

APPENDIX 2.2 – Rainfall Data

Table 1 – Rainfall Data for 6 Locations

Figure R – Rainfall Depth – Intensity 100-yr. 24-hour Storm

NOAA Atlas 14 Internet Printouts for 6 Locations

Figure B-2 – Approximate Geographic Boundaries for SCS Rainfall Distributions

Figure 14 – Depth- Area Curves (NOAA Atlas 2)

AHYMO_97 Output File – Purpose – to Generate the SCS Type II
100-yr. Hyetograph for Input in the SWMM Model

TABLE 1

RAINFALL DATA for 6 LOCATIONS

Mid Valley Drainage Management Plan

Location Description	Latitude	Latitude	Longitude	Longitude	Return Period	1-Hour Rainfall Depth	6-Hour Rainfall Depth	24-Hour Rainfall Depth
	deg, min, sec	dec. degrees	deg, min, sec	dec. degrees	(year)	(inches)	(inches)	(inches)
						(a)	(a)	(a)
SW corner I-25 & I-40	035, 06, 12.87	35.10358	106, 37, 55.20	106.63200	100	1.79	2.29	2.60
Rio Grande Blvd. @ I-40	035, 06, 15.73	35.10437	106, 40, 12.50	106.67014	100	1.73	2.23	2.51
Lomas Blvd. & 12th St.	035, 05, 31.73	35.09215	106, 39, 32.65	106.65907	100	1.76	2.24	2.55
Bridge Blvd. at 4th St.	035, 04, 12.42	35.07012	106, 39, 13.87	106.65385	100	1.79	2.24	2.60
Lomas Blvd. @ I-25	035, 05, 28.12	35.09114	106, 38, 4.70	106.64639	100	1.78	2.25	2.58
Laguna Blvd. @ San Pasqualte Ave.	035, 05, 12.70	35.08686	106, 40, 11.60	106.66989	100	1.77	2.23	2.54

CONCLUSION - Rainfall depths are nearly uniform over the Mid Valley Study area, Therefore choose the location with greatest depth (SW corner I-25 & I-40)

FINAL RAINFALL DATA FOR ALL RETURN PERIOD STORMS

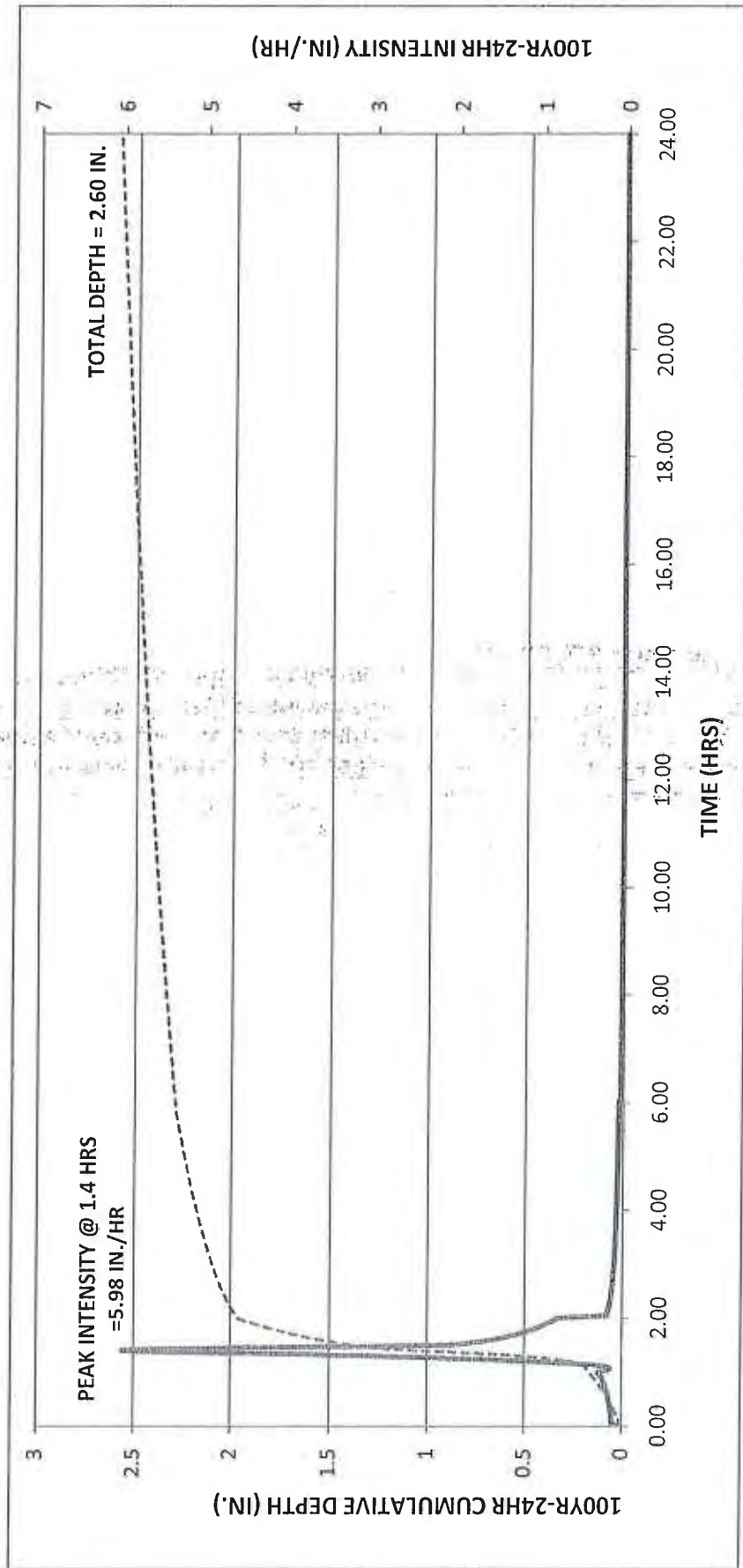
SW corner I-25 & I-40	035, 06, 12.87	35.10358	106, 37, 55.20	106.63200	2	0.70	0.98	1.22
" "	" "	" "	" "	" "	10	1.12	1.49	1.76
" "	" "	" "	" "	" "	50	1.57	2.04	2.34
" "	" "	" "	" "	" "	100	1.79	2.29	2.60
" "	" "	" "	" "	" "	500	2.31	2.92	3.21

(a) NOAA Atlas 14 Point Rainfall Data - internet printouts in Appendix A

Areal reduction factors not applied as total area is relatively small at 4.03 square miles. See NOAA Atlas 2 Vol. IV, New Mexico, 1973 - Figure 14, Depth-Area Curves as included in Appendix A. (recommended by NOAA Atlas 14 staff)

Barelas Basin = 1164 acres, Alacalde Basin = 858 acres, Broadway Basin = 557 acres. Total = 2,579 acres = 4.02969 square miles

Rainfall Distribution - Apply the SCS Type II Distribution - See Figure B-2 from SCS in Appendix A



LEGEND	
100YR-24 HR Cumulative Depth (in.)	
100YR-24 HR Intensity (in./hr)	

Source: NOAA Atlas 14 Point Rainfall Data-internet printouts in Appendix A. Areal reduction factors not applied as total area is relatively small at 4.03 Square miles. See NOAA Atlas 2 Vol. IV, New Mexico, 1973-Figure 14, Depth-Area Curves as included in Appendix A. (recommended by NOAA Atlas 14 staff)

Rainfall Distribution- Apply the SCS Type II Distribution- See Figure B-2 from SCS in Appendix A

MID VALLEY DRAINAGE MANAGEMENT PLAN
FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO FLOOD
CONTROL AUTHORITY

FEBRUARY - 2011

SEC PROJECT NO. 110112

RAINFALL DEPTH -INTENSITY

100YR-24H STORM

FIGURE R

MID VALLEY DAMP — SW CORNER I-25 & I-40



POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14



New Mexico 35.10358 N 106.632 W 5022 feet
from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006

Extracted: Sat Nov 20 2010

Confidence Limits Seasonality Related Info GIS data Maps Docs Return to State Map

Precipitation Frequency Estimates (inches)																		
ARI* (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.17	0.26	0.32	0.43	0.54	0.62	0.67	0.78	0.85	0.97	1.01	1.19	1.34	1.48	1.83	2.19	2.69	3.09
2	0.22	0.34	0.42	0.56	0.70	0.80	0.85	0.98	1.08	1.22	1.27	1.47	1.67	1.84	2.27	2.72	3.33	3.81
5	0.30	0.45	0.56	0.76	0.94	1.06	1.11	1.26	1.36	1.52	1.58	1.81	2.03	2.25	2.76	3.27	3.97	4.54
10	0.36	0.54	0.67	0.91	1.12	1.27	1.32	1.49	1.59	1.76	1.82	2.08	2.31	2.58	3.13	3.68	4.42	5.07
25	0.44	0.67	0.83	1.11	1.38	1.56	1.61	1.80	1.90	2.09	2.15	2.43	2.68	3.00	3.59	4.19	4.97	5.70
50	0.50	0.76	0.94	1.27	1.57	1.79	1.85	2.04	2.14	2.34	2.40	2.70	2.96	3.32	3.93	4.55	5.35	6.13
100	0.57	0.86	1.07	1.44	1.79	2.04	2.10	2.29	2.39	2.60	2.66	2.98	3.24	3.64	4.26	4.89	5.69	6.52
200	0.64	0.97	1.20	1.62	2.01	2.30	2.37	2.56	2.64	2.86	2.92	3.25	3.50	3.96	4.57	5.22	6.00	6.87
500	0.73	1.12	1.38	1.86	2.31	2.67	2.74	2.92	2.99	3.21	3.26	3.61	3.85	4.37	4.95	5.61	6.34	7.27
1000	0.81	1.23	1.53	2.06	2.55	2.96	3.04	3.22	3.27	3.49	3.53	3.89	4.11	4.67	5.23	5.88	6.54	7.51

* These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval. Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting forces estimates near zero to appear as zero.

* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.20	0.30	0.38	0.51	0.63	0.75	0.80	0.92	0.98	1.11	1.15	1.32	1.48	1.63	2.03	2.41	2.95	3.40
2	0.26	0.40	0.49	0.66	0.82	0.96	1.01	1.16	1.24	1.39	1.43	1.63	1.83	2.02	2.52	2.98	3.66	4.20
5	0.35	0.53	0.66	0.89	1.10	1.27	1.32	1.49	1.57	1.74	1.78	2.01	2.23	2.47	3.06	3.58	4.35	5.00
10	0.42	0.63	0.79	1.06	1.31	1.51	1.57	1.75	1.83	2.01	2.05	2.30	2.54	2.82	3.46	4.03	4.85	5.58
25	0.51	0.78	0.96	1.30	1.61	1.85	1.91	2.11	2.18	2.38	2.42	2.69	2.94	3.29	3.98	4.58	5.45	6.26
50	0.58	0.89	1.10	1.49	1.84	2.13	2.19	2.39	2.45	2.66	2.70	3.00	3.25	3.64	4.35	4.97	5.88	6.74
100	0.66	1.01	1.25	1.68	2.08	2.42	2.48	2.69	2.73	2.96	2.99	3.30	3.56	4.00	4.71	5.36	6.25	7.18
200	0.74	1.13	1.40	1.89	2.34	2.72	2.80	2.99	3.03	3.25	3.30	3.61	3.86	4.35	5.05	5.71	6.58	7.58
500	0.86	1.30	1.61	2.17	2.69	3.16	3.23	3.42	3.43	3.65	3.69	4.02	4.26	4.81	5.49	6.14	6.96	8.02
1000	0.94	1.44	1.78	2.40	2.97	3.51	3.60	3.78	3.81	3.96	3.99	4.34	4.55	5.15	5.80	6.44	7.19	8.29

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ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.15	0.22	0.28	0.37	0.46	0.53	0.57	0.67	0.74	0.85	0.89	1.07	1.21	1.34	1.65	1.98	2.44	2.80
2	0.19	0.29	0.36	0.48	0.59	0.68	0.72	0.84	0.93	1.06	1.11	1.32	1.50	1.67	2.05	2.45	3.02	3.47
5	0.25	0.39	0.48	0.64	0.80	0.90	0.95	1.09	1.18	1.33	1.39	1.62	1.83	2.04	2.49	2.95	3.59	4.14
10	0.30	0.46	0.57	0.77	0.95	1.07	1.12	1.27	1.38	1.54	1.59	1.85	2.08	2.34	2.82	3.31	3.99	4.61
25	0.37	0.56	0.70	0.94	1.16	1.30	1.36	1.53	1.63	1.81	1.88	2.17	2.40	2.72	3.23	3.77	4.50	5.18

MID VALLEY DMP - RIO GRANDE BLVD. @ I-40



POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14



New Mexico 35.10437 N 106.67014 W 4957 feet
from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006

Extracted: Sat Nov 20 2010

Confidence Limits	Seasonality	Related Info	GIS data	Maps	Docs	Return to State Map
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Precipitation Frequency Estimates (inches)

ARI* (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.16	0.25	0.31	0.42	0.52	0.60	0.65	0.75	0.82	0.94	0.98	1.18	1.33	1.47	1.81	2.16	2.65	3.04
2	0.21	0.32	0.40	0.54	0.67	0.77	0.82	0.95	1.04	1.17	1.22	1.46	1.65	1.82	2.24	2.68	3.27	3.75
5	0.29	0.44	0.54	0.73	0.90	1.02	1.08	1.23	1.32	1.47	1.52	1.78	2.00	2.22	2.71	3.21	3.89	4.46
10	0.34	0.52	0.65	0.87	1.08	1.22	1.28	1.44	1.54	1.70	1.76	2.04	2.27	2.53	3.07	3.60	4.32	4.95
25	0.42	0.64	0.80	1.07	1.33	1.50	1.57	1.74	1.84	2.02	2.08	2.38	2.63	2.94	3.52	4.08	4.84	5.55
50	0.48	0.74	0.92	1.23	1.52	1.73	1.80	1.98	2.07	2.26	2.32	2.64	2.89	3.24	3.84	4.42	5.18	5.95
100	0.55	0.84	1.04	1.40	1.73	1.97	2.05	2.23	2.31	2.51	2.56	2.90	3.14	3.54	4.14	4.74	5.49	6.31
200	0.62	0.94	1.17	1.58	1.95	2.23	2.31	2.48	2.56	2.76	2.81	3.16	3.39	3.84	4.43	5.03	5.75	6.62
500	0.71	1.09	1.35	1.82	2.25	2.59	2.67	2.84	2.89	3.10	3.14	3.49	3.70	4.21	4.78	5.37	6.02	6.95
1000	0.79	1.20	1.49	2.01	2.48	2.88	2.97	3.14	3.17	3.37	3.40	3.75	3.93	4.49	5.02	5.61	6.16	7.13

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* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)

ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.19	0.29	0.36	0.49	0.60	0.72	0.77	0.88	0.95	1.07	1.10	1.29	1.45	1.60	1.98	2.35	2.88	3.31
2	0.25	0.38	0.47	0.63	0.78	0.92	0.98	1.12	1.20	1.34	1.38	1.60	1.80	1.98	2.46	2.90	3.55	4.08
5	0.34	0.51	0.63	0.85	1.05	1.22	1.28	1.44	1.51	1.67	1.72	1.96	2.18	2.41	2.96	3.48	4.21	4.83
10	0.40	0.61	0.76	1.02	1.26	1.45	1.51	1.69	1.77	1.93	1.98	2.23	2.47	2.74	3.35	3.89	4.67	5.37
25	0.49	0.75	0.93	1.25	1.55	1.78	1.85	2.04	2.10	2.29	2.33	2.60	2.85	3.18	3.83	4.41	5.22	6.01
50	0.56	0.86	1.07	1.44	1.78	2.05	2.12	2.31	2.36	2.56	2.60	2.89	3.13	3.50	4.18	4.77	5.60	6.44
100	0.64	0.98	1.21	1.63	2.02	2.33	2.40	2.60	2.64	2.84	2.88	3.17	3.41	3.83	4.50	5.11	5.92	6.83
200	0.72	1.10	1.36	1.84	2.27	2.63	2.71	2.89	2.92	3.13	3.17	3.45	3.68	4.15	4.81	5.43	6.19	7.17
500	0.83	1.27	1.57	2.12	2.62	3.05	3.14	3.31	3.35	3.52	3.54	3.83	4.02	4.56	5.20	5.79	6.47	7.53
1000	0.92	1.40	1.74	2.34	2.89	3.40	3.50	3.67	3.70	3.82	3.83	4.11	4.28	4.87	5.46	6.05	6.62	7.72

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1	0.14	0.21	0.27	0.36	0.44	0.51	0.56	0.65	0.72	0.82	0.86	1.07	1.22	1.35	1.65	1.98	2.43	2.80
2	0.18	0.28	0.34	0.46	0.57	0.65	0.70	0.82	0.91	1.03	1.08	1.33	1.50	1.67	2.05	2.45	3.01	3.46
5	0.24	0.37	0.46	0.62	0.77	0.86	0.92	1.06	1.15	1.29	1.35	1.62	1.83	2.04	2.48	2.94	3.57	4.11
10	0.29	0.44	0.55	0.74	0.92	1.03	1.09	1.24	1.34	1.49	1.55	1.85	2.07	2.32	2.81	3.29	3.97	4.57
25	0.36	0.54	0.67	0.91	1.12	1.26	1.32	1.49	1.59	1.76	1.83	2.15	2.39	2.69	3.21	3.73	4.45	5.13

MID VALLEY DMP - LOMAS BLVD @ 12TH STPOINT PRECIPITATION
FREQUENCY ESTIMATES
FROM NOAA ATLAS 14

New Mexico 35.09215 N 106.65907 W 4957 feet
 from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
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1	0.17	0.26	0.32	0.43	0.53	0.61	0.65	0.76	0.84	0.95	0.99	1.17	1.33	1.46	1.81	2.16	2.65	3.04
2	0.22	0.33	0.41	0.56	0.69	0.78	0.83	0.96	1.06	1.20	1.24	1.46	1.65	1.81	2.24	2.67	3.27	3.75
5	0.29	0.45	0.55	0.75	0.92	1.04	1.09	1.24	1.34	1.49	1.55	1.78	2.00	2.22	2.71	3.21	3.88	4.45
10	0.35	0.54	0.66	0.89	1.11	1.24	1.29	1.46	1.56	1.73	1.78	2.04	2.27	2.53	3.07	3.60	4.32	4.96
25	0.43	0.66	0.81	1.10	1.36	1.52	1.58	1.76	1.86	2.05	2.10	2.38	2.62	2.94	3.52	4.08	4.84	5.55
50	0.49	0.75	0.93	1.26	1.56	1.75	1.81	1.99	2.10	2.30	2.35	2.64	2.89	3.24	3.84	4.43	5.19	5.96
100	0.56	0.85	1.06	1.43	1.76	2.00	2.06	2.24	2.34	2.55	2.60	2.90	3.15	3.55	4.15	4.74	5.50	6.32
200	0.63	0.96	1.19	1.60	1.99	2.25	2.32	2.50	2.59	2.81	2.85	3.16	3.39	3.84	4.44	5.04	5.77	6.63
500	0.73	1.10	1.37	1.84	2.28	2.61	2.69	2.86	2.93	3.16	3.19	3.50	3.71	4.22	4.79	5.39	6.05	6.98
1000	0.80	1.22	1.51	2.04	2.52	2.90	2.98	3.15	3.20	3.43	3.45	3.76	3.94	4.50	5.04	5.63	6.20	7.17

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1	0.20	0.30	0.37	0.50	0.62	0.73	0.77	0.89	0.96	1.09	1.12	1.29	1.45	1.60	1.98	2.35	2.88	3.31
2	0.26	0.39	0.48	0.65	0.80	0.93	0.99	1.13	1.21	1.36	1.40	1.60	1.80	1.98	2.46	2.90	3.55	4.08
5	0.34	0.52	0.65	0.87	1.08	1.23	1.29	1.45	1.53	1.70	1.74	1.95	2.18	2.41	2.96	3.48	4.22	4.84
10	0.41	0.62	0.77	1.04	1.29	1.47	1.53	1.70	1.79	1.97	2.00	2.23	2.47	2.74	3.35	3.90	4.68	5.38
25	0.50	0.77	0.95	1.28	1.58	1.80	1.86	2.05	2.13	2.33	2.36	2.61	2.85	3.18	3.84	4.41	5.24	6.02
50	0.57	0.88	1.08	1.46	1.81	2.07	2.13	2.32	2.39	2.61	2.64	2.89	3.13	3.51	4.19	4.78	5.62	6.46
100	0.65	0.99	1.23	1.66	2.05	2.35	2.42	2.61	2.67	2.90	2.92	3.18	3.42	3.84	4.52	5.13	5.95	6.86
200	0.73	1.11	1.38	1.86	2.30	2.65	2.73	2.91	2.95	3.18	3.21	3.46	3.69	4.17	4.83	5.45	6.24	7.20
500	0.84	1.28	1.59	2.14	2.65	3.07	3.15	3.33	3.35	3.58	3.59	3.84	4.04	4.59	5.22	5.83	6.54	7.58
1000	0.93	1.42	1.76	2.36	2.93	3.42	3.51	3.68	3.72	3.88	3.92	4.13	4.30	4.90	5.49	6.09	6.69	7.79

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* Lower bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.14	0.22	0.27	0.37	0.46	0.52	0.56	0.66	0.73	0.84	0.88	1.07	1.21	1.34	1.65	1.97	2.43	2.79
2	0.19	0.28	0.35	0.47	0.59	0.67	0.71	0.83	0.92	1.05	1.10	1.32	1.50	1.66	2.04	2.44	3.00	3.45
5	0.25	0.38	0.47	0.64	0.79	0.88	0.94	1.07	1.17	1.31	1.37	1.61	1.82	2.03	2.48	2.93	3.56	4.10
10	0.30	0.46	0.56	0.76	0.94	1.05	1.11	1.26	1.36	1.52	1.58	1.84	2.06	2.31	2.80	3.29	3.96	4.57
25	0.36	0.56	0.69	0.93	1.15	1.28	1.34	1.50	1.61	1.79	1.85	2.15	2.38	2.69	3.21	3.72	4.45	5.12

MID VALLEY DMP - BRIDGE BLVD @ 4TH ST



POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14



New Mexico 35.07012 N 106.65385 W 4954 feet
from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006
Extracted: Sat Nov 20 2010

Confidence Limits		Seasonality		Related Info		GIS data		Maps		Docs		Return to State Map						
Precipitation Frequency Estimates (inches)																		
ARI* (years)	<u>5 min</u>	<u>10 min</u>	<u>15 min</u>	<u>30 min</u>	<u>60 min</u>	<u>120 min</u>	<u>3 hr</u>	<u>6 hr</u>	<u>12 hr</u>	<u>24 hr</u>	<u>48 hr</u>	<u>4 day</u>	<u>7 day</u>	<u>10 day</u>	<u>20 day</u>	<u>30 day</u>	<u>45 day</u>	<u>60 day</u>
1	0.17	0.26	0.33	0.44	0.54	0.62	0.66	0.77	0.85	0.97	1.01	1.18	1.34	1.47	1.83	2.19	2.67	3.07
2	0.22	0.34	0.42	0.57	0.70	0.79	0.84	0.97	1.07	1.22	1.26	1.46	1.66	1.82	2.27	2.71	3.30	3.79
5	0.30	0.46	0.56	0.76	0.94	1.05	1.10	1.25	1.35	1.52	1.57	1.78	2.01	2.23	2.75	3.25	3.93	4.51
10	0.36	0.55	0.68	0.91	1.13	1.26	1.31	1.46	1.58	1.76	1.81	2.04	2.28	2.54	3.11	3.65	4.37	5.02
25	0.44	0.67	0.83	1.12	1.38	1.54	1.60	1.76	1.88	2.09	2.14	2.38	2.64	2.96	3.57	4.15	4.90	5.63
50	0.50	0.76	0.95	1.28	1.58	1.77	1.83	2.00	2.11	2.34	2.38	2.65	2.91	3.27	3.90	4.50	5.26	6.04
100	0.57	0.86	1.07	1.45	1.79	2.01	2.07	2.24	2.36	2.60	2.64	2.91	3.17	3.58	4.22	4.83	5.58	6.42
200	0.64	0.97	1.20	1.62	2.01	2.27	2.34	2.50	2.60	2.86	2.90	3.17	3.42	3.88	4.51	5.13	5.85	6.74
500	0.73	1.11	1.38	1.86	2.30	2.62	2.70	2.86	2.94	3.21	3.24	3.51	3.75	4.26	4.88	5.50	6.15	7.10
1000	0.81	1.23	1.52	2.05	2.54	2.91	2.99	3.15	3.21	3.49	3.50	3.77	3.98	4.55	5.14	5.74	6.31	7.31

* These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval. Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting forces estimates near zero to appear as zero.

* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.20	0.30	0.38	0.51	0.63	0.73	0.78	0.90	0.97	1.10	1.13	1.28	1.45	1.60	2.00	2.36	2.89	3.33
2	0.26	0.40	0.49	0.66	0.82	0.94	0.99	1.13	1.22	1.38	1.42	1.59	1.80	1.98	2.47	2.93	3.57	4.11
5	0.35	0.53	0.66	0.88	1.09	1.24	1.29	1.45	1.54	1.72	1.76	1.95	2.18	2.41	2.99	3.51	4.24	4.87
10	0.41	0.63	0.78	1.05	1.30	1.47	1.53	1.70	1.79	1.99	2.02	2.22	2.48	2.75	3.37	3.94	4.71	5.42
25	0.51	0.77	0.96	1.29	1.60	1.80	1.86	2.04	2.13	2.36	2.38	2.60	2.86	3.19	3.87	4.46	5.27	6.07
50	0.58	0.88	1.09	1.47	1.82	2.07	2.12	2.31	2.40	2.63	2.66	2.88	3.15	3.52	4.22	4.84	5.66	6.51
100	0.66	1.00	1.24	1.67	2.06	2.35	2.41	2.60	2.67	2.92	2.95	3.17	3.44	3.85	4.56	5.19	5.99	6.92
200	0.74	1.12	1.39	1.87	2.31	2.64	2.71	2.89	2.95	3.22	3.24	3.45	3.71	4.18	4.88	5.52	6.29	7.27
500	0.85	1.29	1.59	2.15	2.66	3.06	3.13	3.31	3.35	3.62	3.62	3.83	4.07	4.60	5.28	5.91	6.60	7.66
1000	0.93	1.42	1.76	2.37	2.93	3.40	3.49	3.65	3.66	3.92	3.96	4.12	4.33	4.92	5.56	6.18	6.77	7.88

* The upper bound of the confidence interval at 90% confidence level is the value which 5% of the simulated quantile values for a given frequency are greater than.

** These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.

Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting prevents estimates near zero to appear as zero.

* Lower bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.15	0.23	0.28	0.38	0.47	0.53	0.57	0.67	0.75	0.86	0.90	1.07	1.23	1.35	1.68	2.01	2.47	2.84
2	0.19	0.29	0.36	0.49	0.61	0.68	0.72	0.84	0.94	1.08	1.12	1.33	1.52	1.68	2.08	2.49	3.05	3.51
5	0.26	0.39	0.48	0.65	0.81	0.90	0.95	1.09	1.19	1.34	1.40	1.62	1.84	2.05	2.52	2.99	3.63	4.18
10	0.31	0.47	0.58	0.78	0.97	1.07	1.12	1.27	1.38	1.56	1.61	1.86	2.09	2.34	2.86	3.36	4.03	4.65
25	0.38	0.57	0.71	0.95	1.18	1.30	1.36	1.52	1.64	1.83	1.90	2.17	2.42	2.72	3.27	3.81	4.53	5.22

MID VALLEY DMP - LOMAS BLVD. @ I-25



POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14



New Mexico 35.09114 N 106.64639 W 4986 feet
from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006

Extracted: Sat Nov 20 2010

Confidence Limits

Seasonality

Related Info

GIS data

Maps

Docs

Return to State Map

Precipitation Frequency Estimates (inches)

ARI* (years)	<u>5 min</u>	<u>10 min</u>	<u>15 min</u>	<u>30 min</u>	<u>60 min</u>	<u>120 min</u>	<u>3 hr</u>	<u>6 hr</u>	<u>12 hr</u>	<u>24 hr</u>	<u>48 hr</u>	<u>4 day</u>	<u>7 day</u>	<u>10 day</u>	<u>20 day</u>	<u>30 day</u>	<u>45 day</u>	<u>60 day</u>
1	0.17	0.26	0.32	0.43	0.54	0.62	0.66	0.77	0.84	0.96	1.00	1.18	1.33	1.47	1.81	2.17	2.66	3.05
2	0.22	0.34	0.42	0.56	0.69	0.79	0.84	0.96	1.06	1.21	1.25	1.46	1.65	1.82	2.25	2.68	3.28	3.76
5	0.30	0.45	0.56	0.75	0.93	1.04	1.10	1.25	1.35	1.51	1.56	1.79	2.00	2.22	2.72	3.22	3.91	4.47
10	0.35	0.54	0.67	0.90	1.11	1.25	1.30	1.47	1.57	1.75	1.80	2.05	2.28	2.54	3.08	3.62	4.34	4.98
25	0.43	0.66	0.82	1.10	1.37	1.53	1.59	1.77	1.88	2.07	2.12	2.39	2.64	2.95	3.53	4.11	4.88	5.59
50	0.50	0.76	0.94	1.26	1.57	1.77	1.83	2.00	2.11	2.32	2.37	2.66	2.91	3.26	3.86	4.46	5.24	6.00
100	0.56	0.86	1.07	1.44	1.78	2.01	2.07	2.25	2.35	2.58	2.62	2.92	3.17	3.57	4.18	4.78	5.56	6.38
200	0.64	0.97	1.20	1.61	2.00	2.27	2.34	2.51	2.60	2.84	2.88	3.18	3.42	3.87	4.47	5.09	5.83	6.70
500	0.73	1.11	1.38	1.85	2.29	2.63	2.70	2.88	2.94	3.19	3.21	3.53	3.75	4.26	4.83	5.45	6.13	7.05
1000	0.81	1.23	1.52	2.05	2.53	2.92	3.00	3.17	3.22	3.46	3.47	3.79	3.99	4.55	5.09	5.69	6.30	7.26

* These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval. Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting forces estimates near zero to appear as zero.

* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.20	0.30	0.38	0.51	0.62	0.73	0.78	0.90	0.97	1.10	1.13	1.29	1.46	1.61	1.99	2.36	2.89	3.33
2	0.26	0.39	0.49	0.65	0.81	0.94	0.99	1.14	1.22	1.38	1.41	1.61	1.80	1.99	2.47	2.92	3.58	4.11
5	0.35	0.53	0.65	0.88	1.09	1.25	1.30	1.46	1.54	1.72	1.75	1.97	2.19	2.42	2.99	3.50	4.25	4.88
10	0.41	0.63	0.78	1.05	1.30	1.48	1.54	1.72	1.80	1.99	2.02	2.25	2.48	2.76	3.37	3.93	4.72	5.43
25	0.51	0.77	0.95	1.29	1.59	1.82	1.88	2.07	2.14	2.36	2.38	2.63	2.87	3.21	3.87	4.46	5.30	6.08
50	0.58	0.88	1.09	1.47	1.82	2.09	2.15	2.34	2.41	2.63	2.66	2.92	3.16	3.54	4.23	4.83	5.69	6.53
100	0.66	1.00	1.24	1.67	2.06	2.37	2.43	2.63	2.69	2.92	2.94	3.21	3.46	3.88	4.57	5.18	6.03	6.94
200	0.74	1.12	1.39	1.87	2.32	2.67	2.74	2.93	2.97	3.21	3.24	3.50	3.73	4.21	4.88	5.51	6.33	7.29
500	0.85	1.29	1.60	2.15	2.67	3.09	3.17	3.35	3.37	3.61	3.62	3.89	4.10	4.64	5.29	5.91	6.65	7.69
1000	0.94	1.42	1.76	2.38	2.94	3.44	3.53	3.70	3.74	3.92	3.92	4.18	4.37	4.96	5.57	6.18	6.83	7.92

* The upper bound of the confidence interval at 90% confidence level is the value which 5% of the simulated quantile values for a given frequency are greater than.

** These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.

Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting prevents estimates near zero to appear as zero.

* Lower bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.15	0.22	0.28	0.37	0.46	0.53	0.57	0.66	0.74	0.85	0.88	1.07	1.21	1.34	1.65	1.97	2.43	2.79
2	0.19	0.29	0.36	0.48	0.59	0.67	0.72	0.83	0.93	1.06	1.10	1.32	1.50	1.66	2.04	2.44	3.01	3.45
5	0.25	0.38	0.48	0.64	0.79	0.89	0.94	1.08	1.17	1.32	1.38	1.61	1.82	2.03	2.48	2.93	3.57	4.11
10	0.30	0.46	0.57	0.77	0.95	1.06	1.11	1.26	1.37	1.53	1.58	1.85	2.07	2.32	2.80	3.29	3.97	4.58
25	0.37	0.56	0.69	0.94	1.16	1.29	1.35	1.51	1.62	1.81	1.86	2.15	2.39	2.70	3.21	3.73	4.46	5.13

MID VALLEY DMP - LAGUNA BLVD. @ SAN PASQUALE AVE



POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14



New Mexico 35.08686 N 106.66989 W 4950 feet

from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4

G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M. Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006

Extracted: Sat Nov 20 2010

Confidence Limits	Seasonality	Related Info	GIS data	Maps	Docs	Return to State Map
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Precipitation Frequency Estimates (inches)																		
ARI* (years)	<u>5</u> <u>min</u>	<u>10</u> <u>min</u>	<u>15</u> <u>min</u>	<u>30</u> <u>min</u>	<u>60</u> <u>min</u>	<u>120</u> <u>min</u>	<u>3 hr</u>	<u>6 hr</u>	<u>12 hr</u>	<u>24 hr</u>	<u>48 hr</u>	<u>4</u> <u>day</u>	<u>7</u> <u>day</u>	<u>10</u> <u>day</u>	<u>20</u> <u>day</u>	<u>30</u> <u>day</u>	<u>45</u> <u>day</u>	<u>60</u> <u>day</u>
1	0.17	0.26	0.32	0.43	0.53	0.61	0.65	0.76	0.83	0.95	0.99	1.17	1.33	1.46	1.81	2.16	2.64	3.03
2	0.22	0.33	0.41	0.56	0.69	0.78	0.83	0.95	1.05	1.19	1.24	1.45	1.64	1.81	2.24	2.67	3.26	3.74
5	0.29	0.45	0.56	0.75	0.93	1.03	1.08	1.23	1.34	1.49	1.54	1.77	1.99	2.21	2.71	3.20	3.87	4.44
10	0.35	0.54	0.67	0.90	1.11	1.23	1.29	1.45	1.56	1.73	1.78	2.03	2.26	2.52	3.06	3.59	4.30	4.94
25	0.43	0.66	0.82	1.10	1.36	1.52	1.58	1.75	1.86	2.04	2.10	2.37	2.61	2.92	3.51	4.07	4.82	5.54
50	0.49	0.75	0.93	1.26	1.56	1.74	1.81	1.98	2.09	2.29	2.34	2.62	2.87	3.23	3.83	4.41	5.16	5.93
100	0.56	0.85	1.06	1.43	1.77	1.99	2.05	2.23	2.33	2.54	2.59	2.88	3.13	3.53	4.14	4.73	5.47	6.30
200	0.63	0.96	1.19	1.60	1.99	2.24	2.31	2.48	2.58	2.80	2.84	3.14	3.37	3.82	4.42	5.02	5.72	6.60
500	0.73	1.10	1.37	1.84	2.28	2.60	2.67	2.84	2.92	3.15	3.17	3.47	3.68	4.20	4.77	5.36	5.99	6.94
1000	0.80	1.22	1.51	2.04	2.52	2.89	2.97	3.13	3.19	3.42	3.43	3.72	3.91	4.47	5.01	5.60	6.14	7.12

* These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.
Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting forces estimates near zero to appear as zero.

* Upper bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.20	0.30	0.37	0.50	0.62	0.72	0.77	0.89	0.96	1.08	1.11	1.28	1.45	1.59	1.97	2.34	2.86	3.29
2	0.26	0.39	0.48	0.65	0.80	0.93	0.98	1.12	1.21	1.35	1.39	1.59	1.79	1.97	2.44	2.89	3.53	4.06
5	0.34	0.52	0.65	0.87	1.08	1.22	1.28	1.44	1.53	1.69	1.73	1.94	2.17	2.39	2.95	3.46	4.19	4.81
10	0.41	0.62	0.77	1.04	1.29	1.45	1.52	1.69	1.78	1.96	1.99	2.21	2.46	2.73	3.33	3.88	4.65	5.34
25	0.50	0.77	0.95	1.28	1.58	1.78	1.85	2.03	2.12	2.32	2.35	2.58	2.83	3.16	3.81	4.39	5.20	5.98
50	0.57	0.88	1.08	1.46	1.81	2.05	2.11	2.30	2.38	2.59	2.62	2.87	3.11	3.48	4.16	4.75	5.57	6.41
100	0.65	0.99	1.23	1.66	2.05	2.33	2.40	2.59	2.65	2.88	2.90	3.15	3.39	3.81	4.48	5.09	5.89	6.80
200	0.73	1.11	1.38	1.86	2.30	2.62	2.71	2.88	2.94	3.17	3.18	3.43	3.66	4.13	4.79	5.41	6.17	7.13
500	0.84	1.28	1.59	2.14	2.65	3.04	3.13	3.30	3.33	3.56	3.56	3.80	4.00	4.54	5.17	5.78	6.45	7.50
1000	0.93	1.41	1.75	2.36	2.92	3.39	3.48	3.65	3.65	3.86	3.90	4.08	4.25	4.84	5.44	6.03	6.60	7.69

* The upper bound of the confidence interval at 90% confidence level is the value which 5% of the simulated quantile values for a given frequency are greater than.

** These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.

Please refer to NOAA Atlas 14 Document for more information. NOTE: Formatting prevents estimates near zero to appear as zero.

* Lower bound of the 90% confidence interval Precipitation Frequency Estimates (inches)																		
ARI** (years)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
1	0.14	0.22	0.27	0.37	0.46	0.52	0.56	0.66	0.73	0.84	0.88	1.07	1.21	1.34	1.65	1.98	2.43	2.79
2	0.19	0.29	0.35	0.48	0.59	0.66	0.71	0.83	0.92	1.05	1.10	1.32	1.50	1.66	2.05	2.44	3.00	3.45
5	0.25	0.38	0.47	0.64	0.79	0.88	0.93	1.07	1.17	1.31	1.37	1.61	1.82	2.03	2.48	2.93	3.56	4.10
10	0.30	0.46	0.57	0.76	0.94	1.04	1.10	1.25	1.36	1.52	1.57	1.84	2.06	2.31	2.80	3.29	3.96	4.57
25	0.37	0.56	0.69	0.93	1.15	1.27	1.33	1.50	1.61	1.79	1.85	2.15	2.39	2.68	3.21	3.73	4.44	5.12



Figure B-2.—Approximate geographic boundaries for SCS rainfall distributions.

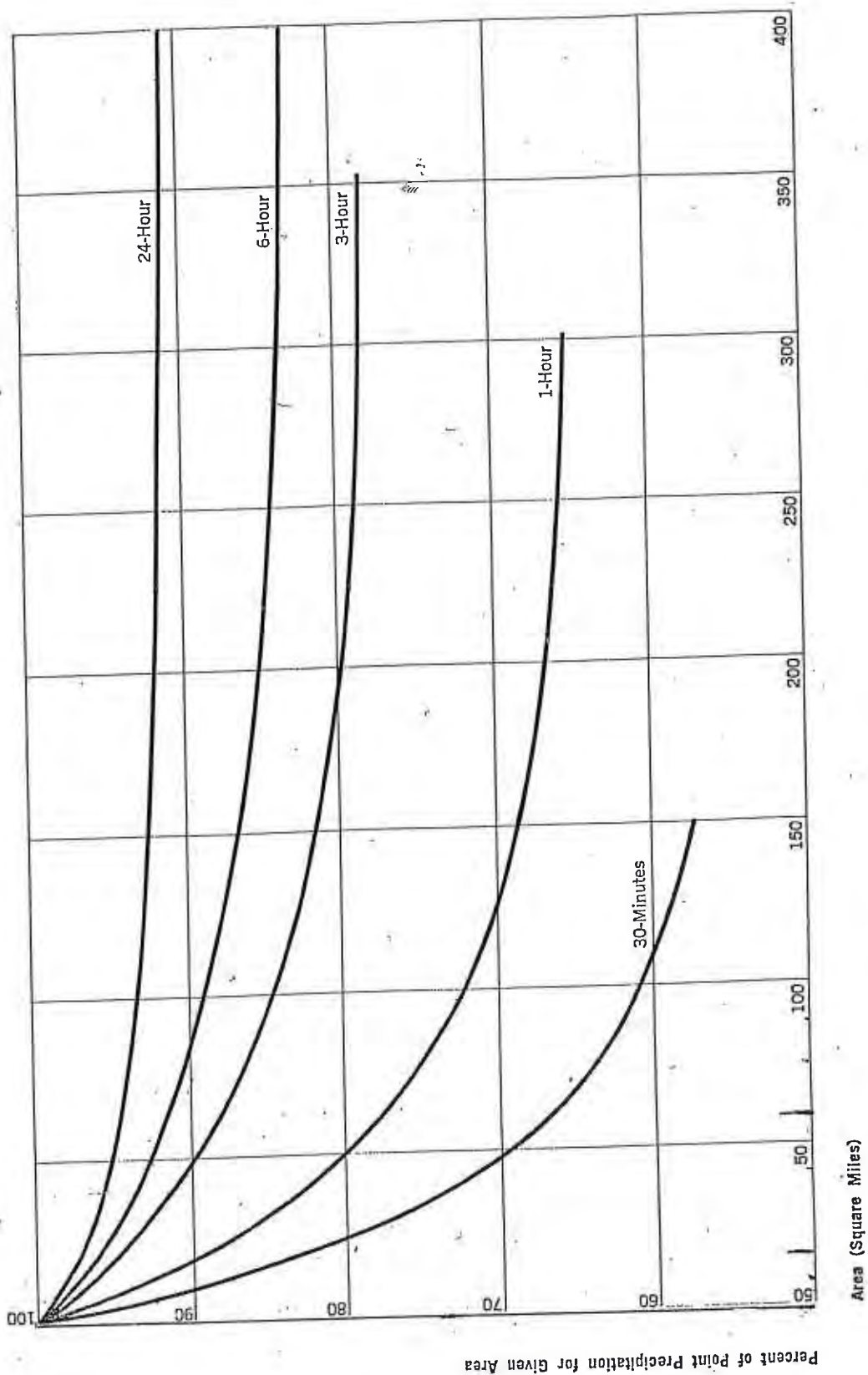


Figure 14. Depth-Area curves.

SOURCE:

NOAA Atlas 2, Vol. IV, New Mexico
 Precipitation Frequency Atlas of the Western United States
 U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration
 National Weather Service. Silver Spring MD, 1973.

PURPOSE OF THIS AHYMO_97 OUTPUT FILE :

**THIS IS THE FINAL 100-yr. 24-hour RAINFALL HYETOGRAPH as
GENERATED BY AHYMO_97**

**For SCS TYPE II RAINFALL DISTRIBUTION AND NOAA ATLAS 14
POINT RAINFALL DEPTHS**

THIS RAINFALL HYETOGRAPH WILL BE USED IN THE SWMM Model

AHYMO PROGRAM (AHYMO_97) - Version: 1997.02c
RUN DATE (MON/DAY/YR) = 11/20/2010
START TIME (HR:MIN:SEC) = 09:08:29 USER NO. = AHYMO-S-9702c01SEC01A-AH
INPUT FILE = Q:\SEOCVM-P\2FKWN6-Q\13AYKU-8\DDRU20-D\ABIJZX-P\AIQZF9-Z\AP3KME-G.TXT

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0
*S
*S PROJECT NAME - MID VALLEY DRAINAGE MANAGEMENT PLAN
*S
*S MODEL PURPOSE - TO COMPARE AHYMO_97 BASIN HYDROGRAPH RESULTS
*S TO SWMM V.0.021 BASIN HYDROGRAPH RESULTS
*S
*S MODEL DEVELOPMENT CONDITIONS AND ASSUMPTIONS
*S
*S MODEL DESCRIPTION -
*S
*S 1. EXISTING BASIN DEVELOPMENT CONDITIONS -
*S
*S 2. NO SEDIMENT BULKING APPLIED
*S
*S 3. USE PROCEDURES FROM City of Albuquerque
*S Development Process Manual DPM SECTION 22
*S
*S PREPARED BY : Pat Stovall, PE, CFM, Felix Carles, PE, CFM
*S
*S input file name : ahymo97test1.txt 100-YR. 24-HR. STORM
*S summary table file name : ahymo97test1sm.doc " "
*S output file name : ahymo97test1ot.doc " "
*S
*S Prepared for : City of Albuquerque
*S
*S
*S NOAA ATLAS 14 Rainfall Data for various return period
*S 24-hour storms follows:
*S return period 1-hr. depth(in.) 6-hr. depth(in.) 24-hr. depth(in.)
*S 100-yr. 1.79 2.29 2.60
*S 500-yr. 2.31 2.92 3.21
*S 50-yr. 1.57 2.04 2.34
*S 10-yr. 1.12 1.49 1.76
*S 2-yr. 0.70 0.98 1.22
*S
*S 100-yr. 24-hr. rainfall (DT = 0.05 hours = 3 minutes as time interval)
*S

RAINFALL

TYPE=2 RAIN QUARTER=0.0 ONE=1.79 IN
SIX=2.29 IN DAY=2.60 IN DT=0.05 HOURS

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT =	.050000 HOURS			END TIME =			24.000000 HOURS
.0000	.0057	.0116	.0177	.0240	.0305	.0373	
.0443	.0515	.0590	.0669	.0751	.0837	.0927	
.1022	.1122	.1227	.1340	.1460	.1590	.1730	
.1805	.1889	.2130	.2701	.3683	.5201	.7387	
1.0376	1.2733	1.3798	1.4688	1.5467	1.6163	1.6794	
1.7369	1.7897	1.8383	1.8832	1.9246	1.9630	1.9726	
1.9816	1.9902	1.9982	2.0059	2.0133	2.0203	2.0271	
2.0336	2.0399	2.0460	2.0519	2.0577	2.0633	2.0687	
2.0740	2.0792	2.0842	2.0892	2.0940	2.0987	2.1034	
2.1079	2.1124	2.1168	2.1211	2.1253	2.1295	2.1335	
2.1376	2.1415	2.1454	2.1493	2.1531	2.1568	2.1605	
2.1642	2.1678	2.1713	2.1748	2.1783	2.1817	2.1851	
2.1884	2.1917	2.1950	2.1982	2.2014	2.2046	2.2077	
2.2108	2.2139	2.2170	2.2200	2.2230	2.2259	2.2288	
2.2317	2.2346	2.2375	2.2403	2.2431	2.2459	2.2486	
2.2514	2.2541	2.2568	2.2594	2.2621	2.2647	2.2673	
2.2699	2.2725	2.2751	2.2776	2.2801	2.2826	2.2851	
2.2876	2.2900	2.2913	2.2927	2.2940	2.2954	2.2967	
2.2980	2.2993	2.3007	2.3020	2.3033	2.3046	2.3059	
2.3071	2.3084	2.3097	2.3110	2.3123	2.3135	2.3148	
2.3161	2.3173	2.3186	2.3198	2.3210	2.3223	2.3235	
2.3247	2.3260	2.3272	2.3284	2.3296	2.3308	2.3320	
2.3332	2.3344	2.3356	2.3368	2.3380	2.3392	2.3403	
2.3415	2.3427	2.3439	2.3450	2.3462	2.3473	2.3485	
2.3496	2.3508	2.3519	2.3530	2.3542	2.3553	2.3564	
2.3576	2.3587	2.3598	2.3609	2.3620	2.3631	2.3642	
2.3653	2.3664	2.3675	2.3686	2.3697	2.3708	2.3718	
2.3729	2.3740	2.3751	2.3761	2.3772	2.3782	2.3793	
2.3804	2.3814	2.3825	2.3835	2.3845	2.3856	2.3866	
2.3877	2.3887	2.3897	2.3907	2.3918	2.3928	2.3938	
2.3948	2.3958	2.3968	2.3978	2.3988	2.3998	2.4008	
2.4018	2.4028	2.4038	2.4048	2.4058	2.4067	2.4077	
2.4087	2.4097	2.4106	2.4116	2.4126	2.4135	2.4145	
2.4155	2.4164	2.4174	2.4183	2.4193	2.4202	2.4212	
2.4221	2.4230	2.4240	2.4249	2.4258	2.4268	2.4277	
2.4286	2.4295	2.4305	2.4314	2.4323	2.4332	2.4341	
2.4350	2.4359	2.4368	2.4377	2.4386	2.4395	2.4404	
2.4413	2.4422	2.4431	2.4440	2.4449	2.4458	2.4466	
2.4475	2.4484	2.4493	2.4501	2.4510	2.4519	2.4527	
2.4536	2.4545	2.4553	2.4562	2.4571	2.4579	2.4588	
2.4596	2.4605	2.4613	2.4621	2.4630	2.4638	2.4647	
2.4655	2.4663	2.4672	2.4680	2.4688	2.4697	2.4705	
2.4713	2.4721	2.4730	2.4738	2.4746	2.4754	2.4762	
2.4770	2.4779	2.4787	2.4795	2.4803	2.4811	2.4819	
2.4827	2.4835	2.4843	2.4851	2.4859	2.4866	2.4874	
2.4882	2.4890	2.4898	2.4906	2.4914	2.4921	2.4929	
2.4937	2.4945	2.4952	2.4960	2.4968	2.4976	2.4983	
2.4991	2.4999	2.5006	2.5014	2.5021	2.5029	2.5037	
2.5044	2.5052	2.5059	2.5067	2.5074	2.5082	2.5089	
2.5097	2.5104	2.5111	2.5119	2.5126	2.5134	2.5141	
2.5148	2.5156	2.5163	2.5170	2.5177	2.5185	2.5192	
2.5199	2.5207	2.5214	2.5221	2.5228	2.5235	2.5242	
2.5250	2.5257	2.5264	2.5271	2.5278	2.5285	2.5292	
2.5299	2.5306	2.5313	2.5320	2.5327	2.5334	2.5341	
2.5348	2.5355	2.5362	2.5369	2.5376	2.5383	2.5390	
2.5397	2.5404	2.5411	2.5417	2.5424	2.5431	2.5438	
2.5445	2.5451	2.5458	2.5465	2.5472	2.5478	2.5485	
2.5492	2.5499	2.5505	2.5512	2.5519	2.5525	2.5532	
2.5539	2.5545	2.5552	2.5558	2.5565	2.5571	2.5578	
2.5585	2.5591	2.5598	2.5604	2.5611	2.5617	2.5624	
2.5630	2.5637	2.5643	2.5650	2.5656	2.5662	2.5669	
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2.5807	2.5813	2.5820	2.5826	2.5832	2.5838	2.5844	
2.5850	2.5856	2.5862	2.5868	2.5875	2.5881	2.5887	
2.5893	2.5899	2.5905	2.5911	2.5917	2.5923	2.5929	
2.5935	2.5941	2.5947	2.5953	2.5959	2.5965	2.5970	

20F3

2.5976 2.5982 2.5988 2.5994 2.6000

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 09:08:29

Q:\SEC---PROJECTS\2010 Projects\110112 COA MID VALLEY DMP\DMP Appendices Volume 3\Appendix 6
Sensitivity Analysis (AHYMO vs SWMM)\report & fig & tab\AHYMO_97 final 100-24 rainfall
hyetograph.txt