

Prepared for: **Walnut Creek**  
 Grid: **17764**

**Monthly Rainfall (Inches)**

YEAR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2018	Rainfall	0.53	0.14	0.28	0.00	0.01	0.00	1.82	1.30	0.33	0.80	-1.00	-1.00
The year only reflects NOAA precipitation data through 10/29/2018													
2017	Rainfall	1.15	0.59	0.27	0.00	0.08	0.00	0.39	0.48	0.78	0.00	0.00	0.00
2016	Rainfall	0.87	0.16	0.07	0.72	0.36	0.07	0.73	1.23	0.51	0.31	0.45	1.92
2015	Rainfall	0.82	0.38	1.52	0.22	0.09	0.61	1.75	0.75	0.95	1.52	0.18	0.05
2014	Rainfall	0.00	0.09	1.13	0.15	0.00	0.01	1.00	2.39	1.80	0.57	0.00	0.88
2013	Rainfall	0.77	0.42	0.27	0.02	0.06	0.00	1.04	2.78	1.40	0.07	0.54	0.01
2012	Rainfall	0.01	0.23	0.44	0.69	0.00	0.00	1.44	1.42	0.28	0.53	0.00	1.81
2011	Rainfall	0.00	2.70	0.50	0.40	0.27	0.00	0.73	0.27	0.96	0.37	0.58	0.86
2010	Rainfall	3.54	0.87	0.51	0.08	0.00	0.01	0.37	0.51	0.05	1.38	0.07	1.69
2009	Rainfall	0.27	1.72	0.01	0.05	0.06	0.04	0.82	0.48	0.34	0.00	0.03	1.08
2008	Rainfall	2.21	0.85	0.03	0.00	0.41	0.00	2.07	1.68	0.35	0.02	0.84	2.51
2007	Rainfall	0.17	0.35	0.20	0.01	0.00	0.00	1.34	1.11	0.77	0.07	0.15	1.88
2006	Rainfall	0.01	0.09	0.92	0.25	0.01	0.18	2.47	0.54	1.31	0.68	0.00	0.01
2005	Rainfall	3.34	5.51	0.59	0.37	0.00	0.16	0.79	3.64	0.00	1.48	0.16	0.00
2004	Rainfall	0.08	1.69	0.07	1.83	0.00	0.00	0.50	1.04	0.50	5.12	3.20	1.64
2003	Rainfall	0.42	3.19	1.41	0.44	0.01	0.00	0.32	1.49	1.20	0.05	0.46	0.42
2002	Rainfall	0.00	0.00	0.04	0.00	0.00	0.00	0.35	0.00	1.25	0.40	0.73	0.43
2001	Rainfall	1.39	1.27	0.79	0.64	0.00	0.00	0.98	0.61	0.22	0.25	0.22	0.27
2000	Rainfall	0.00	0.62	0.49	0.03	0.00	0.35	0.00	1.69	0.01	1.30	0.05	0.00
1999	Rainfall	0.42	0.91	0.04	1.30	0.08	0.02	3.40	0.31	0.83	0.00	0.00	0.00
1998	Rainfall	0.57	4.61	1.20	0.47	0.20	0.00	0.83	1.15	1.23	0.03	0.71	0.13

**Rainfall Summary stats: 2017-1948**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hist Avg	1.00	0.96	0.92	0.39	0.15	0.10	0.89	1.16	0.68	0.60	0.54	0.78
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	4.92	5.51	4.92	3.77	1.04	1.14	4.22	4.33	4.58	5.12	3.20	3.29
Variance *	1.25	1.19	1.13	0.37	0.05	0.04	0.74	1.17	0.66	0.72	0.42	0.74
Std. dev. **	1.12	1.09	1.06	0.61	0.23	0.21	0.86	1.08	0.81	0.85	0.65	0.86
Coef. Var. <sup>1</sup>	1.12	1.14	1.15	1.56	1.48	2.03	0.97	0.93	1.19	1.42	1.21	1.09

\* A high variance means the data is spread out from the average - it has a lot of variation; mathematically, it is the average of the squared differences from the mean

\*\* Std. dev. (standard deviation) is the square root of the variance; taking the square root makes it be in the same units as the precipitation data (inches)

<sup>1</sup> Coef. Var. - Coefficient of variation - standard deviation divided by the average - this can be helpful in comparing different intervals on an apples-apples basis where the min. and max precipitation ranges vary a lot.

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**Monthly Rainfall (Inches)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
2018	Rainfall	0.79	0.31	0.82	0.00	0.03	0.00	3.97	2.34	0.50	1.23	-1.00	-1.00
The year only reflects NOAA precipitation data through 10/29/2018													
2017	Rainfall	2.15	1.72	0.27	0.01	0.35	0.00	1.61	0.93	1.72	0.00	0.00	0.00
2016	Rainfall	1.16	0.27	0.22	1.00	0.85	0.30	1.83	2.94	1.30	1.02	0.57	2.40
2015	Rainfall	1.31	0.48	1.88	0.35	0.22	0.85	1.63	1.12	1.45	1.52	0.22	0.11
2014	Rainfall	0.00	0.08	1.69	0.23	0.00	0.00	1.57	3.67	3.28	0.50	0.00	1.29
2013	Rainfall	1.20	0.22	0.18	0.06	0.27	0.02	1.84	3.71	2.53	0.16	1.10	0.01
2012	Rainfall	0.01	0.32	0.61	0.67	0.00	0.00	2.33	2.54	0.68	0.52	0.00	1.50
2011	Rainfall	0.00	2.60	0.41	0.61	0.28	0.00	1.09	0.66	1.50	0.71	0.57	1.32
2010	Rainfall	4.15	0.86	0.72	0.15	0.00	0.03	0.88	1.34	0.07	1.82	0.18	2.98
2009	Rainfall	0.21	1.33	0.03	0.16	0.15	0.08	1.43	0.98	0.18	0.00	0.02	1.60
2008	Rainfall	2.64	1.19	0.02	0.00	0.63	0.00	2.56	2.31	0.31	0.03	1.14	2.73
2007	Rainfall	0.23	0.56	0.58	0.00	0.00	0.00	2.36	2.36	1.31	0.16	0.32	2.49
2006	Rainfall	0.00	0.07	1.39	0.65	0.02	0.33	4.58	1.46	2.07	0.88	0.00	0.03
2005	Rainfall	3.81	5.72	0.63	0.56	0.00	0.14	1.30	4.36	0.00	2.01	0.18	0.00
2004	Rainfall	0.10	1.81	0.07	2.15	0.00	0.01	0.66	1.63	0.97	6.03	4.68	1.67
2003	Rainfall	0.44	2.62	1.71	0.42	0.05	0.00	0.93	3.09	0.90	0.00	0.62	0.46
2002	Rainfall	0.00	0.00	0.05	0.00	0.00	0.00	0.50	0.00	1.51	0.55	0.75	0.55
2001	Rainfall	1.35	1.15	0.74	0.59	0.00	0.00	0.64	1.54	0.26	0.33	0.56	0.37
2000	Rainfall	0.01	0.45	0.47	0.00	0.00	0.41	0.02	1.83	0.02	1.79	0.07	0.02
1999	Rainfall	0.37	0.85	0.18	0.96	0.04	0.18	2.96	0.39	1.10	0.00	0.00	0.00
1998	Rainfall	0.74	3.86	1.08	0.54	0.26	0.00	1.53	1.79	1.10	0.30	1.05	0.09

**Rainfall Summary stats: 2017-1948**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hist Avg	1.18	1.08	1.05	0.47	0.19	0.14	1.16	1.59	0.88	0.73	0.68	0.94
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	5.24	5.72	4.69	4.03	0.85	1.35	4.58	5.19	4.37	6.03	4.68	3.53
Variance *	1.64	1.33	1.36	0.43	0.05	0.07	0.86	1.41	0.80	0.92	0.65	1.04
Std. dev. **	1.28	1.15	1.17	0.66	0.23	0.26	0.93	1.19	0.89	0.96	0.80	1.02
Coef. Var. <sup>1</sup>	1.08	1.07	1.11	1.40	1.26	1.83	0.80	0.75	1.01	1.32	1.19	1.08

\* A high variance means the data is spread out from the average - it has a lot of variation; mathematically, it is the average of the squared differences from the mean

\*\* Std. dev. (standard deviation) is the square root of the variance; taking the square root makes it be in the same units as the precipitation data (inches)

<sup>1</sup> Coef. Var. - Coefficient of variation - standard deviation divided by the average - this can be helpful in comparing different intervals on an apples-apples basis where the min. and max precipitation ranges vary a lot.

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**Monthly Rainfall (Inches)**

YEAR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2018	Rainfall	0.55	0.19	0.70	0.00	0.01	0.00	2.23	1.68	0.25	1.64	-1.00	-1.00
The year only reflects NOAA precipitation data through 10/29/2018													
2017	Rainfall	1.85	1.13	0.25	0.01	0.15	0.00	1.57	0.74	1.36	0.00	0.00	0.00
2016	Rainfall	1.32	0.34	0.20	1.57	0.79	0.12	1.33	1.96	0.77	0.67	0.58	2.73
2015	Rainfall	1.17	0.61	1.58	0.23	0.37	0.62	1.95	0.78	0.72	1.69	0.52	0.24
2014	Rainfall	0.00	0.19	0.78	0.41	0.00	0.00	1.24	3.06	2.18	0.51	0.00	1.07
2013	Rainfall	0.73	0.29	0.28	0.09	0.07	0.01	1.35	2.30	1.71	0.13	0.65	0.01
2012	Rainfall	0.07	0.57	1.08	0.93	0.00	0.00	1.61	1.75	0.74	0.58	0.00	1.53
2011	Rainfall	0.00	2.57	0.64	0.94	0.16	0.00	0.52	0.22	1.55	0.70	1.07	1.19
2010	Rainfall	3.56	0.96	0.62	0.39	0.00	0.01	0.18	0.84	0.06	1.46	0.08	2.17
2009	Rainfall	0.38	1.96	0.00	0.06	0.07	0.06	0.68	0.50	0.64	0.00	0.00	1.34
2008	Rainfall	2.58	0.90	0.04	0.00	0.28	0.00	1.58	0.78	0.35	0.02	0.65	2.83
2007	Rainfall	0.14	0.32	0.08	0.02	0.00	0.00	0.74	0.67	0.77	0.02	0.09	2.36
2006	Rainfall	0.01	0.04	0.94	0.36	0.01	0.14	2.42	0.64	0.97	0.73	0.00	0.02
2005	Rainfall	3.40	4.70	0.70	0.42	0.02	0.12	0.64	3.21	0.01	1.50	0.16	0.00
2004	Rainfall	0.09	1.52	0.06	1.72	0.00	0.00	0.30	0.60	0.49	4.87	3.03	1.06
2003	Rainfall	0.15	2.13	1.31	0.59	0.03	0.00	0.57	1.70	1.16	0.15	0.47	0.34
2002	Rainfall	0.02	0.00	0.11	0.00	0.00	0.00	0.40	0.00	2.26	0.84	0.60	0.30
2001	Rainfall	1.45	1.02	0.75	0.80	0.00	0.00	0.70	0.44	0.60	0.34	0.33	0.34
2000	Rainfall	0.01	0.97	0.57	0.11	0.00	0.34	0.01	1.55	0.11	1.56	0.09	0.01
1999	Rainfall	0.46	0.64	0.11	0.86	0.10	0.09	2.11	0.13	1.16	0.00	0.00	0.00
1998	Rainfall	0.45	3.63	1.55	0.45	0.37	0.00	0.64	1.75	0.97	0.11	0.72	0.05

**Rainfall Summary stats: 2017-1948**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hist Avg	1.03	0.99	0.99	0.46	0.20	0.16	0.88	1.25	0.76	0.64	0.58	0.87
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	4.14	4.70	4.67	3.76	1.47	2.48	3.94	4.78	3.88	4.87	3.03	3.75
Variance *	1.11	0.89	1.17	0.40	0.09	0.13	0.58	1.34	0.61	0.66	0.43	0.94
Std. dev. **	1.05	0.95	1.08	0.63	0.30	0.35	0.76	1.16	0.78	0.81	0.65	0.97
Coef. Var. <sup>1</sup>	1.02	0.95	1.09	1.39	1.51	2.15	0.86	0.93	1.03	1.27	1.13	1.12

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**Monthly Rainfall (Inches)**

YEAR		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
2018	Rainfall	0.86	0.34	0.82	0.00	0.02	0.00	4.01	2.27	0.70	1.64	-1.00	-1.00
The year only reflects NOAA precipitation data through 10/29/2018													
2017	Rainfall	2.25	1.52	0.33	0.00	0.39	0.00	2.57	0.78	2.10	0.00	0.00	0.00
2016	Rainfall	1.07	0.41	0.34	1.48	1.18	0.38	2.29	3.05	1.47	1.27	0.64	2.75
2015	Rainfall	1.56	0.69	1.73	0.28	0.29	1.19	1.55	1.05	1.35	1.27	0.39	0.23
2014	Rainfall	0.00	0.13	1.54	0.37	0.00	0.00	2.19	3.69	3.30	0.73	0.00	1.33
2013	Rainfall	0.88	0.12	0.19	0.09	0.26	0.02	2.31	3.46	2.49	0.24	1.01	0.01
2012	Rainfall	0.08	0.58	1.28	1.21	0.00	0.00	2.63	2.67	0.66	0.62	0.00	1.18
2011	Rainfall	0.00	2.62	0.73	1.01	0.27	0.00	1.19	0.87	1.77	0.99	0.68	1.55
2010	Rainfall	4.14	0.78	0.50	0.49	0.00	0.01	0.87	1.59	0.11	2.11	0.34	4.85
2009	Rainfall	0.29	1.66	0.02	0.18	0.16	0.10	1.57	0.55	0.68	0.00	0.01	2.04
2008	Rainfall	2.67	1.12	0.02	0.00	0.43	0.00	2.65	1.56	0.33	0.02	0.69	2.67
2007	Rainfall	0.25	0.49	0.43	0.00	0.00	0.00	1.71	2.48	1.42	0.17	0.39	2.63
2006	Rainfall	0.00	0.05	1.45	1.02	0.02	0.24	7.78	0.94	1.85	1.18	0.01	0.08
2005	Rainfall	3.86	4.64	0.78	0.60	0.01	0.16	1.15	3.47	0.01	1.97	0.18	0.00
2004	Rainfall	0.14	1.50	0.03	1.93	0.00	0.00	0.53	1.01	0.76	5.35	4.03	1.35
2003	Rainfall	0.20	1.82	1.38	0.60	0.06	0.00	1.30	3.15	0.86	0.01	0.66	0.47
2002	Rainfall	0.04	0.00	0.10	0.00	0.00	0.00	0.42	0.02	2.64	1.09	0.75	0.54
2001	Rainfall	1.10	0.91	0.83	0.78	0.01	0.01	0.67	0.87	0.82	0.54	0.58	0.56
2000	Rainfall	0.04	0.81	0.55	0.02	0.01	0.46	0.16	1.86	0.17	1.77	0.13	0.01
1999	Rainfall	0.39	0.62	0.17	0.66	0.06	0.13	2.14	0.32	1.33	0.00	0.00	0.01
1998	Rainfall	0.53	2.87	1.30	0.48	0.43	0.01	0.93	1.87	1.13	0.18	0.93	0.05

**Rainfall Summary stats: 2017-1948**

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Hist Avg	1.10	1.02	1.06	0.52	0.23	0.21	1.25	1.58	0.92	0.75	0.66	0.99
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Maximum	4.14	4.64	4.37	3.86	1.49	2.01	7.78	5.27	3.98	5.35	4.03	4.85
Variance *	1.26	0.87	1.18	0.44	0.09	0.13	1.29	1.46	0.74	0.81	0.54	1.17
Std. dev. **	1.12	0.93	1.08	0.66	0.31	0.36	1.14	1.21	0.86	0.90	0.73	1.08
Coef. Var. <sup>1</sup>	1.02	0.92	1.03	1.28	1.33	1.71	0.91	0.76	0.94	1.21	1.11	1.10

\* A high variance means the data is spread out from the average - it has a lot of variation; mathematically, it is the average of the squared differences from the mean

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