69
Grouse	163	105
Haily 3NNW	-	99
Hamer 4NW	150	99
Hazelton	163	78
Henry	150	85
Hill City 1W	110	48
Hollister	111	107
Howe	162	62
Idaho City	116	54
Idaho Falls AP	165	101
Idaho Falls 46W	153	84
Jerome	175	90
Ketchum RS	128	79
Kuna 2NNE	139	84
Leadore 8W	202	185
Lifton Pumping Sta.	168	100
MacKay RS	99	93
Malad	-	-
Malad City	123	86
Massacre Rock SP	138	80
May	139	82
McCall	104	64
Middlefork Lodge	136	56
Motpelier RS	117	89
Mountain Home	185	70
Oakley	105	86
Parma Exp. Sta.	114	100
Paul 1ENE	169	62
Payette	-	72
Picabo	133	57
Pocatello A.P.	162	83
Rexburg Ricks C.	136	116
Reynolds	111	75
Richfield	148	46
Shoshone 1WNW	159	70
Stanley	109	72
Strevel	120	-

1986    1987    1988    1989    1990    1991    1992    1993    1994    1995

**IDAHO** (continued)

Swan Falls PH	162	114
Swan Valley 2E	111	112
Tetonia Exp. Sta.	125	122
Three Creek	125	-
Twin Falls WSO	169	73
Yellow Pine Bar	123	64

**NEVADA**

Arthur 4NW	120	70
Austin	107	133
Battle Mtn. AP	126	164
Beowawe	146	184
Beowawe - U. of N.	96	99
Brinkerhoff Rch.	-	-
Buffalo	-	-
Carlin Gold Mine	88	109
Carson City	179	32
Cen. Nev. Field Lab.	-	-
Clover Valley	170	83
Contact	115	-
Deeth	170	114
Denio	142	159
Duckwater	85	137
Dufurrena	146	98
Elko AP	110	67
Ely AP	143	114
Emigrant Pass Hwy	130	77
Eureka	110	131
Fallon Exp. Sta.	95	89
Ferguson Springs	-	-
Gibbs Ranch	155	95
Glennbrook	171	-
Golconda	136	120
Imlay	133	158
Jungo-Meyer Ranch	88	-
Kings River Ranch	114	88
Lehman Cave NM	120	112
Leonard Creek Ranch	150	121
Lovelock	102	138
Lund	175	77
McGill	118	122
Metropolis	139	93
Montello 1SE	112	93
Mountain City RS	128	82
Northfork	-	-
Orovada	102	68
Owyhee	-	-



1986    1987    1988    1989    1990    1991    1992    1993    1994    1995

**NEVADA** (continued)

Pahute Meadow	-	-
Paradise Valley	182	105
Parris Ranch	131	122
Rand Ranch Pall.	-	-
Reno AP	181	106
Reese River RS	101	127
Ruby Lake	131	88
Rye Patch Dam	114	155
Snowball Ranch	90	107
Sutcliff	-	86
Tuscarora	104	88
Vya	-	-
Wells	109	86
Winnemucca	90	104
Yerington	169	96

**OREGON**

Adel	-	110
Alkali Lake	104	64
Andrews-Weston Mine	157	123
Antelope 1NW	107	105
Arlington	86	88
Ashwood	116	111
Austin 3S	89	77
Baker AP	99	68
Barnes Station	118	120
Bend	101	75
Beulah	105	79
Boardman	94	101
Brothers	88	94
Buena Vista Station	154	171
Burns	96	84
Burns Junction	142	101
Chemult	82	58
Chiloquin 7NW	109	79
Condon	109	105
Cove	107	62
Danner	90	96
Dayville 8NW	95	83
Drewsey	100	73
Dufur	131	96
Elgin	94	72
Enterprise 2S	138	125
Enterprise 2ONE	90	89
Fossil	111	86
Fremont 5NW	-	86
Gibbon	104	90
Grizzly	77	100
Halfway	105	70



1986    1987    1988    1989    1990    1991    1992    1993    1994    1995

**OREGON** (continued)

Squaw Butte Ex. Sta.	130	100
Summer Lake 1S	179	91
Suntex	127	131
The Dalles	100	83
The Poplars	149	93
Ukiah	84	88
Union Exp. Sta.	104	82
Unity	80	-
Vale	106	96
Valley Falls	130	101
Wagontire	109	-
Walla Walla 13ESE	-	90
Wallowa	98	73
Wasco	110	86
Westfall 4NNW	-	64
Whitehorse	-	205
Wickiup Dam	134	79

**UTAH**

Bear River Bay	168	130
Bear River Refuge	-	-
Black Rock	132	114
Callao	138	177
Callister Ranch	-	-
Clear Lake Refuge	-	-
Deseret	147	75
Desert Exp. Sta.	-	-
Dugway	270	126
Eskdale	96	173
Eureka	-	-
Farmington USU	197	101
Fillmore	152	90
Fish Springs Refuge	251	148
Garfield	185	109
Garrison	115	143
Goldhill	212	-
Grantsville	203	95
Grouse Creek	152	109
Ibapah	146	173
Logan - USU	182	105
Milford	163	75
Nephi	169	104
Oak City	153	98
Ogden Pioneer PH	179	80
Park Valley	-	137
Partoun	164	184
Riverdale	180	101
Snowville	148	100
Thiokol Plant 78	152	116

1986    1987    1988    1989    1990    1991    1992    1993    1994    1995

**UTAH** (continued)

Tooele	175	115
Utah Lake Lehi	170	90
Vernon	203	130
Wah Wah Ranch	94	101
Wendover	74	224

**WASHINGTON**

Awatone	-	-
Bickleton	107	88
Colfax 1NW	83	62
Connell 12SE	105	93
Dallesport AP	117	80
Dayton 1WSW	101	82
Ellensburg	89	94
Eltopia 8WSW	111	101
Ephrata AP	96	104
Goldendale 2E	74	74
Hatton 9SE	109	83
Ice Harbor Dam	117	95
Kahlotus 5SSW	75	80
Kennewick	143	88
LaCrosse	120	63
Lind 3NE	102	74
Little Goose Dam	-	-
McNary Dam	144	96
Moxee City 10E	121	109
Odessa	112	91
Othello	80	-
Pleasant View	-	-
Pomeroy	114	73
Priest Rapids Dam	90	89
Prosser 4NE	118	136
Pullman 2NW	82	75
Quincy 1S	66	96
Richland	138	122
Ritzville 1SSE	107	84
Rosalia	115	85
Satus Pass 2SSW	79	90
Smyrna	83	80
St. John	72	64
Sunnyside	132	107
Walla Walla CI	131	106
Wapato	136	117
White Swan	-	-
Yakima AP	111	105

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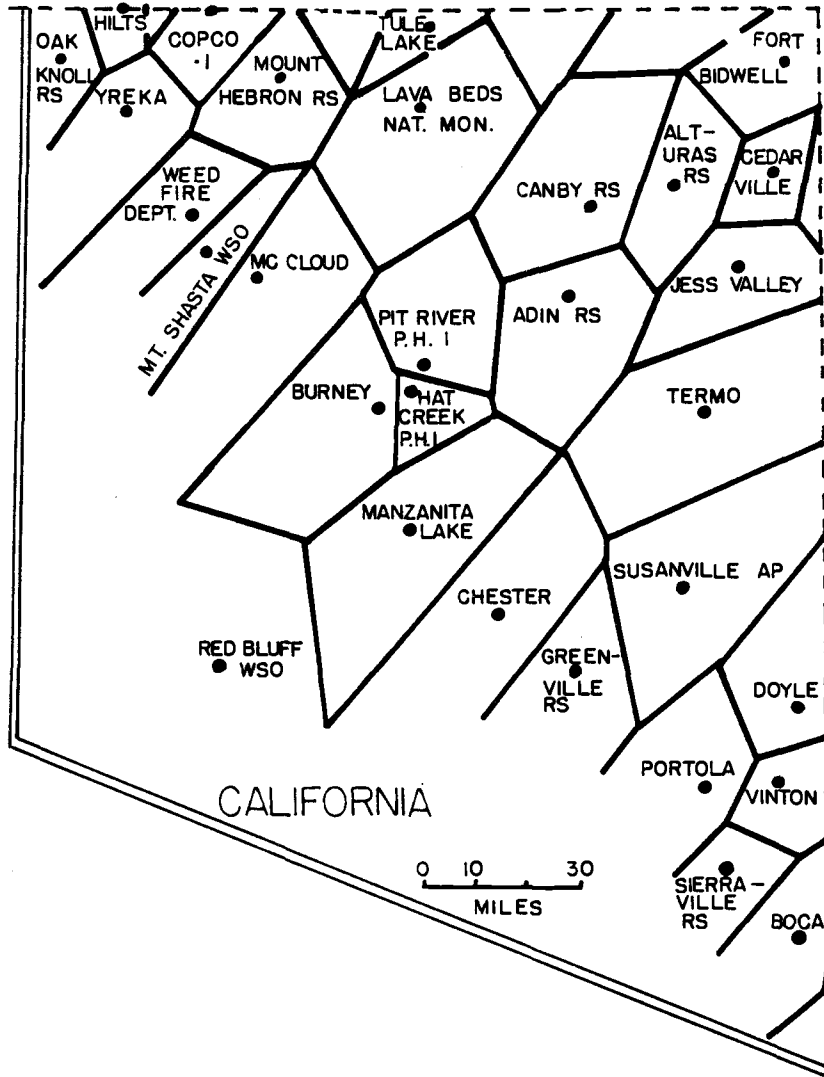
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## Section 5.

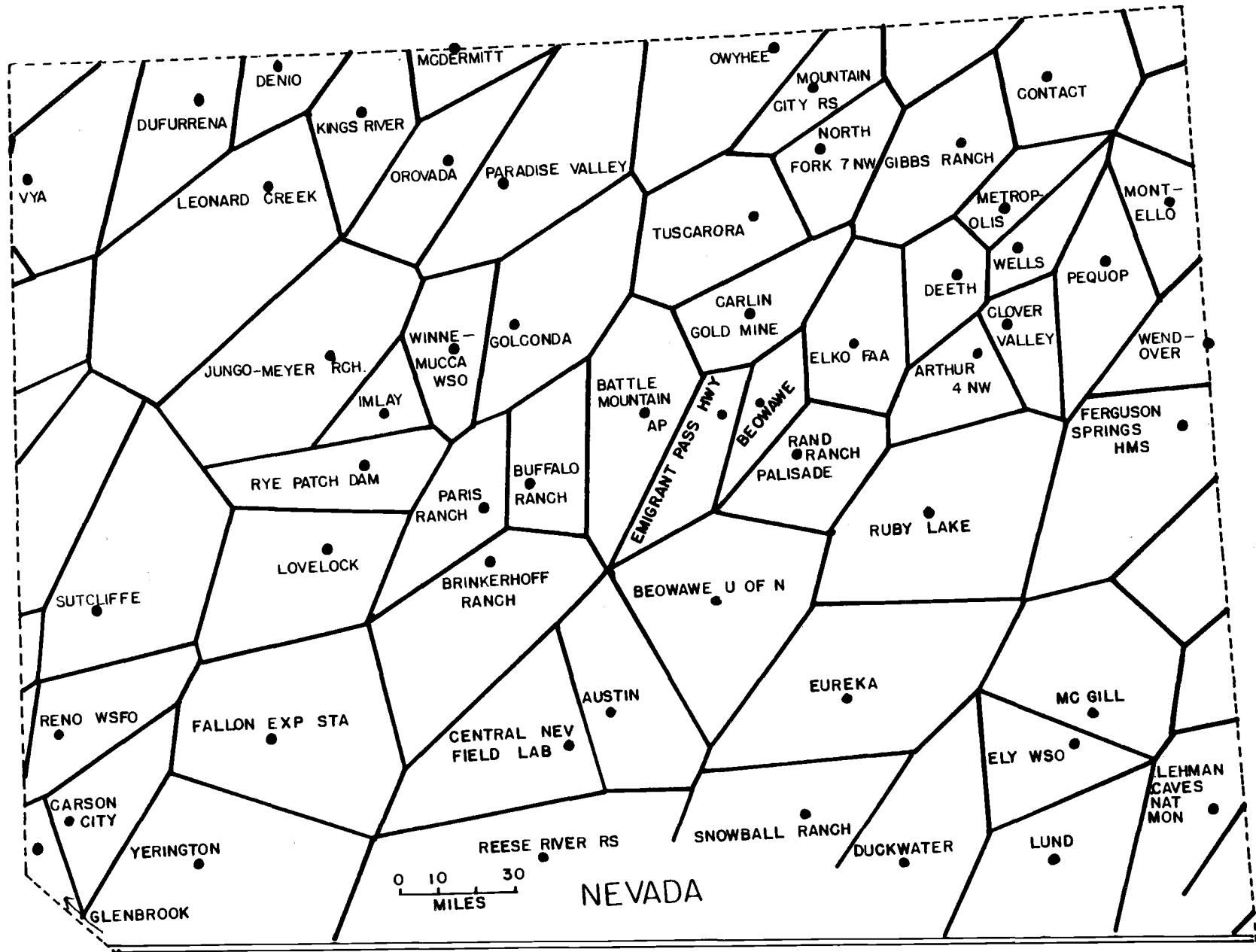
### Modified Thiessen grids for portions of the five Western states that are within the sagebrush steppe.

These six modified Thiessen precipitation similarity grids, by State, identify the stations for which data are presented in SB 659 and this supplement. The grids are produced using the area-wide isohomeotrophe diagram as presented in Figure 3 of the bulletin (page 30). The base maps used were those of the National Oceanic and Atmospheric Administration, adjusted to the same scale. Because they are in the same scale, they may be reproduced and fitted together with only normal projection errors and they can be reduced or enlarged uniformly without losing their point-line relationship.









OREGON

