

## Appendix C - Climate

Table C-1. Summary statistics for precipitation at Acuña Site weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 7.95 inches (201.9mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.81	0.94	0.87	0.30	0.05	0.02	0.85	1.95	0.65	0.37	0.30	0.85
S.D.	1.01	0.98	0.89	0.40	0.13	0.04	0.94	1.25	0.94	0.62	0.37	1.29
Skew	1.51	0.94	1.26	1.23	3.29	2.36	0.88	0.20	2.34	2.17	1.39	1.74
Max	3.27	3.11	3.07	1.26	0.51	0.13	2.60	4.13	3.73	2.17	1.30	4.21
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
Years	17	17	17	17	18	18	17	18	18	18	18	18

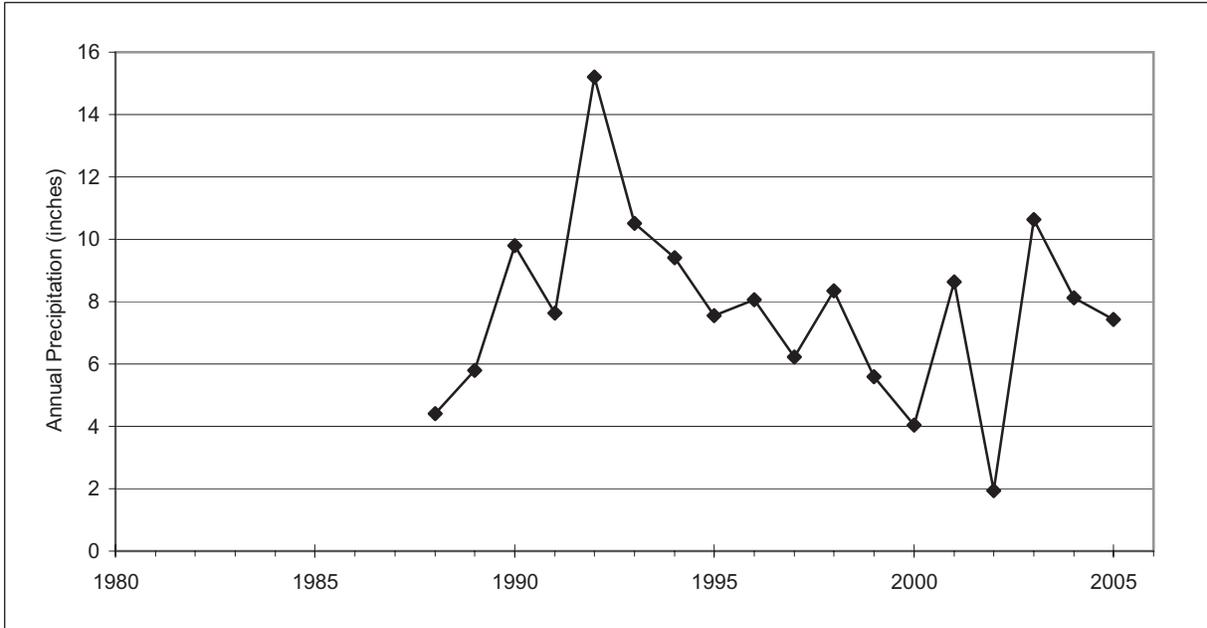


Figure C-1a. Annual precipitation at Acuña Site weather station, 1988 to 2005.

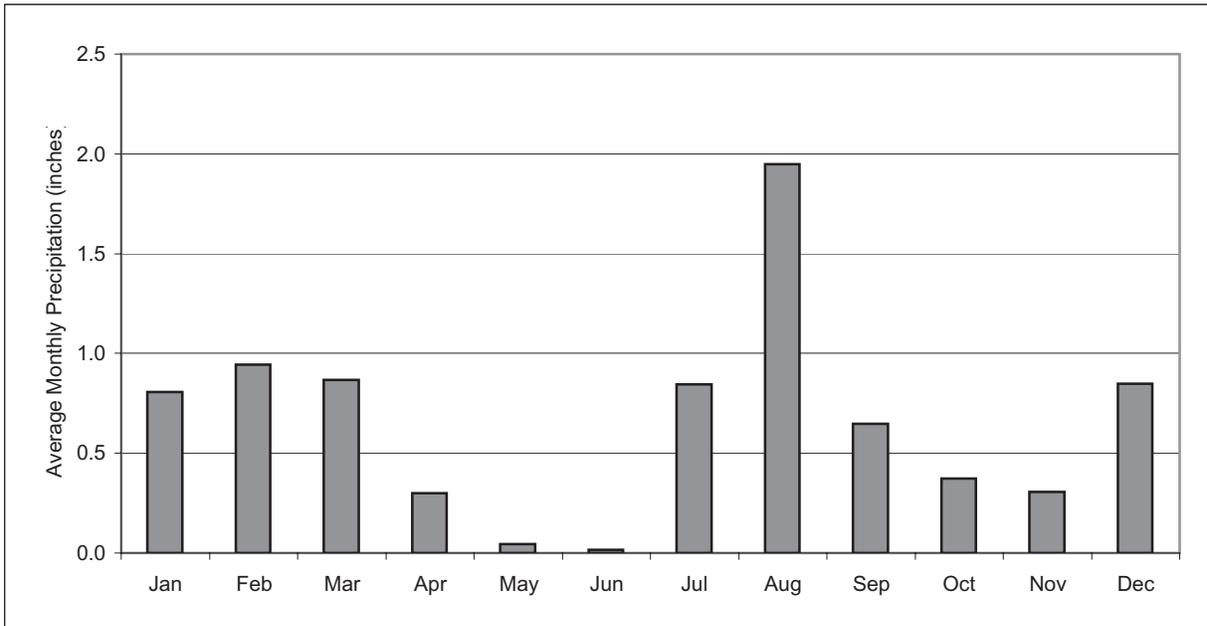


Figure C-1b. Average monthly precipitation at Acuña Site weather station, 1988 to 2005.

Table C-2. Summary statistics for precipitation at Aguajita Wash weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 7.39 inches (187.7mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.76	0.85	0.81	0.27	0.06	0.00	0.67	1.64	0.72	0.33	0.35	0.94
S.D.	0.73	0.73	0.78	0.34	0.12	0.00	0.75	1.82	1.01	0.45	0.40	1.25
Skew	1.32	0.47	1.36	1.55	1.88	NA	1.01	1.69	1.95	2.18	1.37	1.55
Max	2.40	2.23	2.56	1.16	0.35	0.00	2.32	6.34	3.54	1.57	1.34	4.17
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Years	14	14	13	14	14	14	14	12	14	15	14	15

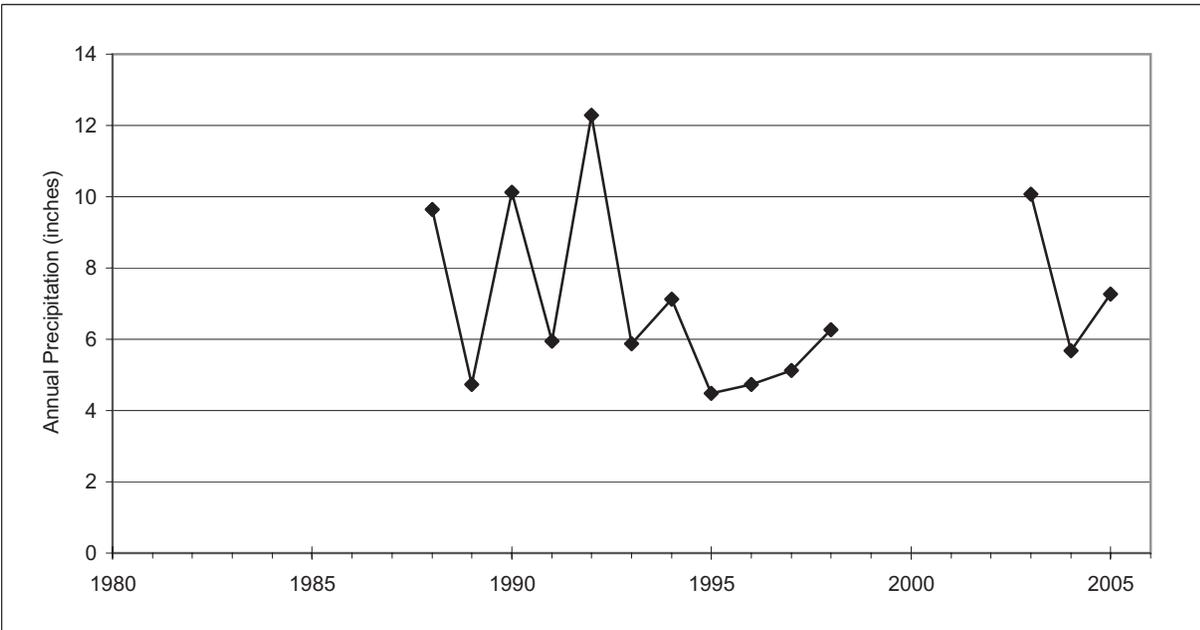


Figure C-2a. Annual precipitation at Aguajita Wash weather station, 1988 to 2005.

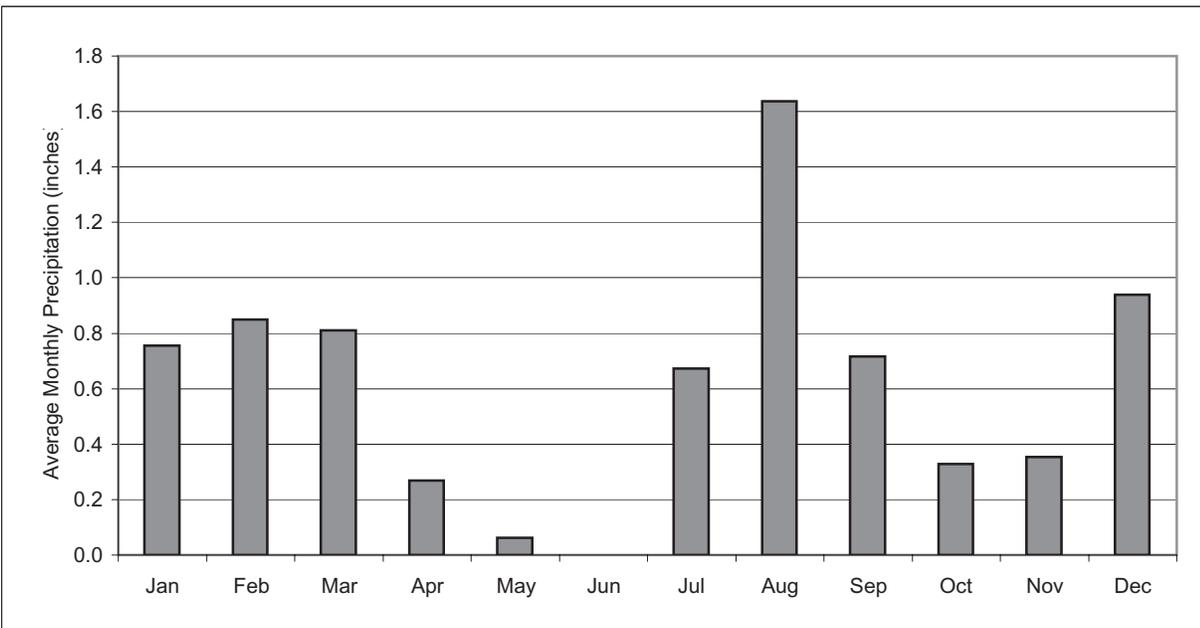


Figure C-2b. Average monthly precipitation at Aguajita Wash weather station, 1988 to 2005.

Table C-3. Summary statistics for precipitation at Alamo Canyon weather station (in canyon), 1996 to 2005, Organ Pipe Cactus N.M. Average annual total is 10.95 inches (278.1mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.90	1.30	0.89	0.62	0.02	0.05	1.42	2.64	1.25	0.65	0.33	0.88
S.D.	1.16	1.25	1.26	0.91	0.05	0.11	1.06	1.67	1.98	0.71	0.31	1.38
Skew	1.77	0.64	1.59	1.68	2.98	2.30	1.77	-0.17	2.74	1.49	0.22	2.09
Max	3.55	3.50	3.47	2.60	0.16	0.31	3.92	5.36	6.69	2.21	0.72	4.35
Min	0.06	0.00	0.02	0.00	0.00	0.00	0.20	0.05	0.00	0.00	0.00	0.00
Years	9	9	8	9	9	9	9	9	10	10	10	10

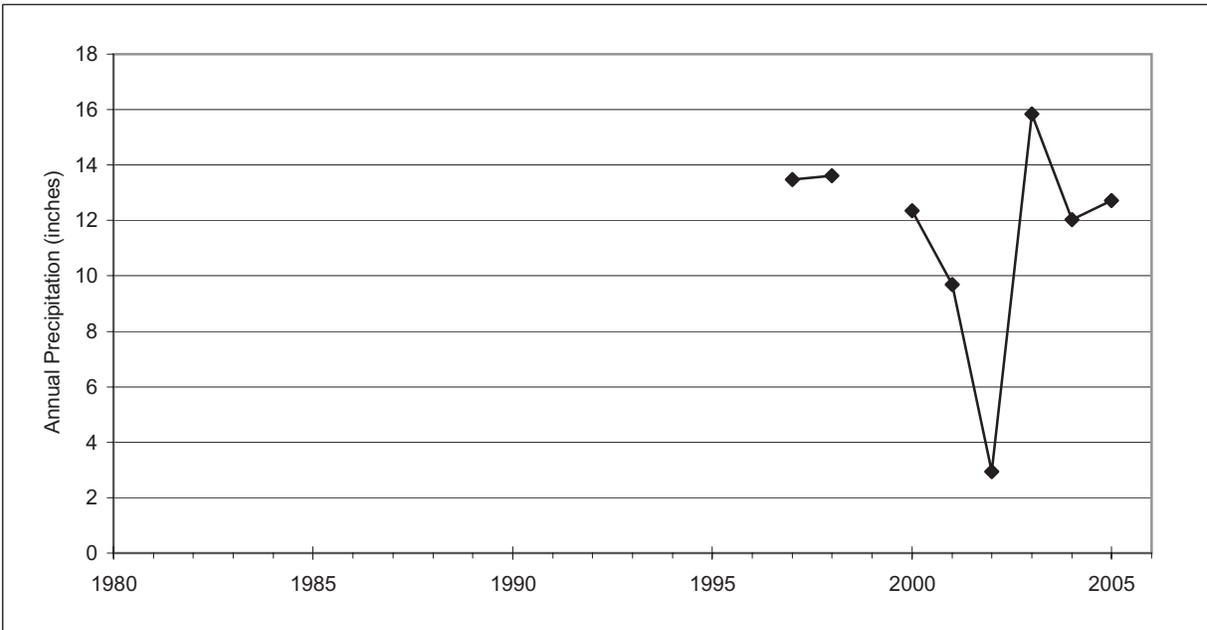


Figure C-3a. Annual precipitation at Alamo Canyon weather station (in canyon), 1996 to 2005.

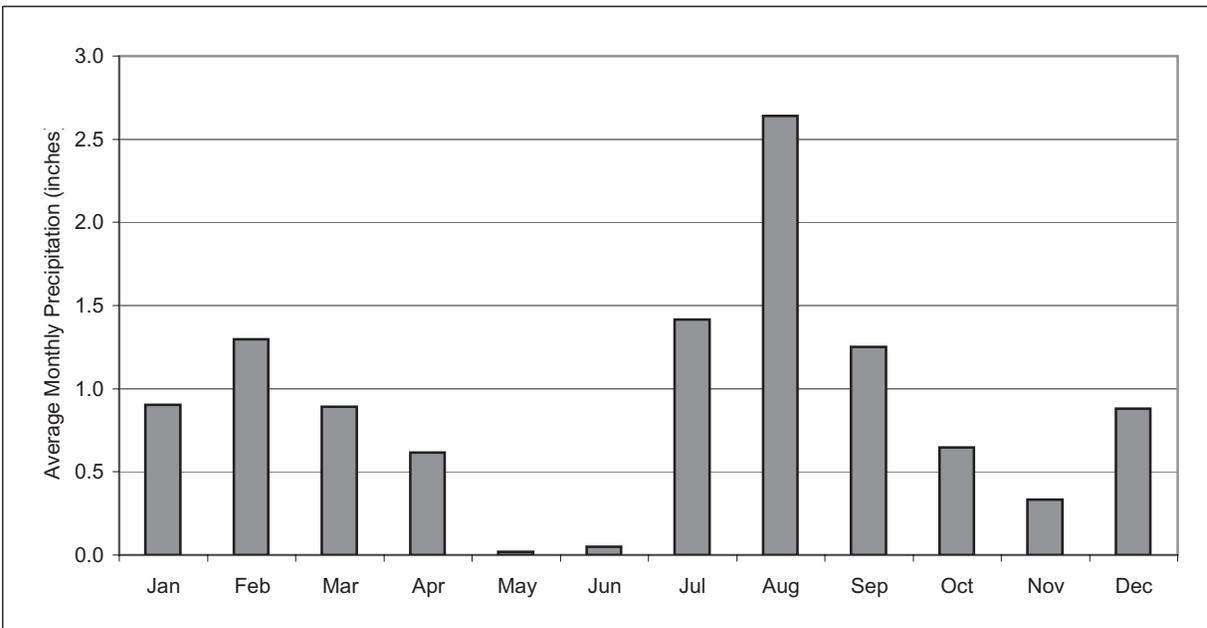


Figure C-3b. Average monthly precipitation at Alamo Canyon weather station (in canyon), 1996 to 2005.

Table C-4. Summary statistics for precipitation at Bull Pasture weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 11.93 inches (303.0mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	1.41	1.25	1.03	0.50	0.08	0.04	1.69	2.44	0.87	0.68	0.51	1.41
S.D.	1.94	1.17	1.10	0.66	0.15	0.15	1.39	1.56	1.21	0.78	0.73	1.93
Skew	2.55	1.08	1.16	1.78	2.15	4.13	1.28	1.07	2.58	1.68	2.57	1.42
Max	7.99	4.35	2.99	2.48	0.51	0.66	5.20	6.85	5.03	2.83	3.03	5.67
Min	0.03	0.00	0.02	0.00	0.00	0.00	0.12	0.27	0.00	0.00	0.00	0.00
Years	18	17	18	18	17	18	18	18	18	18	18	18

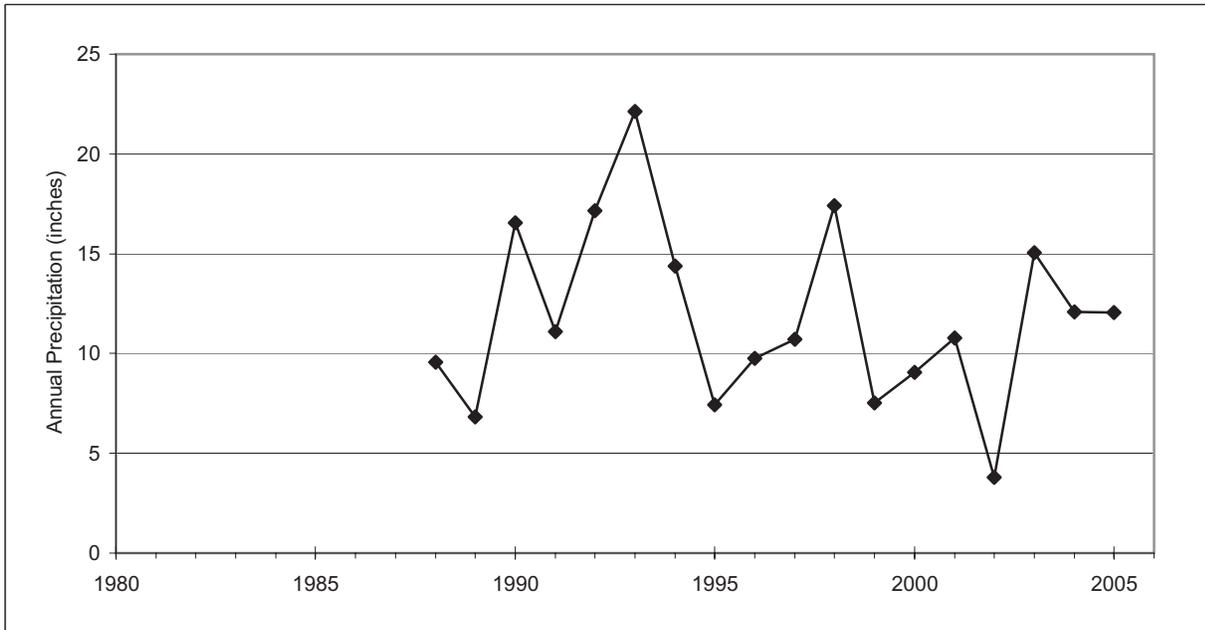


Figure C-4a. Annual precipitation at Bull Pasture weather station, 1988 to 2005.

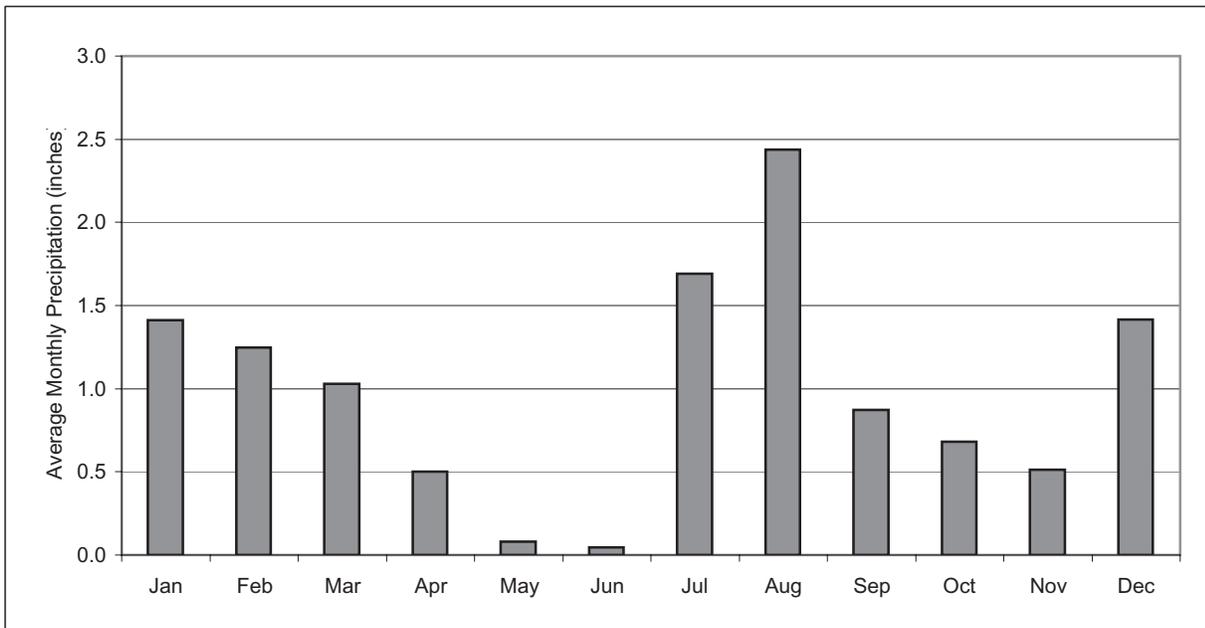


Figure C-4b. Average monthly precipitation at Bull Pasture weather station, 1988 to 2005.

Table C-5. Summary statistics for precipitation at East Armenta weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 7.97 inches (202.4mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.73	0.92	0.80	0.32	0.06	0.03	1.43	1.62	0.47	0.42	0.33	0.84
S.D.	0.82	0.98	0.89	0.50	0.13	0.08	1.18	1.17	0.53	0.61	0.44	1.18
Skew	1.35	0.82	1.42	2.15	2.53	3.20	0.78	0.76	0.77	1.95	1.88	1.56
Max	2.91	3.13	3.11	1.91	0.47	0.32	4.02	3.94	1.55	1.97	1.69	3.70
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.07	0.00	0.00	0.00	0.00
Years	17	17	17	18	18	18	18	17	17	17	18	18

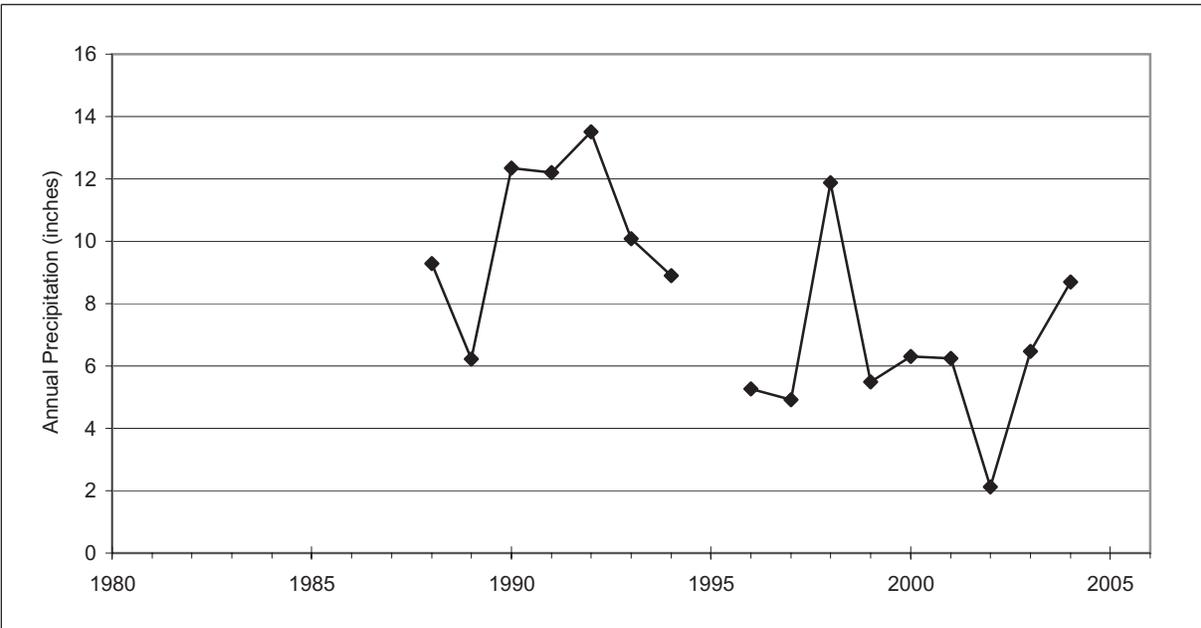


Figure C-5a. Annual precipitation at East Armenta weather station, 1988 to 2005.

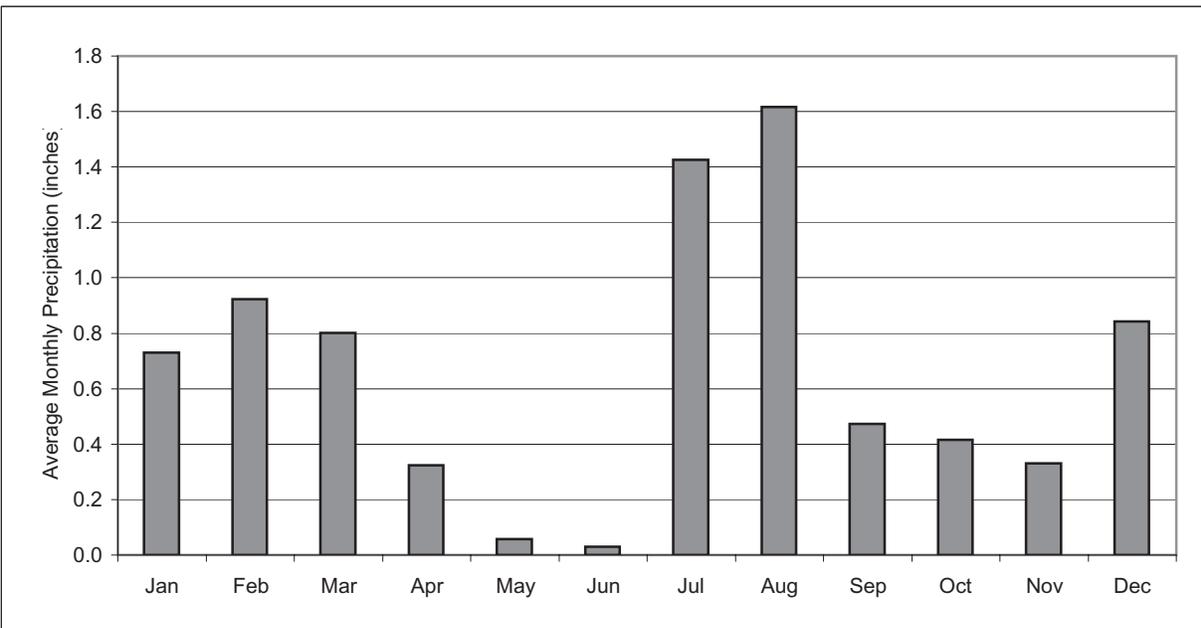


Figure C-5b. Average monthly precipitation at East Armenta weather station, 1988 to 2005.

Table C-6. Summary statistics for precipitation at Growler Valley weather station (and rain gauge), 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 8.72 inches (221.5mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.71	0.99	0.77	0.28	0.05	0.04	1.16	1.92	0.73	0.61	0.54	0.93
S.D.	0.75	0.84	0.77	0.38	0.10	0.12	1.47	1.46	0.89	0.96	0.65	1.08
Skew	1.35	0.22	0.93	1.38	2.28	4.35	2.23	1.02	1.22	2.18	1.24	1.49
Max	2.64	2.35	2.41	1.35	0.41	0.59	6.42	5.37	2.99	3.71	2.13	3.90
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
Years	24	23	24	24	24	24	24	24	24	24	24	24

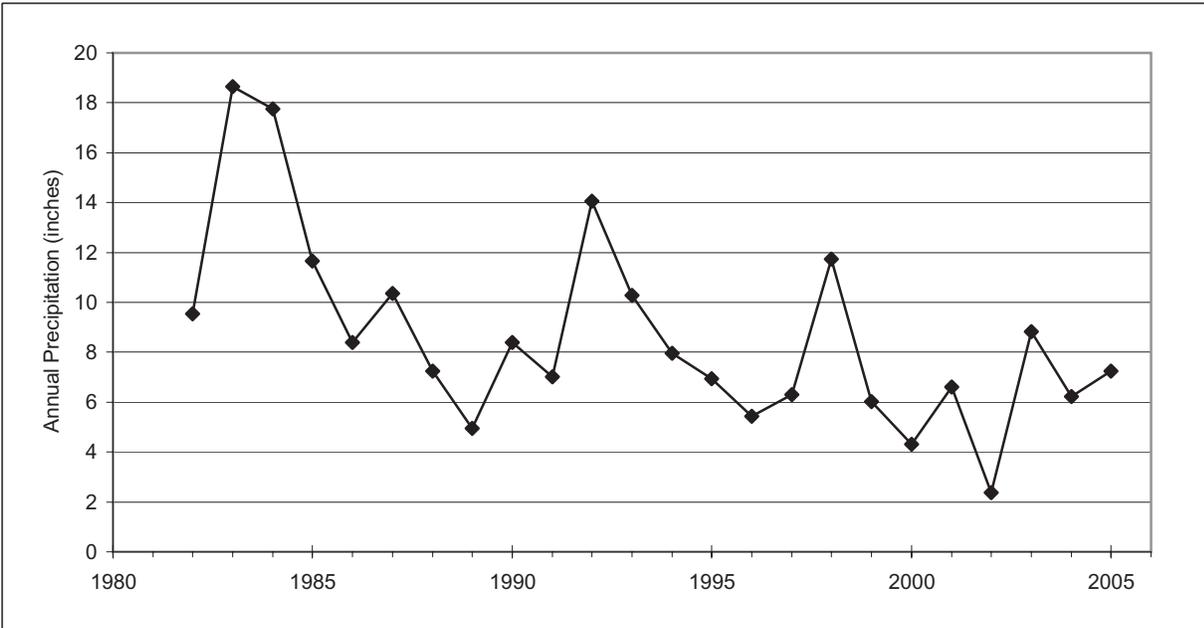


Figure C-6a. Annual precipitation at Growler Valley weather station (and rain gauge), 1982 to 2005.

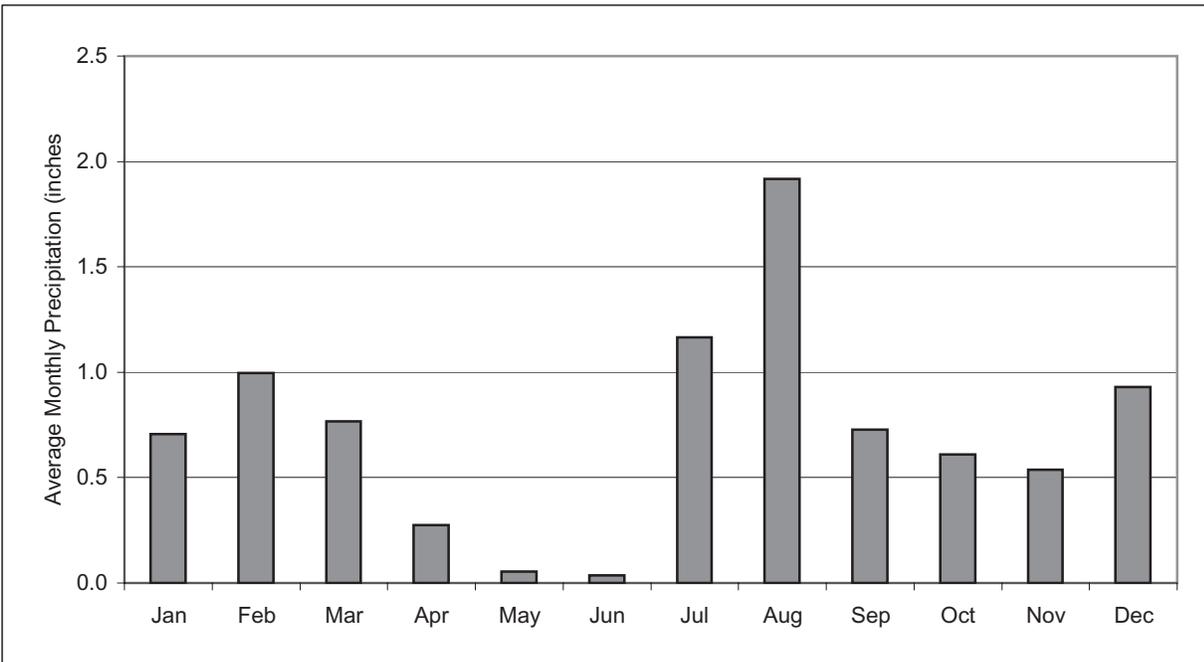


Figure C-6b. Average monthly precipitation at Growler Valley weather station (and rain gauge), 1982 to 2005.

Table C-7. Summary statistics for precipitation at Middle Bajada weather station, 1996 to 2005, Organ Pipe Cactus N.M. Average annual total is 8.51 inches (216.2mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.69	1.00	0.56	0.57	0.03	0.05	1.38	1.80	0.81	0.57	0.31	0.74
S.D.	0.99	1.05	0.82	0.78	0.08	0.11	1.12	0.96	1.05	0.69	0.32	1.13
Skew	1.98	0.83	1.66	1.94	3.15	3.00	1.08	-0.17	1.51	1.59	0.56	1.98
Max	3.04	2.89	2.43	2.50	0.24	0.37	3.76	3.38	3.23	1.92	0.84	3.54
Min	0.01	0.00	0.00	0.00	0.00	0.00	0.17	0.02	0.00	0.00	0.00	0.00
Years	9	9	10	10	10	10	10	10	10	10	10	10

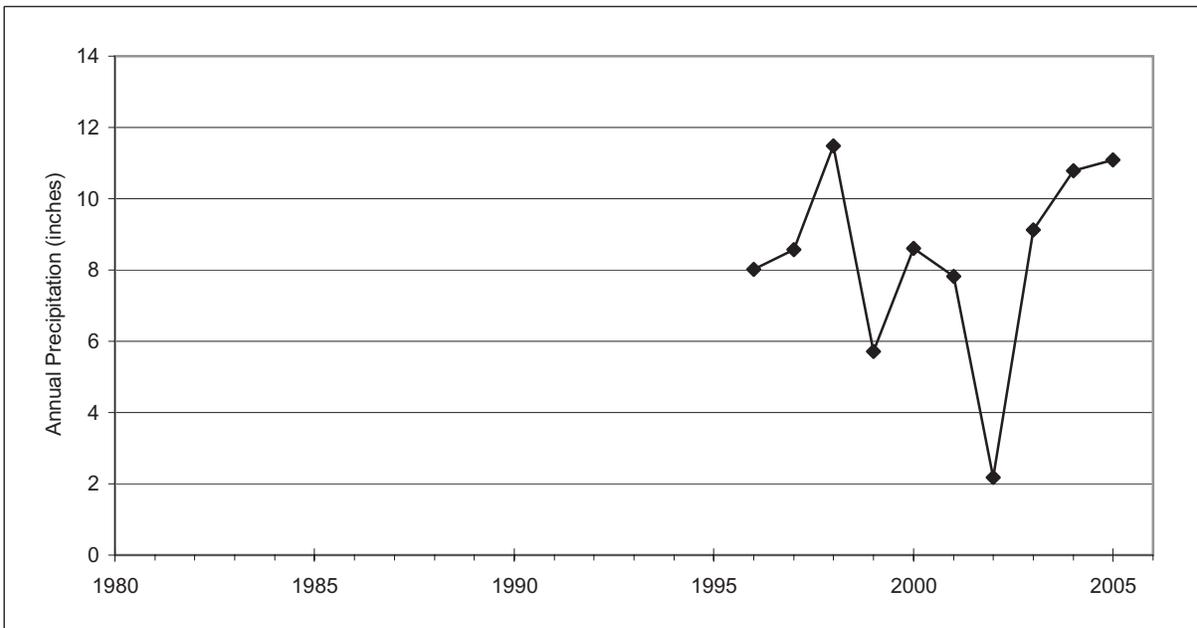


Figure C-7a. Annual precipitation at Middle Bajada weather station, 1996 to 2005.

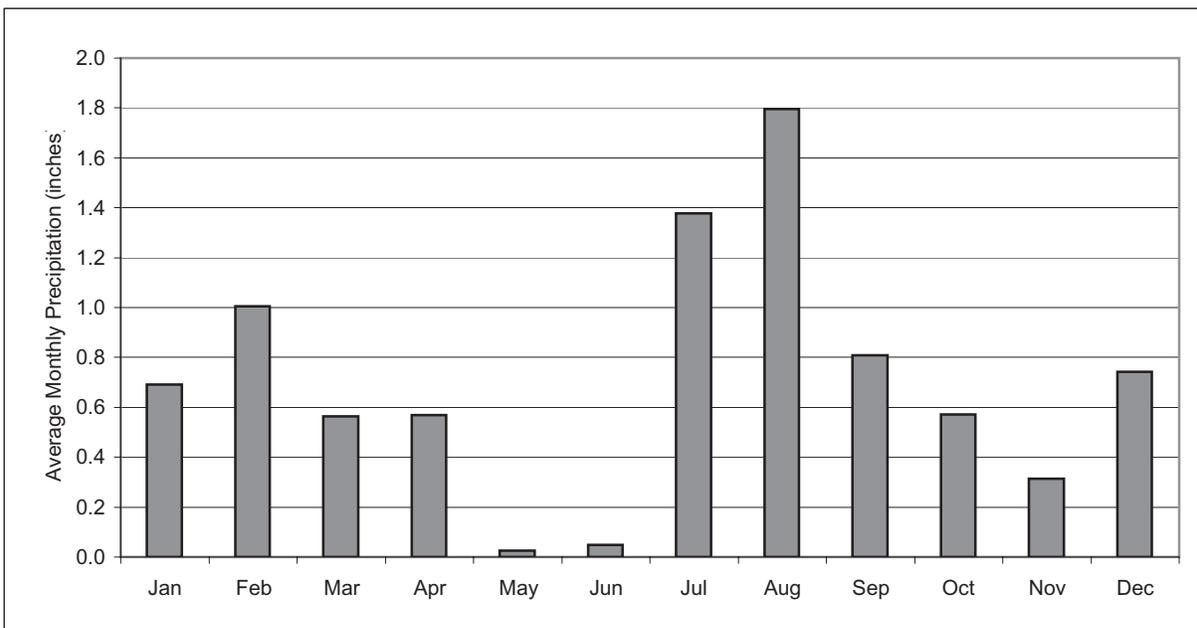


Figure C-7b. Average monthly precipitation at Middle Bajada weather station, 1996 to 2005.

Table C-8. Summary statistics for precipitation at Pozo Nuevo weather station (and rain gauge), 1992 to 2005, Organ Pipe Cactus N.M. Average annual total is 6.71 inches (170.4mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.56	1.04	0.48	0.26	0.04	0.03	0.44	1.31	0.93	0.37	0.37	0.86
S.D.	0.74	0.81	0.39	0.29	0.10	0.06	0.49	0.90	1.00	0.53	0.55	1.51
Skew	1.93	0.63	0.43	0.55	2.60	1.95	1.90	0.59	1.09	2.16	1.99	1.94
Max	2.59	2.84	1.19	0.71	0.33	0.18	1.80	3.26	3.26	1.90	1.93	4.69
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Years	13	13	13	13	13	13	13	13	13	14	14	14

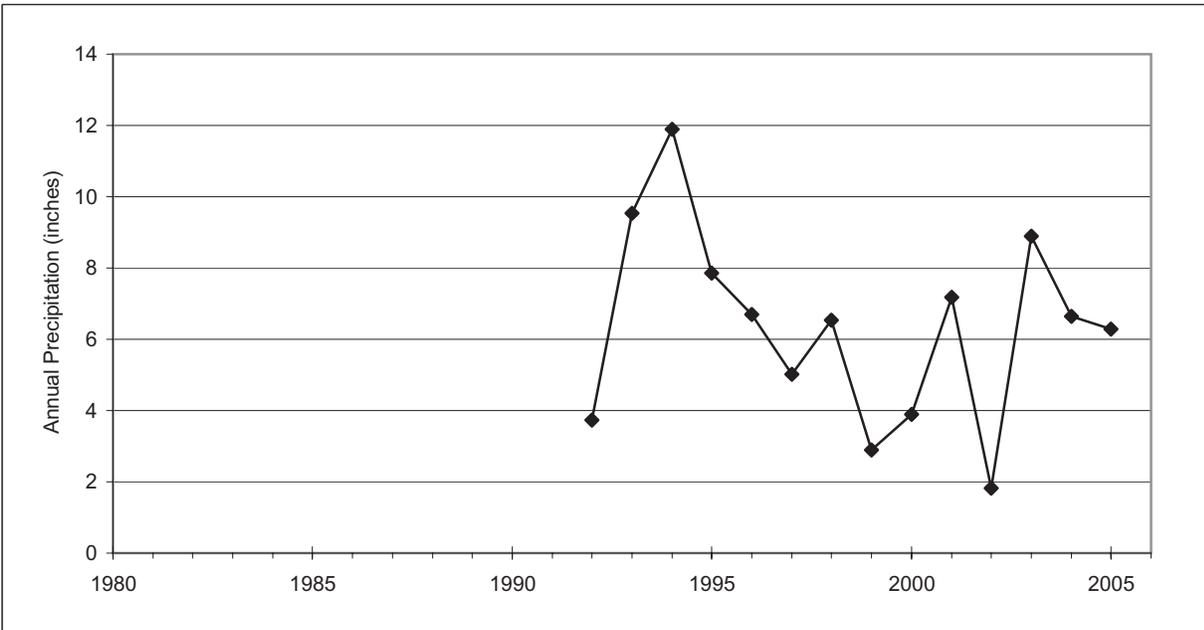


Figure C-8a. Annual precipitation at Pozo Nuevo weather station (and rain gauge), 1992 to 2005.

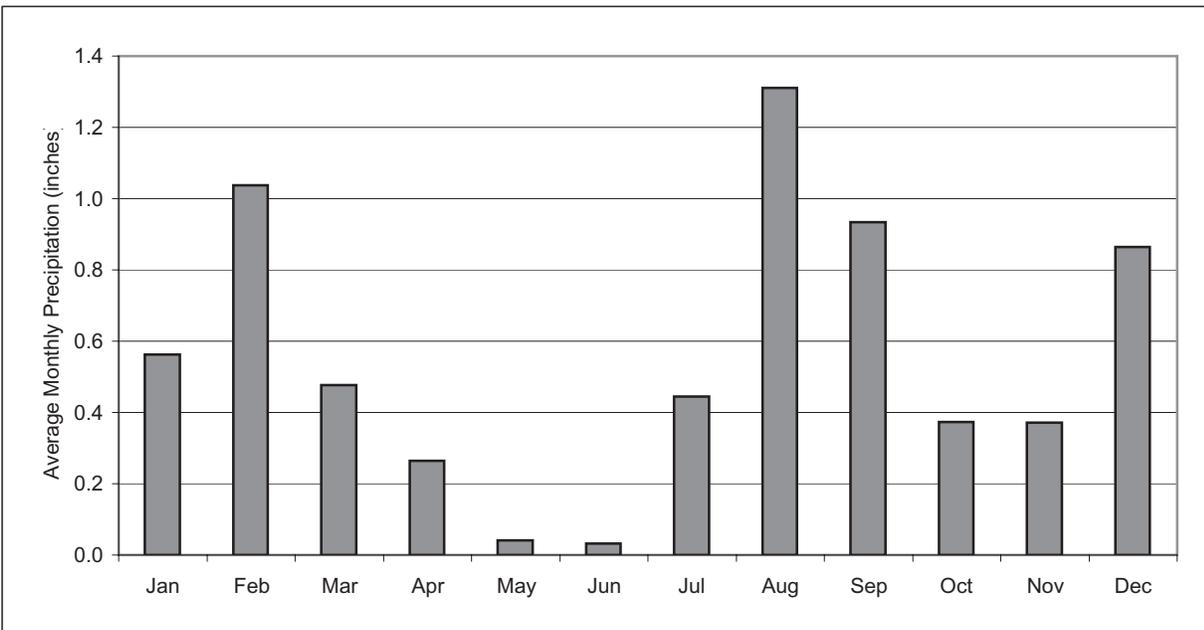


Figure C-8b. Average monthly precipitation at Pozo Nuevo weather station (and rain gauge), 1992 to 2005.

Table C-9. Summary statistics for precipitation at Salsola Site weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 8.67 inches (220.2mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.78	0.91	0.68	0.37	0.01	0.08	0.98	2.01	0.98	0.58	0.37	0.92
S.D.	0.84	0.96	0.86	0.72	0.03	0.25	0.66	1.17	1.23	0.78	0.44	1.37
Skew	1.51	0.92	1.31	3.20	2.97	3.79	0.22	0.04	1.74	1.93	1.14	1.56
Max	2.99	3.22	2.72	2.99	0.12	1.04	2.14	4.06	4.49	2.83	1.46	4.06
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
Years	18	18	18	18	18	18	18	18	18	18	18	18

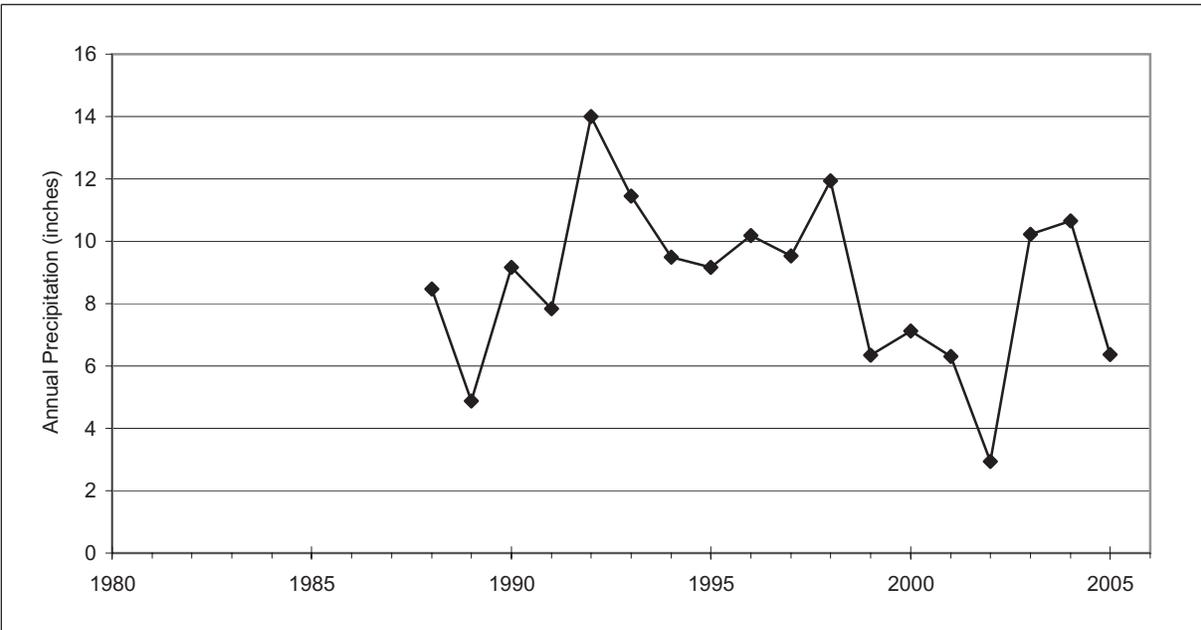


Figure C-9a. Annual precipitation at Salsola Site weather station, 1988 to 2005.

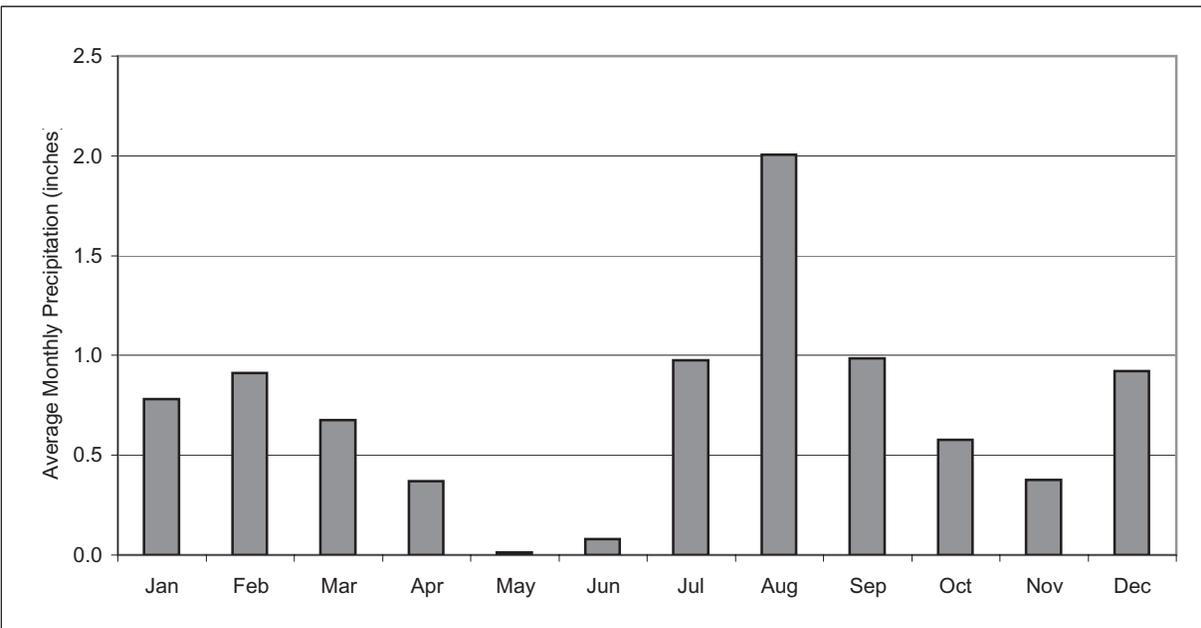


Figure C-9b. Average monthly precipitation at Salsola Site weather station, 1988 to 2005.

Table C-10. Summary statistics for precipitation at Senita Basin weather station, 1988 to 2005, Organ Pipe Cactus N.M. Average annual total is 9.02 inches (229.1mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.88	1.03	0.82	0.30	0.04	0.05	1.00	1.73	1.08	0.59	0.37	1.14
S.D.	0.92	0.95	0.86	0.46	0.10	0.15	1.26	1.07	1.42	0.72	0.56	1.42
Skew	1.16	0.69	1.73	2.05	2.81	3.99	2.17	0.61	1.86	1.58	2.79	1.23
Max	2.95	2.82	3.35	1.63	0.37	0.62	5.08	4.21	5.34	2.40	2.28	4.45
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Years	18	18	18	17	17	18	18	18	17	17	17	17

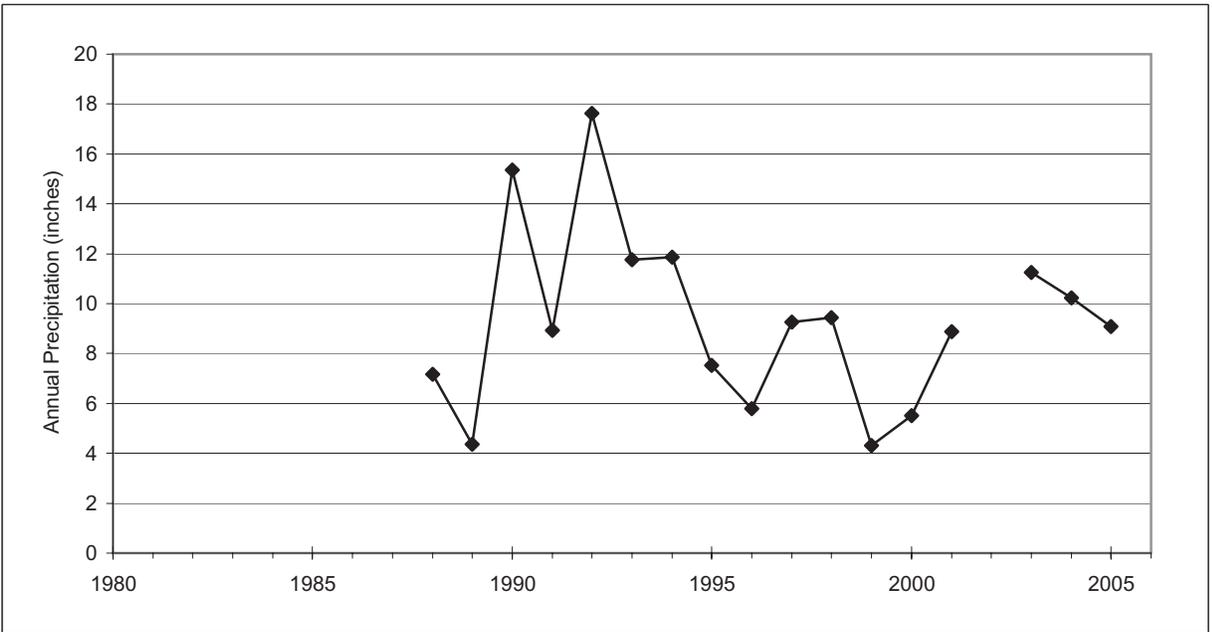


Figure C-10a. Annual precipitation at Senita Basin weather station, 1988 to 2005.

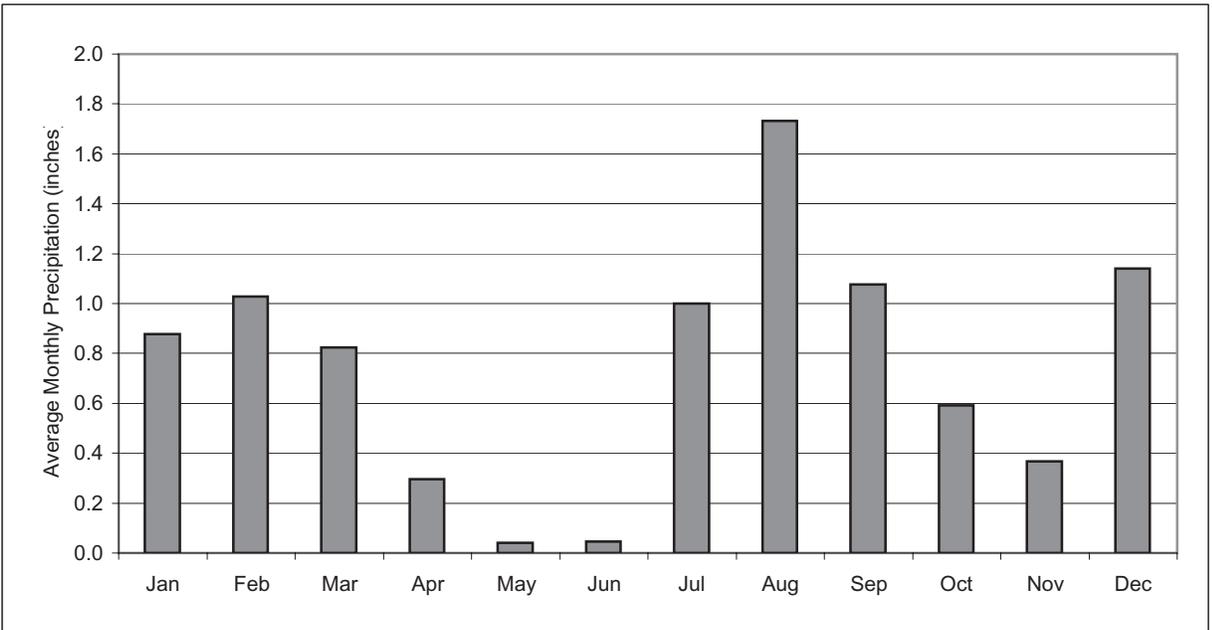


Figure C-10b. Average monthly precipitation at Senita Basin weather station, 1988 to 2005.

Table C-11. Summary statistics for precipitation at Valley Floor weather station, 1996 to 2005, Organ Pipe Cactus N.M. Average annual total is 6.99 inches (177.6mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.49	0.86	0.53	0.40	0.00	0.12	1.01	1.65	0.79	0.46	0.25	0.42
S.D.	0.57	0.94	0.67	0.53	0.01	0.23	0.75	1.42	1.02	0.75	0.34	0.58
Skew	1.30	0.93	1.15	1.56	3.16	2.12	0.28	0.84	1.94	1.64	1.40	1.81
Max	1.61	2.67	1.71	1.60	0.02	0.69	2.32	4.58	3.34	2.01	0.99	1.82
Min	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
Years	9	9	10	10	10	10	10	10	10	10	10	10

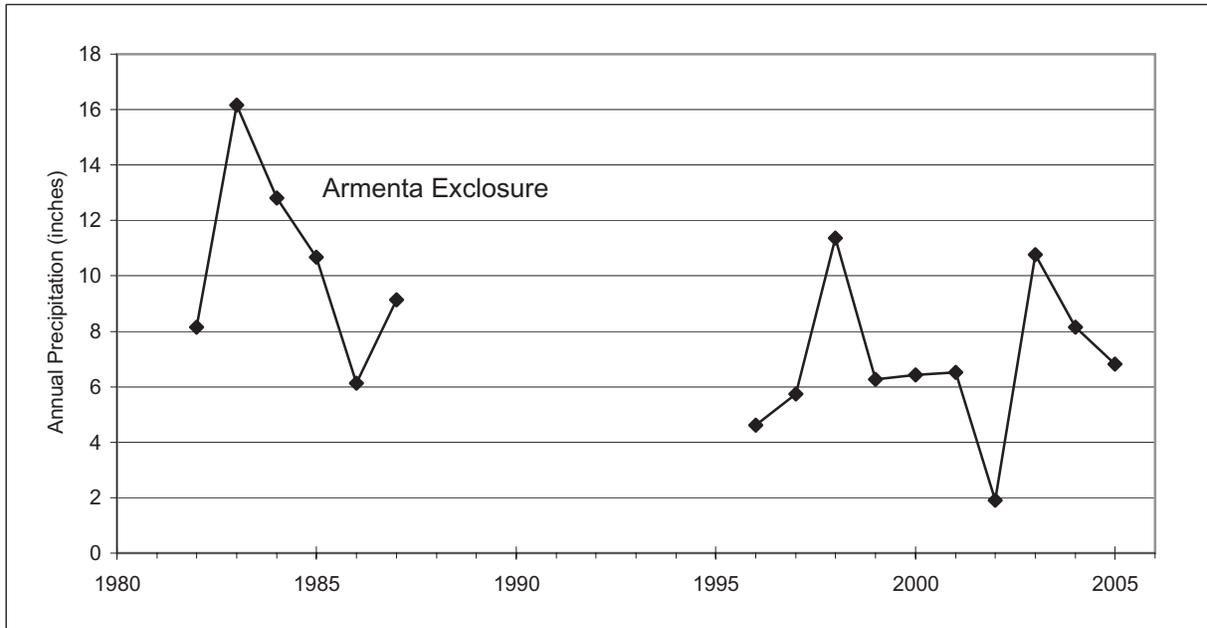


Figure C-11a. Annual precipitation at Valley Floor weather station, 1996 to 2005.

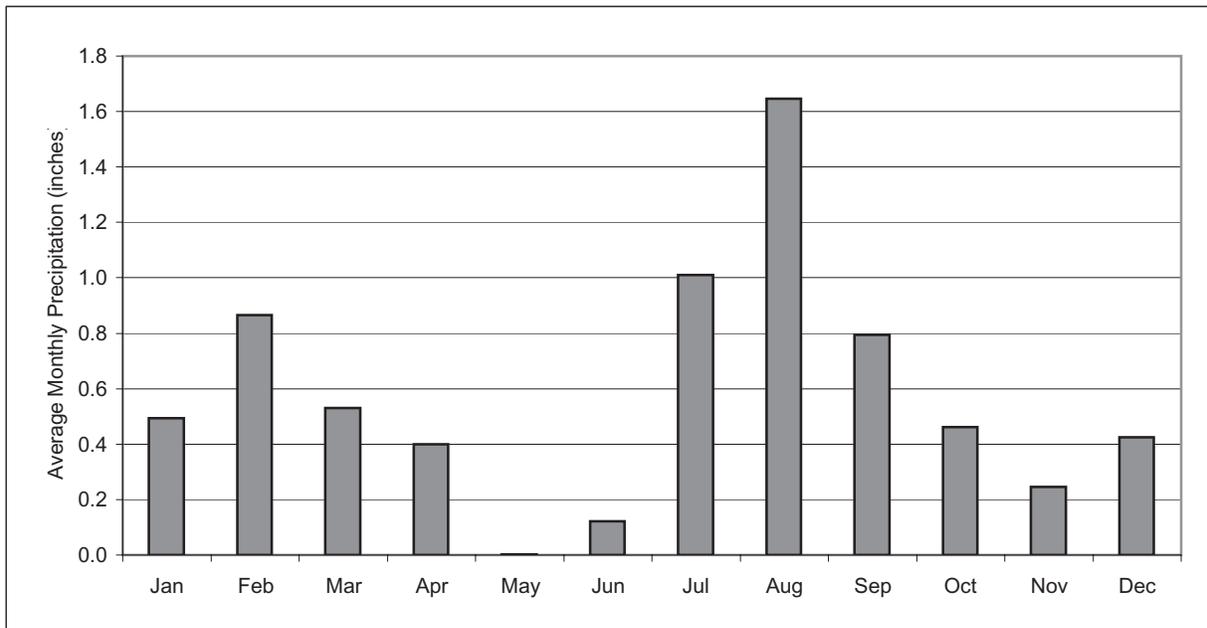


Figure C-11b. Average monthly precipitation at Valley Floor weather station, 1996 to 2005.

Table C-12. Summary statistics for precipitation at Alamo Canyon rain gauge (near campground), 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 12.62 inches (320.6mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	1.07	1.19	1.04	0.46	0.11	0.05	1.95	2.77	1.08	0.81	0.68	1.41
S.D.	1.12	1.02	1.20	0.69	0.17	0.10	1.48	1.49	1.35	0.80	0.78	1.57
Skew	1.48	0.51	1.18	2.46	1.52	2.61	1.26	0.46	2.41	1.31	1.61	1.13
Max	4.26	3.52	3.50	2.99	0.53	0.35	6.28	6.95	5.67	2.98	2.91	5.35
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	23	24	24	24

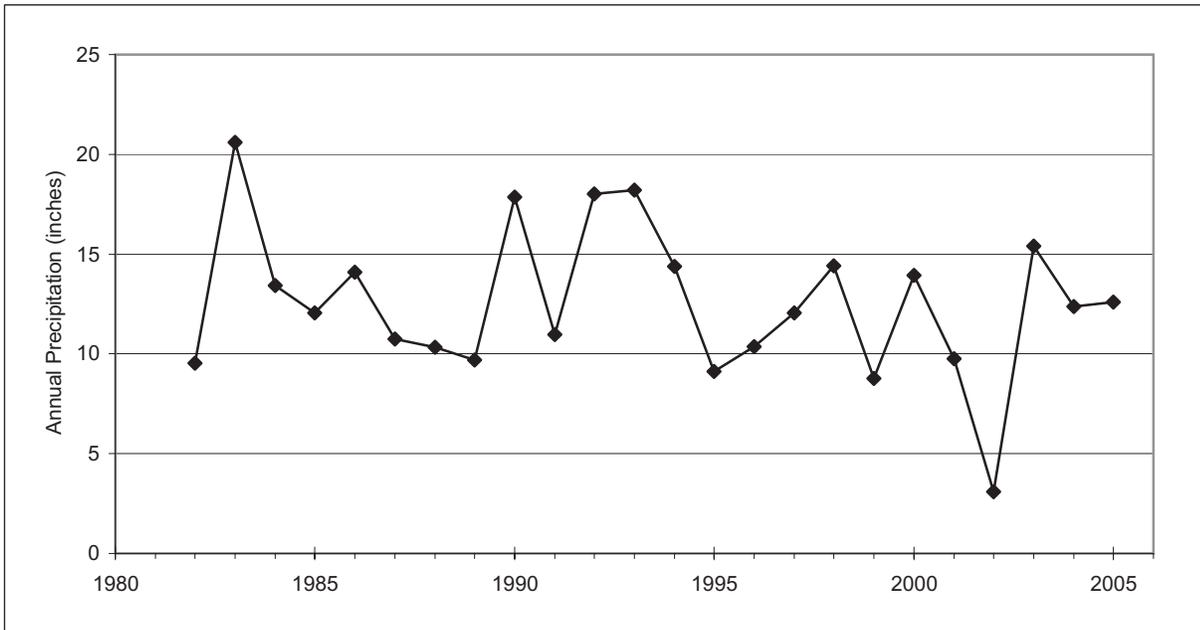


Figure C-12a. Annual precipitation at Alamo Canyon rain gauge (near campground), 1982 to 2005.

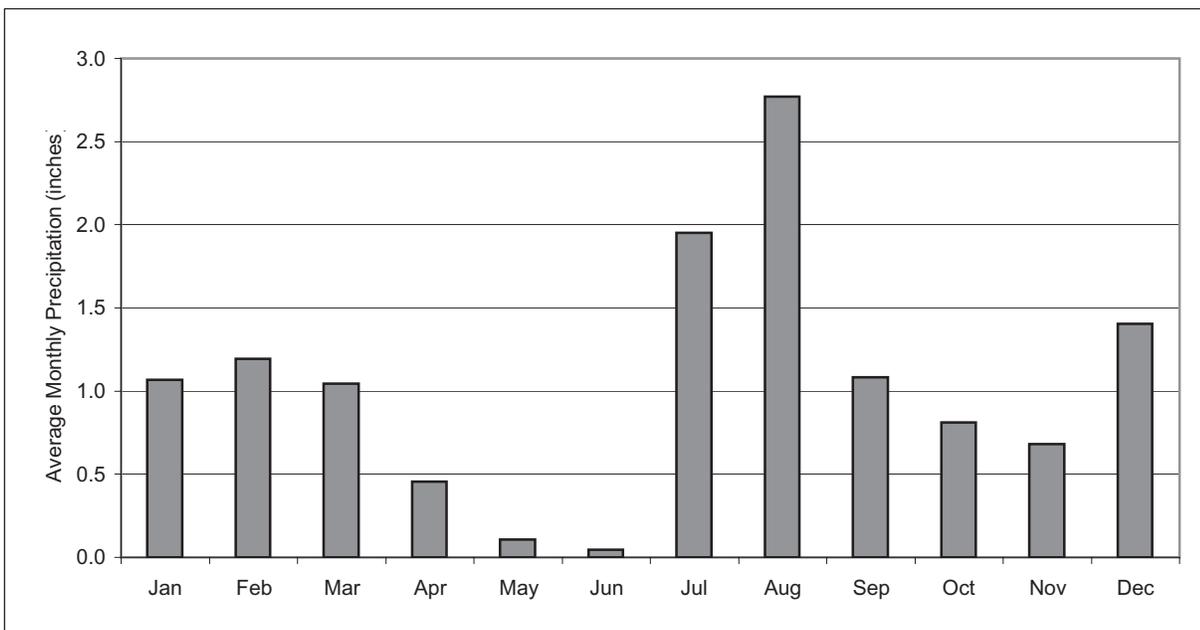


Figure C-12b. Average monthly precipitation at Alamo Canyon rain gauge (near campground), 1982 to 2005.

Table C-13. Summary statistics for precipitation at Arch Canyon rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 14.26 inches (362.2mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	1.22	1.33	1.31	0.50	0.15	0.05	2.02	3.05	1.40	0.93	0.78	1.52
S.D.	1.56	1.15	1.48	0.71	0.24	0.14	1.27	1.58	1.53	0.87	0.96	1.73
Skew	2.57	0.65	1.09	1.99	2.15	4.42	0.53	0.33	1.30	0.94	1.63	1.11
Max	7.01	4.00	4.49	2.89	0.99	0.68	5.11	7.04	5.63	2.85	3.20	5.58
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.11	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	24	24	24	24

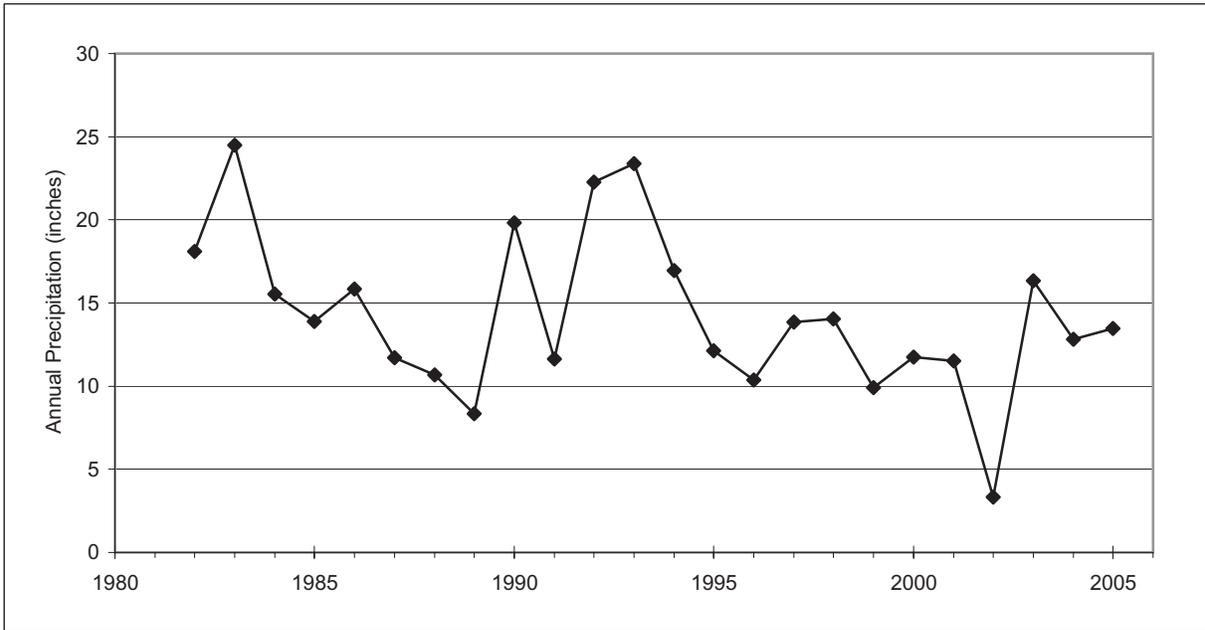


Table C-13a. Annual precipitation at Arch Canyon rain gauge, 1982 to 2005.

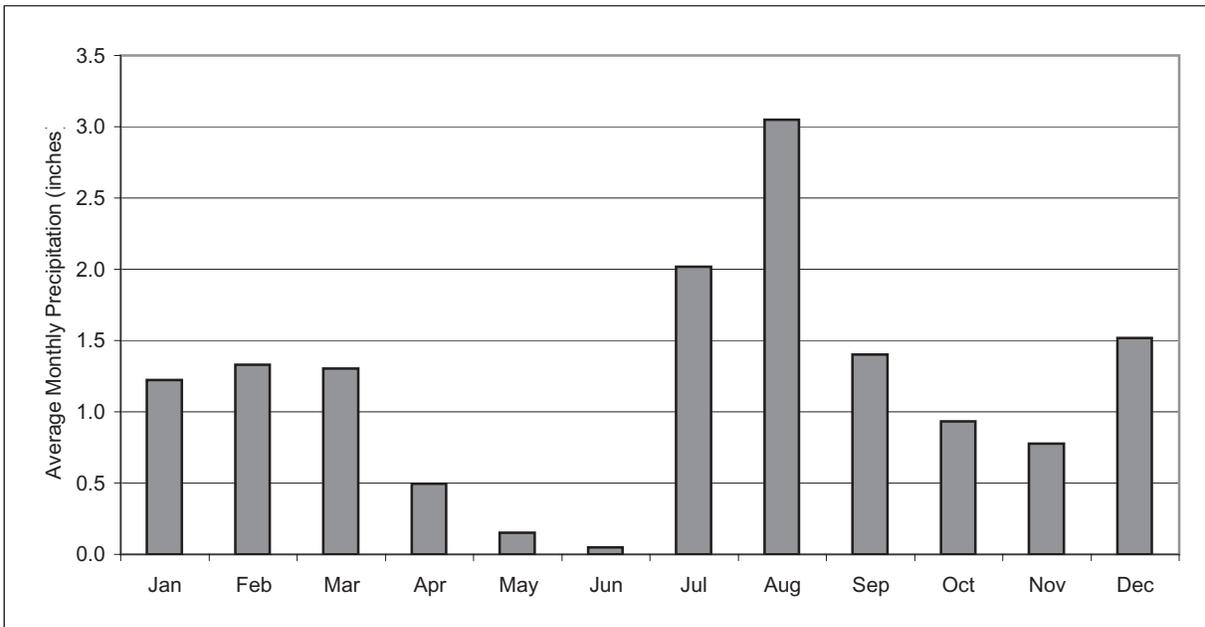


Table C-13b. Average monthly precipitation at Arch Canyon rain gauge, 1982 to 2005.

Table C-14. Summary statistics for precipitation at Bates Well rain gauge (two locations), 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 9.27 inches (235.5mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.59	1.20	0.62	0.38	0.16	0.02	1.63	1.85	0.67	0.67	0.63	0.85
S.D.	0.62	0.98	0.69	0.49	0.33	0.03	1.52	1.21	1.15	0.91	0.87	0.93
Skew	1.41	0.28	1.30	1.42	2.74	2.23	1.11	-0.34	2.80	1.02	2.31	1.12
Max	1.84	2.91	2.15	1.44	1.13	0.10	4.50	3.43	4.10	2.34	3.15	2.66
Min	0.02	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00
Years	12	13	13	12	12	11	13	13	12	12	13	13

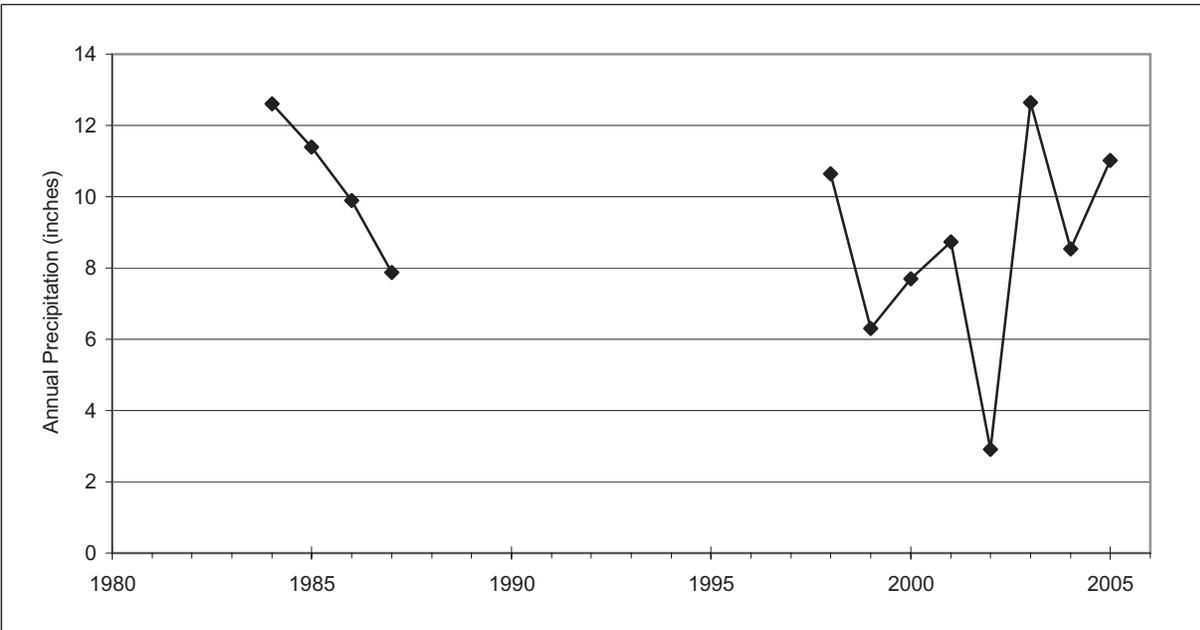


Figure C-14a. Annual precipitation at Bates Well rain gauge (two locations), 1982 to 2005.

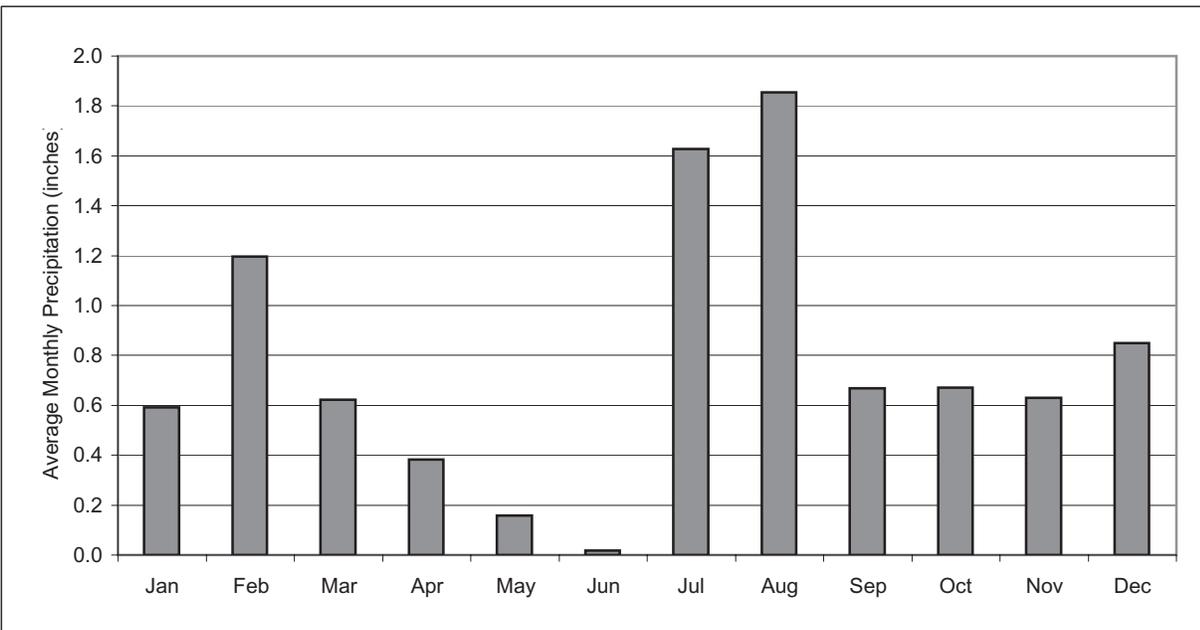


Figure C-14b. Average monthly precipitation at Bates Well rain gauge (two locations), 1982 to 2005.

Table C-15. Summary statistics for precipitation at Dos Lomitas rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 9.08 inches (230.6mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.75	0.88	0.81	0.29	0.07	0.11	1.06	1.79	0.97	0.76	0.54	1.04
S.D.	0.76	0.87	1.01	0.59	0.14	0.37	0.87	1.02	1.14	0.91	0.69	1.19
Skew	1.37	0.99	1.59	3.48	2.70	4.57	0.46	0.48	1.48	1.27	1.82	1.18
Max	2.66	3.22	3.29	2.75	0.55	1.83	2.98	4.46	3.80	2.90	2.67	3.93
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	24	23	24	24

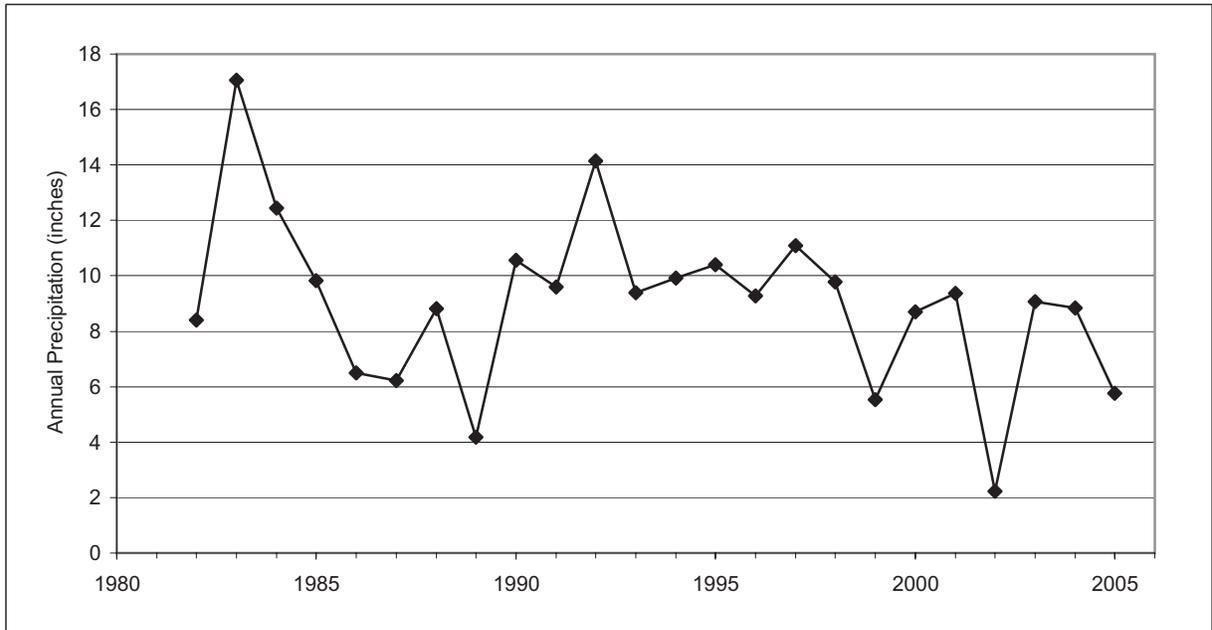


Figure C-15a. Annual precipitation at Dos Lomitas rain gauge, 1982 to 2005.

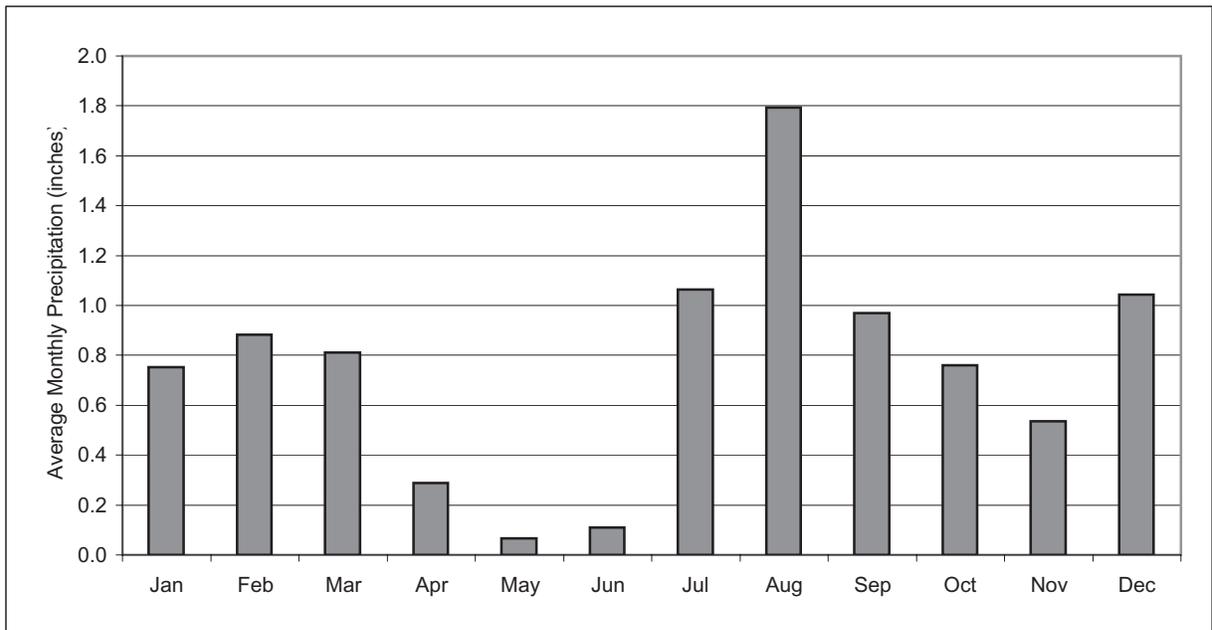


Figure C-15b. Average monthly precipitation at Dos Lomitas rain gauge, 1982 to 2005.

Table C-16. Summary statistics for precipitation at Dowling Ranch rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 9.30 inches (236.2mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.86	0.86	0.82	0.26	0.05	0.08	1.39	1.84	0.88	0.57	0.49	1.18
S.D.	0.97	0.74	0.86	0.44	0.10	0.21	1.25	1.37	1.12	0.75	0.63	1.36
Skew	1.94	0.89	1.48	2.36	2.48	3.15	1.09	0.76	1.73	1.77	1.99	1.16
Max	4.09	2.95	3.37	1.79	0.40	0.84	4.86	5.29	3.66	2.76	2.33	4.33
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	24	24	24	23

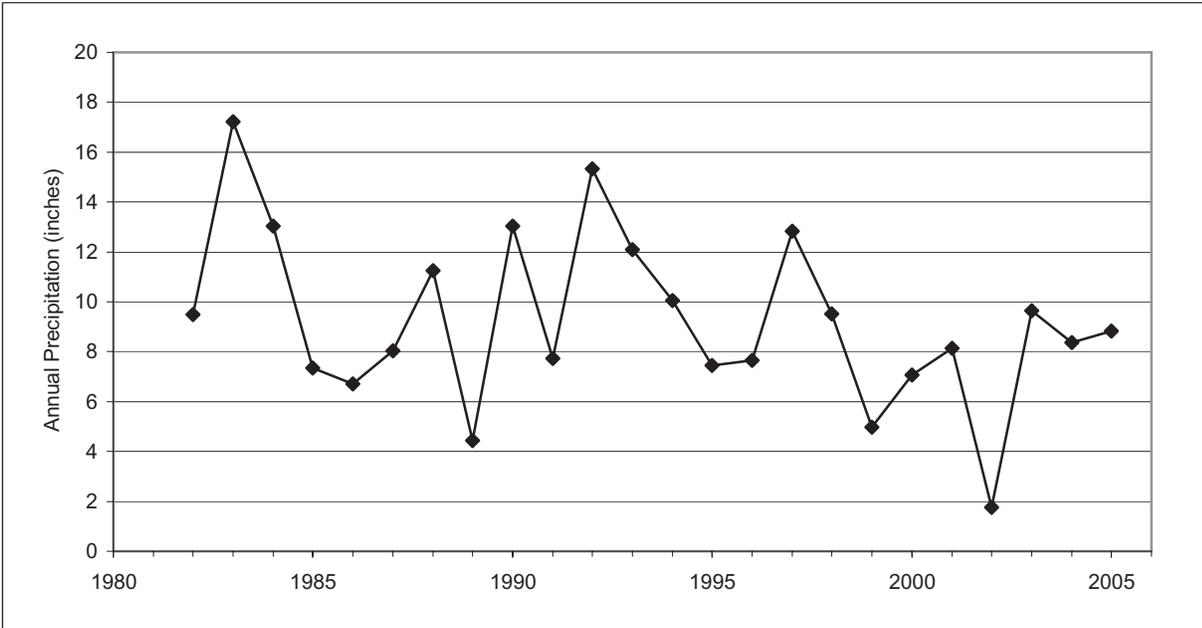


Figure C-16a. Annual precipitation at Dowling Ranch rain gauge, 1982 to 2005.

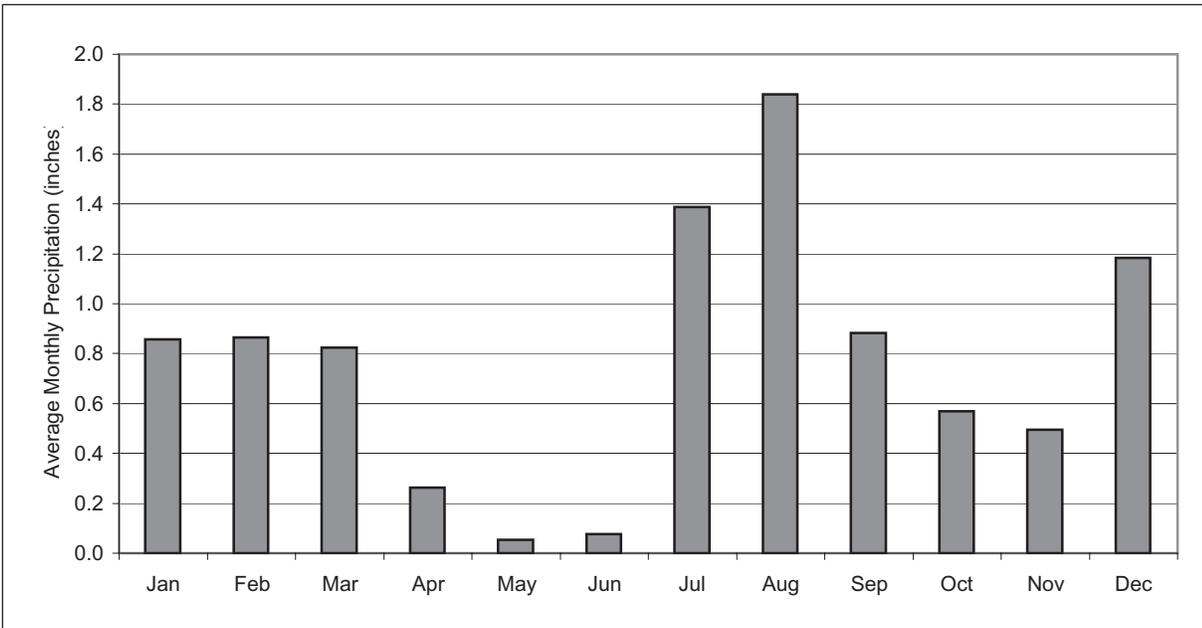


Figure C-16b. Average monthly precipitation at Dowling Ranch rain gauge, 1982 to 2005.

Table C-17. Summary statistics for precipitation at Dripping Springs rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 9.90 inches (251.5mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.87	1.08	0.89	0.35	0.07	0.04	1.23	2.07	0.87	0.59	0.51	1.34
S.D.	0.91	1.04	0.92	0.49	0.13	0.14	1.13	1.21	0.91	0.80	0.54	1.39
Skew	1.26	0.85	1.12	1.41	2.49	4.46	0.73	0.03	1.63	1.69	1.09	0.90
Max	3.21	3.80	2.99	1.75	0.54	0.66	3.69	4.30	3.70	2.84	1.72	4.80
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	24	24	24	24

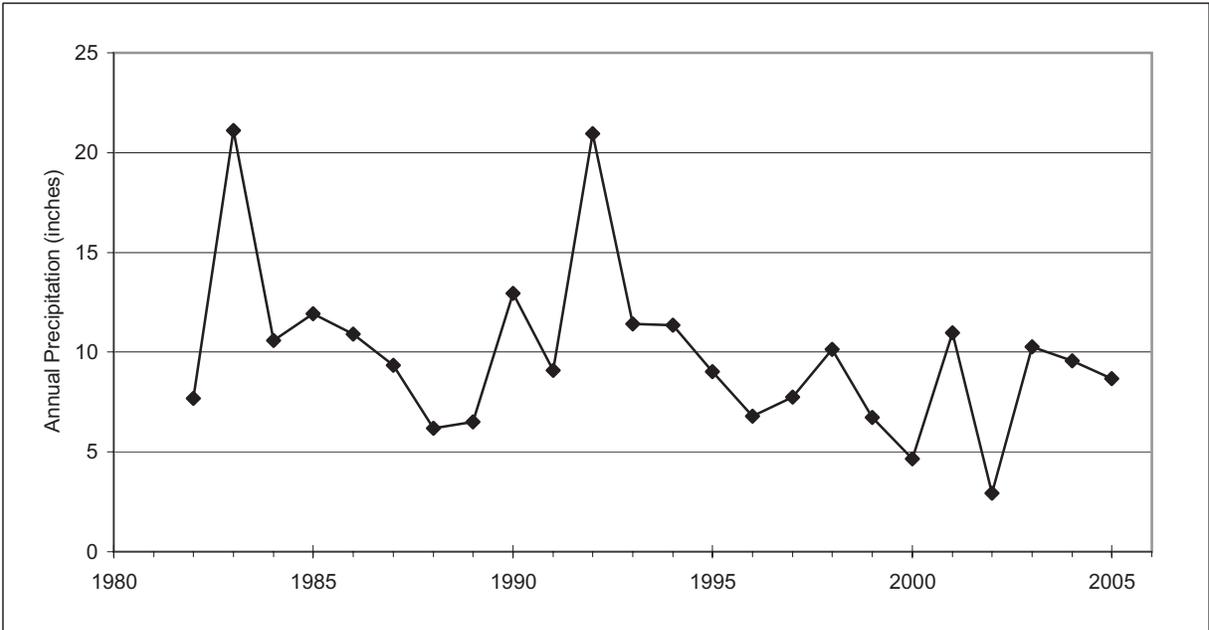


Figure C-17a. Annual precipitation at Dripping Springs rain gauge, 1982 to 2005.

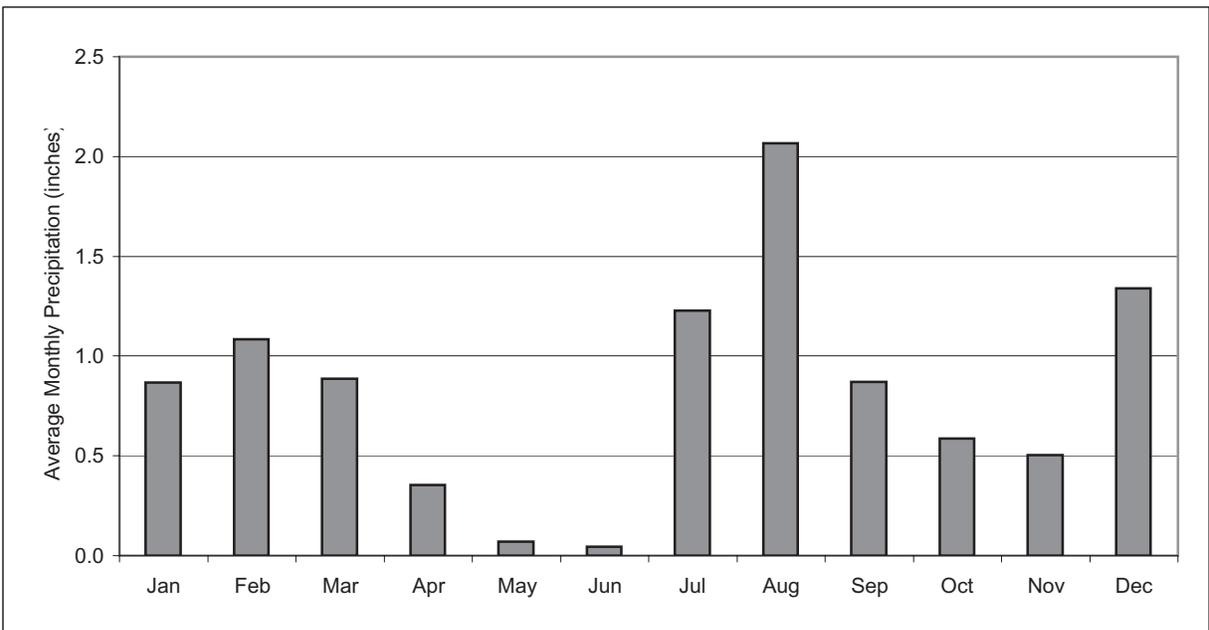


Figure C-17b. Average monthly precipitation at Dripping Springs rain gauge, 1982 to 2005.

Table C-18. Summary statistics for precipitation at Mile Post 69.4 rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 11.11 inches (282.2mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.95	1.16	0.93	0.40	0.10	0.03	1.42	2.43	1.07	0.69	0.60	1.23
S.D.	1.02	1.00	0.98	0.66	0.17	0.07	0.96	1.43	1.08	0.85	0.68	1.39
Skew	1.26	0.49	1.14	3.03	1.86	3.27	0.50	0.46	1.27	1.52	1.43	1.21
Max	3.65	3.39	3.04	3.02	0.58	0.30	3.35	5.51	3.91	2.89	2.40	4.69
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00	0.00
Years	24	24	24	24	24	24	24	24	24	24	24	24

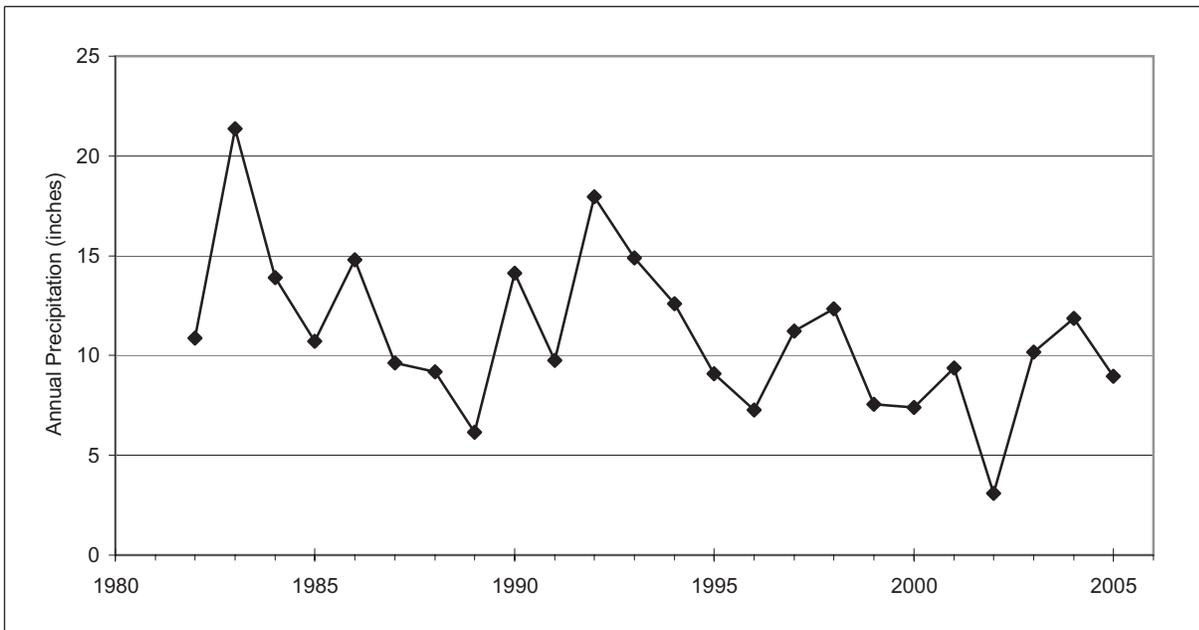


Figure C-18a. Annual precipitation at Mile Post 69.4 rain gauge, 1982 to 2005.

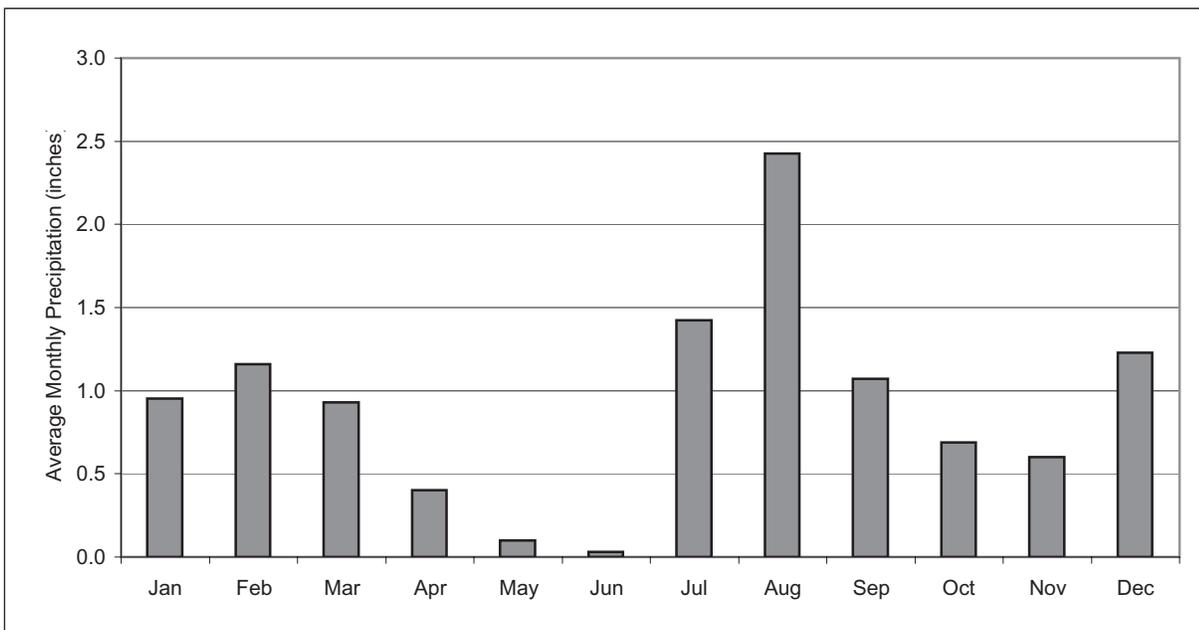


Figure C-18b. Average monthly precipitation at Mile Post 69.4 rain gauge, 1982 to 2005.

Table C-19. Summary statistics for precipitation at Quitobaquito rain gauge, 1982 to 2005, Organ Pipe Cactus N.M. Average annual total is 8.81 inches (223.8mm).

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mean	0.77	0.94	0.85	0.33	0.10	0.03	0.95	1.86	0.83	0.58	0.45	1.12
S.D.	0.81	0.81	0.82	0.41	0.19	0.10	1.15	1.44	1.15	0.81	0.55	1.22
Skew	1.21	0.64	1.09	0.91	1.70	4.66	2.40	0.51	2.05	1.76	1.72	1.04
Max	2.75	2.65	2.89	1.22	0.57	0.48	5.23	5.14	4.15	2.90	2.12	4.37
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
Years	24	23	24	24	24	24	24	24	24	24	24	24

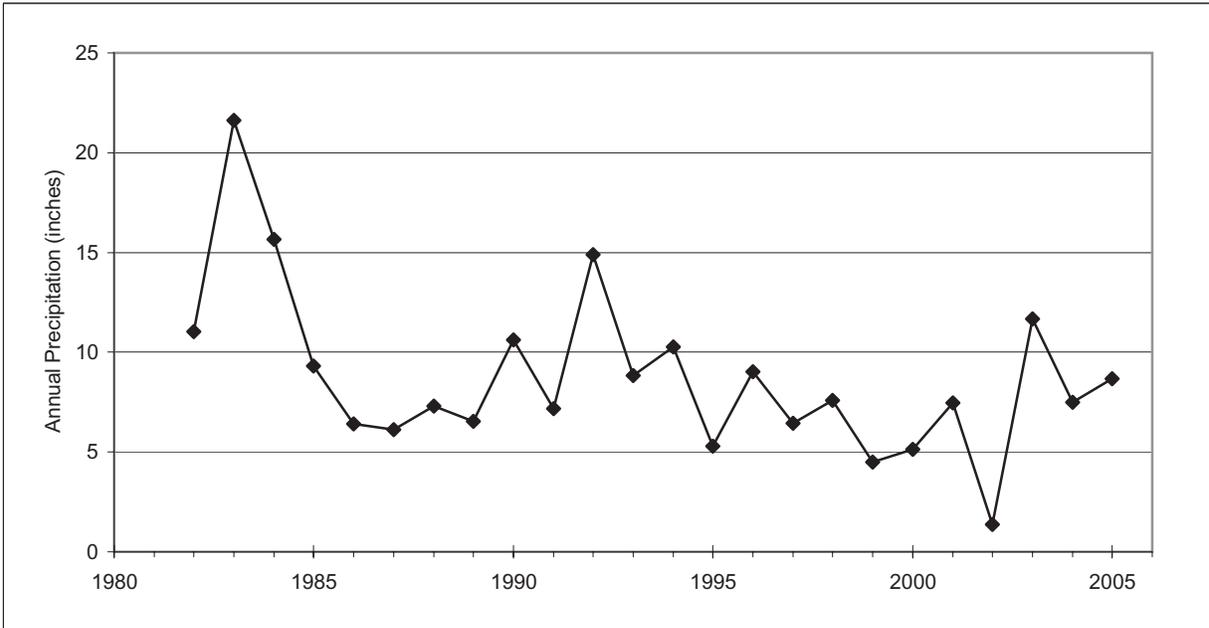


Figure C-19a. Annual precipitation at Quitobaquito rain gauge, 1982 to 2005.

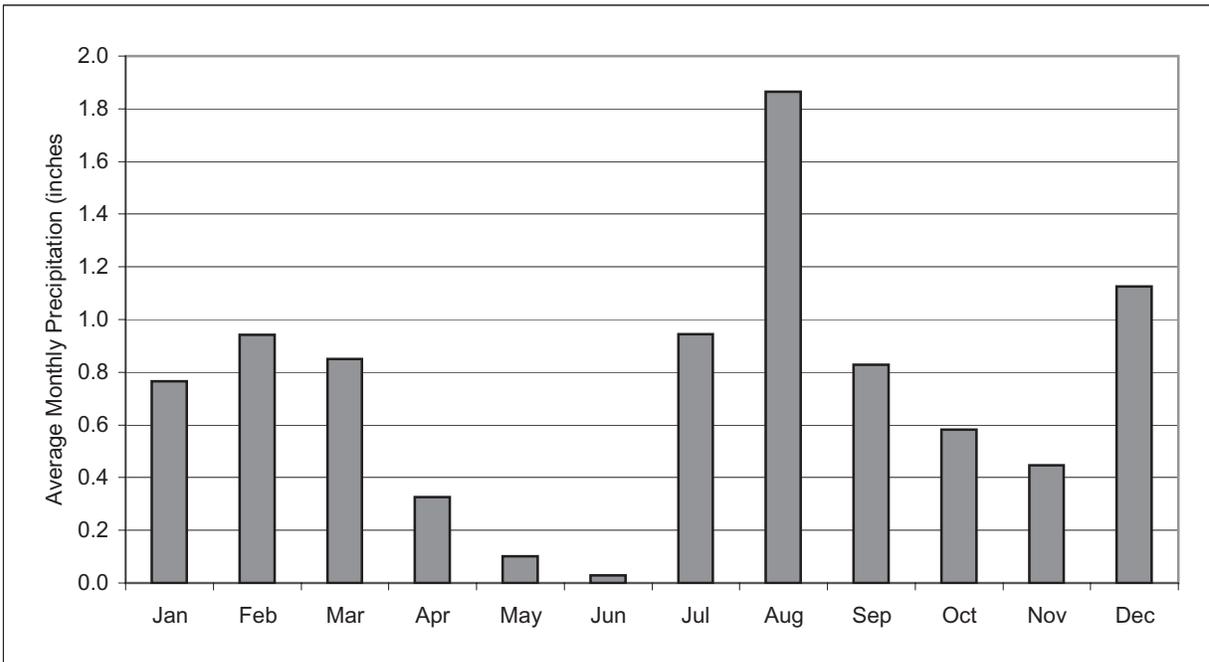


Figure C-19b. Average monthly precipitation at Quitobaquito rain gauge, 1982 to 2005.