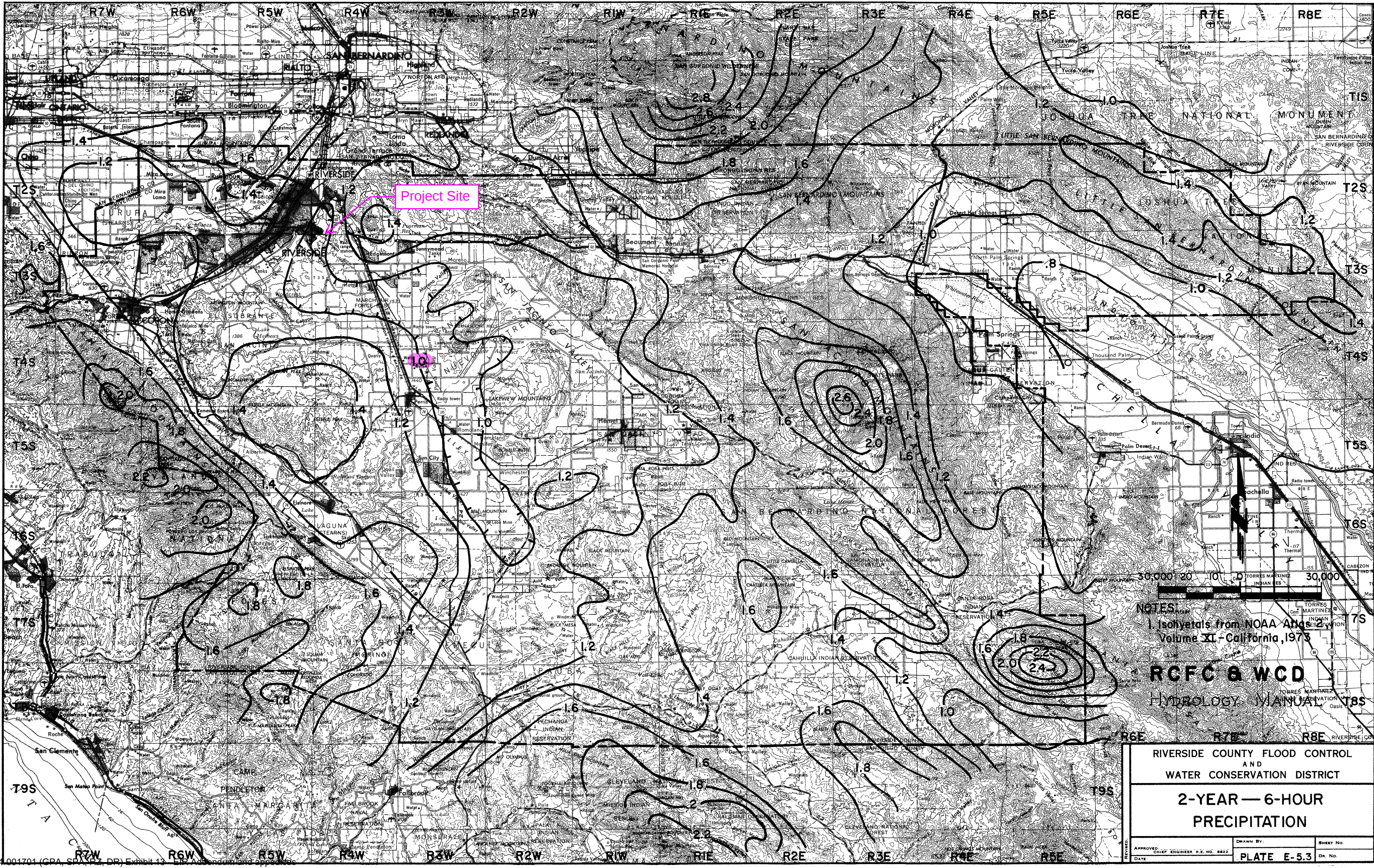




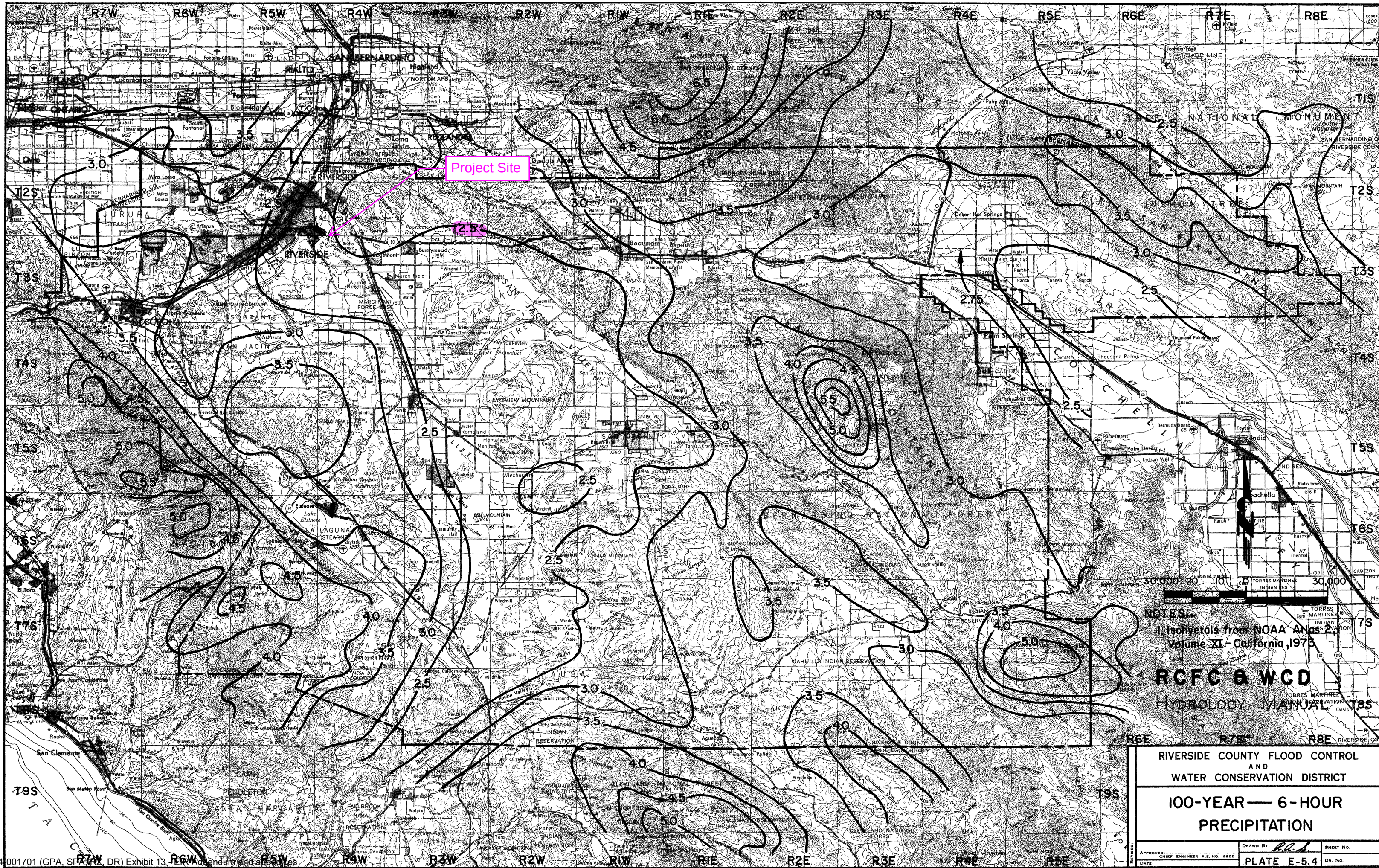
Project Site

NOTES:
1. Isohyets from NOAA Atlas-2, Volume XI - California, 1973

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HYDROLOGY MANUAL

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
**2-YEAR — 6-HOUR
PRECIPITATION**

APPROVED: CHIEF ENGINEER R.E. NO. 8822	DRAWN BY:	SHEET NO.
DATE:	PLATE E-5.3	DR. NO.



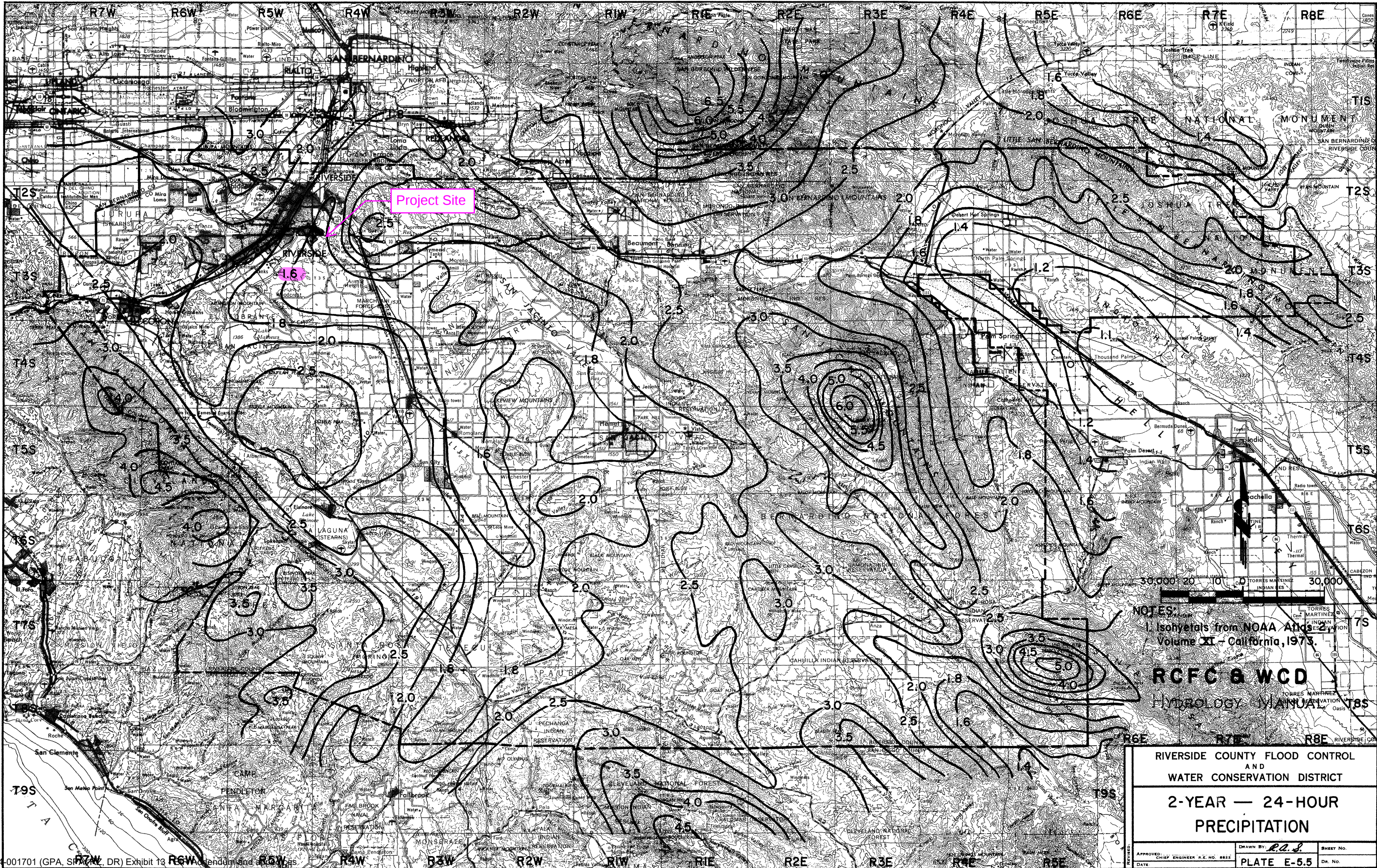
Project Site

NOTES:
1. Isohyets from NOAA Atlas 2,
Volume XI - California, 1973

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RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
**100-YEAR — 6-HOUR
PRECIPITATION**

APPROVED	CHIEF ENGINEER R.E. NO. 882	DRAWN BY	R.A.A.	SHEET NO.
DATE		PLATE	E-5.4	DR. NO.



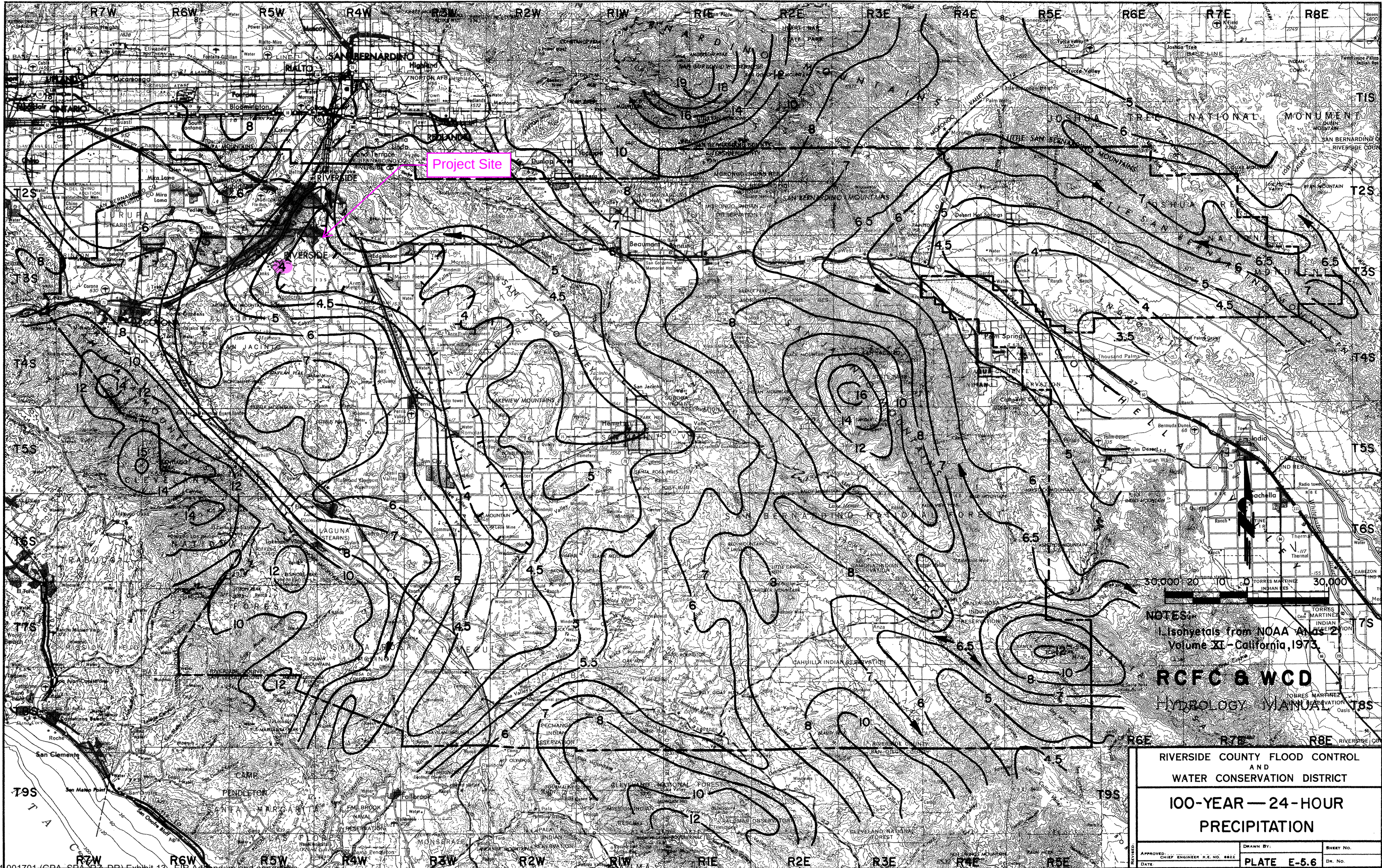
Project Site

NOTES:
1. Isohyets from NOAA Atlas 2,
Volume XI - California, 1973.

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HYDROLOGY MANUAL

RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT
**2-YEAR — 24-HOUR
PRECIPITATION**

APPROVED: CHIEF ENGINEER R.E. NO. 8822	DRAWN BY: <i>L.A.S.</i>	SHEET NO.
DATE	PLATE E-5.5	DR. NO.



RUNOFF INDEX NUMBERS OF HYDROLOGIC SOIL-COVER COMPLEXES FOR PERVIOUS AREAS-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group			
		A	B	C	D
<u>NATURAL COVERS -</u>					
Barren (Rockland, eroded and graded land)		78	86	91	93
Chaparrel, Broadleaf (Manzonita, ceanothus and scrub oak)	Poor	53	70	80	85
	Fair	40	63	75	81
	Good	31	57	71	78
Chaparrel, Narrowleaf (Chamise and redshank)	Poor	71	82	88	91
	Fair	55	72	81	86
Grass, Annual or Perennial	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Meadows or Cienegas (Areas with seasonally high water table, principal vegetation is sod forming grass)	Poor	63	77	85	88
	Fair	51	70	80	84
	Good	30	58	72	78
Open Brush (Soft wood shrubs - buckwheat, sage, etc.)	Poor	62	76	84	88
	Fair	46	66	77	83
	Good	41	63	75	81
Woodland (Coniferous or broadleaf trees predominate. Canopy density is at least 50 percent)	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	28	55	70	77
Woodland, Grass (Coniferous or broadleaf trees with canopy density from 20 to 50 percent)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
<u>URBAN COVERS -</u>					
Residential or Commercial Landscaping (Lawn, shrubs, etc.)	Good	32	56	69	75
Turf (Irrigated and mowed grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
<u>AGRICULTURAL COVERS -</u>					
Fallow (Land plowed but not tilled or seeded)		76	85	90	92

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**RUNOFF INDEX NUMBERS
FOR
PERVIOUS AREAS**

RUNOFF INDEX NUMBERS OF HYDROLOGIC SOIL-COVER COMPLEXES FOR PERVIOUS AREAS-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group			
		A	B	C	D
<u>AGRICULTURAL COVERS</u> (cont.) -					
Legumes, Close Seeded (Alfalfa, sweetclover, timothy, etc.)	Poor	66	77	85	89
	Good	58	72	81	85
Orchards, Deciduous (Apples, apricots, pears, walnuts, etc.)		See Note 4			
Orchards, Evergreen (Citrus, avocados, etc.)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
Pasture, Dryland (Annual grasses)	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Pasture, Irrigated (Legumes and perennial grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
Row Crops (Field crops - tomatoes, sugar beets, etc.)	Poor	72	81	88	91
	Good	67	78	85	89
Small Grain (Wheat, oats, barley, etc.)	Poor	65	76	84	88
	Good	63	75	83	87
Vineyard		See Note 4			

Notes:

1. All runoff index (RI) numbers are for Antecedent Moisture Condition (AMC) II.
2. Quality of cover definitions:
 Poor-Heavily grazed or regularly burned areas. Less than 50 percent of the ground surface is protected by plant cover or brush and tree canopy.
 Fair-Moderate cover with 50 percent to 75 percent of the ground surface protected.
 Good-Heavy or dense cover with more than 75 percent of the ground surface protected.
3. See Plate C-2 for a detailed description of cover types.
4. Use runoff index numbers based on ground cover type. See discussion under "Cover Type Descriptions" on Plate C-2.
5. Reference Bibliography item 17.

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HYDROLOGY MANUAL

**RUNOFF INDEX NUMBERS
FOR
PERVIOUS AREAS**

ACTUAL IMPERVIOUS COVER

Land Use (1)	Range-Percent	Recommended Value For Average Conditions-Percent (2)
Natural or Agriculture	0 - 10	0
Single Family Residential: (3)		
40,000 S. F. (1 Acre) Lots	10 - 25	20
20,000 S. F. ($\frac{1}{2}$ Acre) Lots	30 - 45	40
7,200 - 10,000 S. F. Lots	45 - 55	50
Multiple Family Residential:		
Condominiums	45 - 70	65
Apartments	65 - 90	80
Mobile Home Park	60 - 85	75
Commercial, Downtown Business or Industrial	80 -100	90

Notes:

1. Land use should be based on ultimate development of the watershed. Long range master plans for the County and incorporated cities should be reviewed to insure reasonable land use assumptions.
2. Recommended values are based on average conditions which may not apply to a particular study area. The percentage impervious may vary greatly even on comparable sized lots due to differences in dwelling size, improvements, etc. Landscape practices should also be considered as it is common in some areas to use ornamental gravels underlain by impervious plastic materials in place of lawns and shrubs. A field investigation of a study area should always be made, and a review of aerial photos, where available may assist in estimating the percentage of impervious cover in developed areas.
3. For typical horse ranch subdivisions increase impervious area 5 percent over the values recommended in the table above.

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**IMPERVIOUS COVER
FOR
DEVELOPED AREAS**

Appendix D - Rainfall Data



NOAA Atlas 14, Volume 6, Version 2
Location name: Riverside, California, USA*
Latitude: 33.9773°, Longitude: -117.384°
Elevation: 791 ft**
* source: ESRI Maps
** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

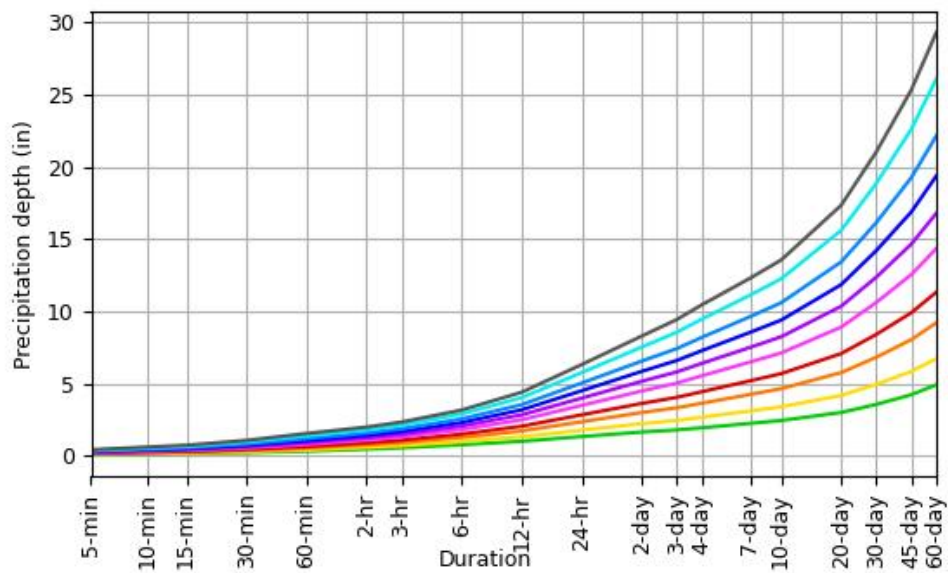
PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.090 (0.075-0.109)	0.115 (0.096-0.140)	0.150 (0.125-0.182)	0.180 (0.148-0.220)	0.222 (0.177-0.282)	0.256 (0.199-0.332)	0.292 (0.222-0.388)	0.331 (0.244-0.453)	0.386 (0.273-0.552)	0.431 (0.294-0.639)
10-min	0.129 (0.107-0.156)	0.165 (0.138-0.200)	0.215 (0.179-0.262)	0.258 (0.212-0.316)	0.318 (0.253-0.404)	0.367 (0.286-0.476)	0.418 (0.318-0.557)	0.474 (0.349-0.649)	0.553 (0.391-0.791)	0.618 (0.421-0.916)
15-min	0.156 (0.130-0.188)	0.200 (0.167-0.242)	0.260 (0.216-0.316)	0.312 (0.257-0.382)	0.385 (0.306-0.488)	0.444 (0.345-0.575)	0.506 (0.384-0.673)	0.573 (0.423-0.785)	0.669 (0.472-0.957)	0.747 (0.509-1.11)
30-min	0.225 (0.188-0.272)	0.289 (0.241-0.350)	0.376 (0.312-0.457)	0.450 (0.371-0.552)	0.556 (0.442-0.705)	0.641 (0.499-0.832)	0.731 (0.555-0.973)	0.828 (0.611-1.14)	0.967 (0.683-1.38)	1.08 (0.736-1.60)
60-min	0.325 (0.271-0.393)	0.416 (0.347-0.505)	0.542 (0.451-0.659)	0.649 (0.535-0.796)	0.801 (0.638-1.02)	0.924 (0.720-1.20)	1.06 (0.801-1.40)	1.19 (0.881-1.64)	1.39 (0.984-1.99)	1.56 (1.06-2.31)
2-hr	0.467 (0.389-0.565)	0.595 (0.496-0.721)	0.766 (0.637-0.931)	0.908 (0.749-1.11)	1.10 (0.880-1.40)	1.26 (0.981-1.63)	1.42 (1.08-1.89)	1.59 (1.17-2.17)	1.82 (1.28-2.60)	2.00 (1.36-2.96)
3-hr	0.565 (0.471-0.683)	0.719 (0.600-0.872)	0.924 (0.768-1.12)	1.09 (0.901-1.34)	1.32 (1.05-1.68)	1.50 (1.17-1.95)	1.69 (1.28-2.25)	1.88 (1.39-2.58)	2.14 (1.51-3.06)	2.35 (1.60-3.48)
6-hr	0.775 (0.647-0.938)	0.993 (0.828-1.20)	1.28 (1.06-1.55)	1.51 (1.24-1.85)	1.83 (1.45-2.32)	2.07 (1.61-2.68)	2.32 (1.76-3.08)	2.57 (1.89-3.52)	2.91 (2.06-4.16)	3.18 (2.16-4.71)
12-hr	1.02 (0.848-1.23)	1.33 (1.10-1.61)	1.73 (1.44-2.10)	2.06 (1.70-2.52)	2.50 (1.99-3.18)	2.85 (2.22-3.69)	3.19 (2.42-4.25)	3.55 (2.62-4.86)	4.03 (2.85-5.77)	4.41 (3.00-6.53)
24-hr	1.34 (1.19-1.55)	1.78 (1.58-2.06)	2.37 (2.09-2.74)	2.85 (2.49-3.32)	3.50 (2.96-4.22)	4.00 (3.32-4.92)	4.51 (3.66-5.69)	5.04 (3.98-6.53)	5.76 (4.36-7.77)	6.33 (4.63-8.82)
2-day	1.66 (1.46-1.91)	2.24 (1.98-2.58)	3.00 (2.65-3.48)	3.63 (3.18-4.24)	4.50 (3.81-5.42)	5.17 (4.29-6.36)	5.85 (4.74-7.37)	6.56 (5.17-8.50)	7.54 (5.70-10.2)	8.30 (6.07-11.6)
3-day	1.80 (1.60-2.08)	2.46 (2.18-2.84)	3.34 (2.94-3.86)	4.06 (3.55-4.73)	5.04 (4.27-6.08)	5.82 (4.82-7.15)	6.61 (5.35-8.32)	7.43 (5.86-9.62)	8.56 (6.48-11.5)	9.44 (6.91-13.2)
4-day	1.95 (1.72-2.24)	2.68 (2.37-3.09)	3.65 (3.21-4.22)	4.44 (3.89-5.19)	5.55 (4.70-6.68)	6.40 (5.31-7.88)	7.28 (5.90-9.18)	8.20 (6.47-10.6)	9.46 (7.16-12.8)	10.5 (7.65-14.6)
7-day	2.26 (2.00-2.60)	3.12 (2.75-3.60)	4.26 (3.75-4.93)	5.20 (4.55-6.07)	6.50 (5.50-7.83)	7.51 (6.23-9.24)	8.55 (6.93-10.8)	9.64 (7.60-12.5)	11.1 (8.42-15.0)	12.3 (9.00-17.2)
10-day	2.45 (2.17-2.83)	3.40 (3.00-3.92)	4.65 (4.10-5.39)	5.69 (4.98-6.64)	7.13 (6.03-8.59)	8.24 (6.84-10.1)	9.40 (7.61-11.8)	10.6 (8.35-13.7)	12.3 (9.27-16.5)	13.6 (9.92-18.9)
20-day	3.01 (2.66-3.47)	4.19 (3.70-4.83)	5.77 (5.08-6.67)	7.08 (6.19-8.26)	8.91 (7.55-10.7)	10.4 (8.59-12.7)	11.9 (9.60-14.9)	13.4 (10.6-17.4)	15.6 (11.8-21.0)	17.3 (12.7-24.2)
30-day	3.56 (3.16-4.11)	4.95 (4.38-5.72)	6.83 (6.02-7.91)	8.41 (7.35-9.81)	10.6 (8.99-12.8)	12.4 (10.3-15.2)	14.2 (11.5-17.9)	16.1 (12.7-20.9)	18.9 (14.3-25.4)	21.0 (15.4-29.3)
45-day	4.24 (3.75-4.89)	5.85 (5.17-6.75)	8.05 (7.10-9.32)	9.91 (8.67-11.6)	12.5 (10.6-15.1)	14.7 (12.2-18.0)	16.9 (13.7-21.3)	19.3 (15.2-24.9)	22.6 (17.1-30.5)	25.3 (18.5-35.3)
60-day	4.92 (4.35-5.67)	6.73 (5.95-7.77)	9.21 (8.12-10.7)	11.3 (9.91-13.2)	14.3 (12.1-17.3)	16.8 (13.9-20.6)	19.4 (15.7-24.4)	22.1 (17.4-28.7)	26.1 (19.7-35.2)	29.3 (21.4-40.8)
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.										

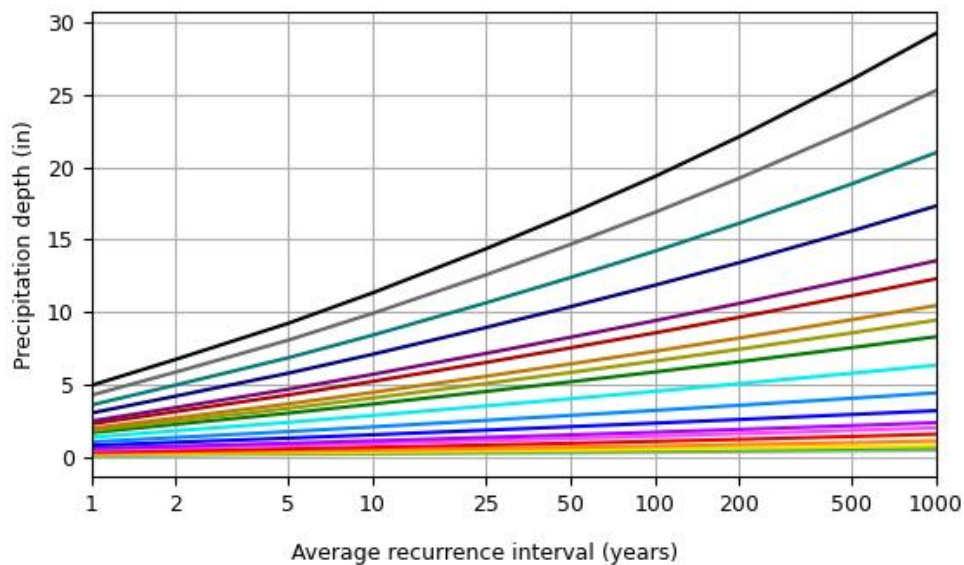
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PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 33.9773°, Longitude: -117.3840°



Average recurrence interval (years)
1
2
5
10
25
50
100
200
500
1000



Duration	
5-min	2-day
10-min	3-day
15-min	4-day
30-min	7-day
60-min	10-day
2-hr	20-day
3-hr	30-day
6-hr	45-day
12-hr	60-day
24-hr	

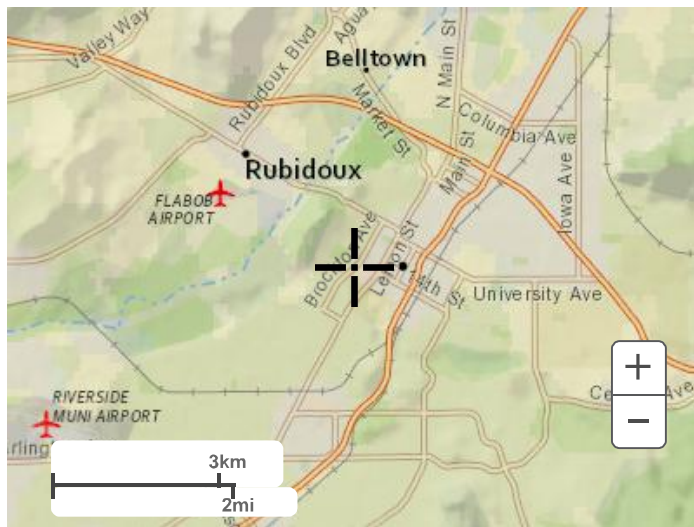
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Maps & aerials

Small scale terrain



Large scale terrain



Large scale map



Large scale aerial



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1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

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NOAA Atlas 14, Volume 6, Version 2
Location name: **Riverside, California, USA***
Latitude: **33.9773°**, Longitude: **-117.384°**
Elevation: **791 ft****
* source: ESRI Maps
** source: USGS



POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

[PF tabular](#) | [PF graphical](#) | [Maps & aerals](#)

PF tabular

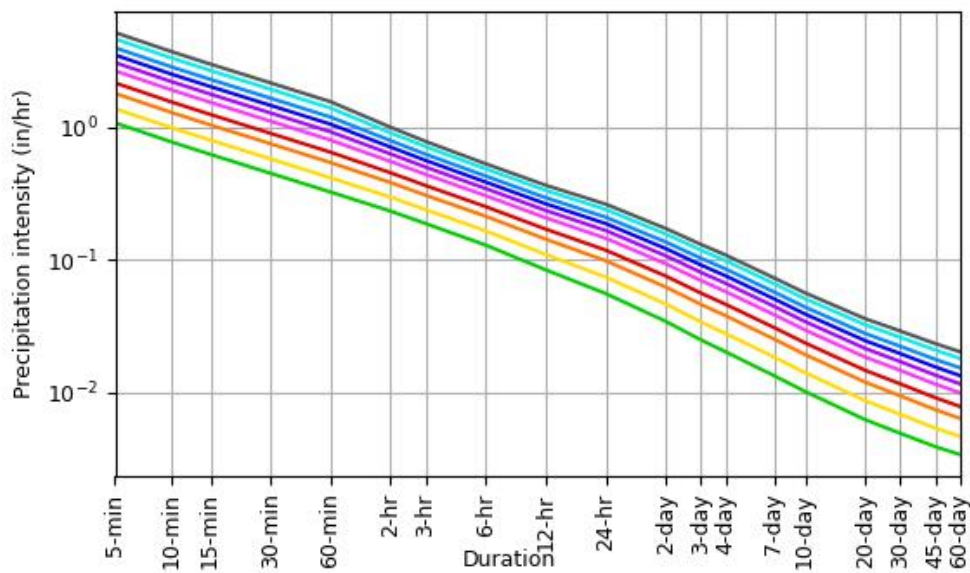
PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches/hour) ¹										
Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	1.08 (0.900-1.31)	1.38 (1.15-1.68)	1.80 (1.50-2.18)	2.16 (1.78-2.64)	2.66 (2.12-3.38)	3.07 (2.39-3.98)	3.50 (2.66-4.66)	3.97 (2.93-5.44)	4.63 (3.28-6.62)	5.17 (3.53-7.67)
10-min	0.774 (0.642-0.936)	0.990 (0.828-1.20)	1.29 (1.07-1.57)	1.55 (1.27-1.90)	1.91 (1.52-2.42)	2.20 (1.72-2.86)	2.51 (1.91-3.34)	2.84 (2.09-3.89)	3.32 (2.35-4.75)	3.71 (2.53-5.50)
15-min	0.624 (0.520-0.752)	0.800 (0.668-0.968)	1.04 (0.864-1.26)	1.25 (1.03-1.53)	1.54 (1.22-1.95)	1.78 (1.38-2.30)	2.02 (1.54-2.69)	2.29 (1.69-3.14)	2.68 (1.89-3.83)	2.99 (2.04-4.43)
30-min	0.450 (0.376-0.544)	0.578 (0.482-0.700)	0.752 (0.624-0.914)	0.900 (0.742-1.10)	1.11 (0.884-1.41)	1.28 (0.998-1.66)	1.46 (1.11-1.95)	1.66 (1.22-2.27)	1.93 (1.37-2.77)	2.16 (1.47-3.20)
60-min	0.325 (0.271-0.393)	0.416 (0.347-0.505)	0.542 (0.451-0.659)	0.649 (0.535-0.796)	0.801 (0.638-1.02)	0.924 (0.720-1.20)	1.06 (0.801-1.40)	1.19 (0.881-1.64)	1.39 (0.984-1.99)	1.56 (1.06-2.31)
2-hr	0.233 (0.194-0.282)	0.297 (0.248-0.360)	0.383 (0.318-0.465)	0.454 (0.374-0.557)	0.552 (0.440-0.701)	0.630 (0.490-0.817)	0.709 (0.538-0.944)	0.793 (0.585-1.09)	0.908 (0.641-1.30)	1.00 (0.681-1.48)
3-hr	0.188 (0.156-0.227)	0.239 (0.199-0.290)	0.307 (0.255-0.374)	0.363 (0.300-0.446)	0.441 (0.350-0.559)	0.500 (0.389-0.650)	0.562 (0.426-0.748)	0.626 (0.461-0.857)	0.713 (0.503-1.02)	0.781 (0.532-1.16)
6-hr	0.129 (0.108-0.156)	0.165 (0.138-0.201)	0.213 (0.177-0.259)	0.252 (0.207-0.309)	0.305 (0.242-0.387)	0.345 (0.269-0.448)	0.386 (0.293-0.514)	0.429 (0.316-0.587)	0.486 (0.343-0.695)	0.530 (0.361-0.786)
12-hr	0.084 (0.070-0.102)	0.110 (0.091-0.133)	0.143 (0.119-0.174)	0.170 (0.140-0.209)	0.207 (0.165-0.263)	0.236 (0.184-0.306)	0.265 (0.201-0.352)	0.294 (0.217-0.403)	0.334 (0.236-0.478)	0.365 (0.249-0.542)
24-hr	0.055 (0.049-0.064)	0.074 (0.065-0.085)	0.098 (0.087-0.114)	0.118 (0.103-0.138)	0.145 (0.123-0.175)	0.166 (0.138-0.205)	0.188 (0.152-0.236)	0.210 (0.165-0.272)	0.240 (0.181-0.323)	0.263 (0.192-0.367)
2-day	0.034 (0.030-0.039)	0.046 (0.041-0.053)	0.062 (0.055-0.072)	0.075 (0.066-0.088)	0.093 (0.079-0.112)	0.107 (0.089-0.132)	0.121 (0.098-0.153)	0.136 (0.107-0.176)	0.156 (0.118-0.211)	0.172 (0.126-0.240)
3-day	0.025 (0.022-0.028)	0.034 (0.030-0.039)	0.046 (0.040-0.053)	0.056 (0.049-0.065)	0.070 (0.059-0.084)	0.080 (0.067-0.099)	0.091 (0.074-0.115)	0.103 (0.081-0.133)	0.118 (0.089-0.160)	0.131 (0.095-0.182)
4-day	0.020 (0.017-0.023)	0.027 (0.024-0.032)	0.037 (0.033-0.043)	0.046 (0.040-0.054)	0.057 (0.048-0.069)	0.066 (0.055-0.082)	0.075 (0.061-0.095)	0.085 (0.067-0.110)	0.098 (0.074-0.132)	0.108 (0.079-0.151)
7-day	0.013 (0.011-0.015)	0.018 (0.016-0.021)	0.025 (0.022-0.029)	0.030 (0.027-0.036)	0.038 (0.032-0.046)	0.044 (0.037-0.055)	0.050 (0.041-0.064)	0.057 (0.045-0.074)	0.066 (0.050-0.089)	0.073 (0.053-0.102)
10-day	0.010 (0.009-0.011)	0.014 (0.012-0.016)	0.019 (0.017-0.022)	0.023 (0.020-0.027)	0.029 (0.025-0.035)	0.034 (0.028-0.042)	0.039 (0.031-0.049)	0.044 (0.034-0.057)	0.051 (0.038-0.068)	0.056 (0.041-0.078)
20-day	0.006 (0.005-0.007)	0.008 (0.007-0.010)	0.012 (0.010-0.013)	0.014 (0.012-0.017)	0.018 (0.015-0.022)	0.021 (0.017-0.026)	0.024 (0.019-0.031)	0.027 (0.022-0.036)	0.032 (0.024-0.043)	0.036 (0.026-0.050)
30-day	0.004 (0.004-0.005)	0.006 (0.006-0.007)	0.009 (0.008-0.010)	0.011 (0.010-0.013)	0.014 (0.012-0.017)	0.017 (0.014-0.021)	0.019 (0.015-0.024)	0.022 (0.017-0.029)	0.026 (0.019-0.035)	0.029 (0.021-0.040)
45-day	0.003 (0.003-0.004)	0.005 (0.004-0.006)	0.007 (0.006-0.008)	0.009 (0.008-0.010)	0.011 (0.009-0.014)	0.013 (0.011-0.016)	0.015 (0.012-0.019)	0.017 (0.014-0.023)	0.020 (0.015-0.028)	0.023 (0.017-0.032)
60-day	0.003 (0.003-0.003)	0.004 (0.004-0.005)	0.006 (0.005-0.007)	0.007 (0.006-0.009)	0.009 (0.008-0.012)	0.011 (0.009-0.014)	0.013 (0.010-0.016)	0.015 (0.012-0.019)	0.018 (0.013-0.024)	0.020 (0.014-0.028)
¹ Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS). Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values. Please refer to NOAA Atlas 14 document for more information.										

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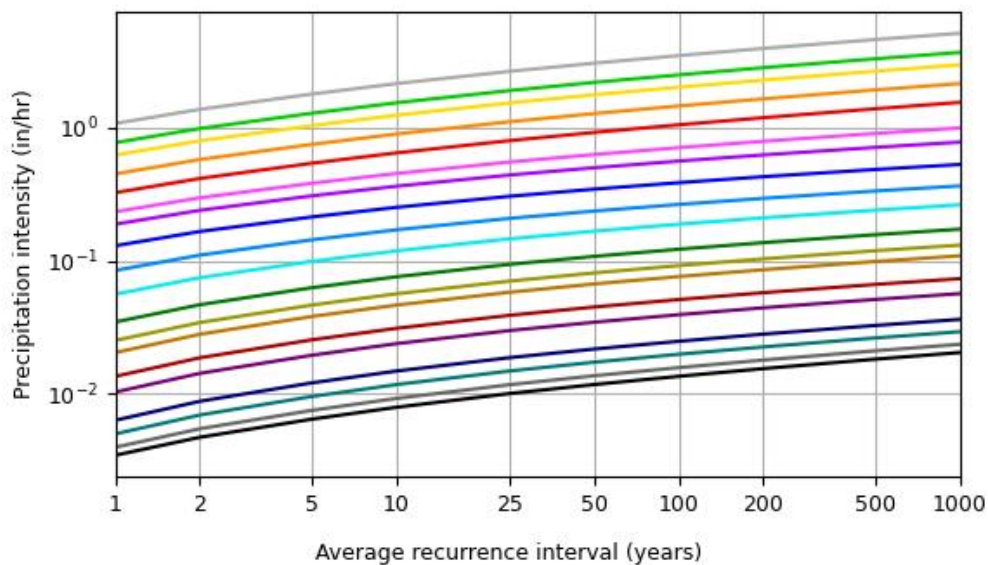
PF graphical

PDS-based intensity-duration-frequency (IDF) curves

Latitude: 33.9773°, Longitude: -117.3840°



Average recurrence interval (years)
1
2
5
10
25
50
100
200
500
1000



Duration	
5-min	2-day
10-min	3-day
15-min	4-day
30-min	7-day
60-min	10-day
2-hr	20-day
3-hr	30-day
6-hr	45-day
12-hr	60-day
24-hr	

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Maps & aerials

Small scale terrain