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State Water Survey Division  
Department of Registration and Education  
Urbana, Illinois

STATE WATER SURVEY DIVISION  
PEORIA LABORATORY  
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PEORIA, ILLINOIS

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The Water Survey reopened the Goose Creek rain-gage network in April 1954 for the purpose of measuring the warm season rainfall over the area. This is a summary of the data collected during the growing season of May to October.

The sixty-eight raingages were put into operation in April, and a permanent record was started on 1 May. The entire network remained open until 30 August, then the number of gages in operation was reduced to twenty-eight. This reduced network will be in operation until December before being reduced further for the winter months.

The records indicate that August was the wettest month with a mean rainfall amount of 5.83 inches, and July the driest with a mean of 2.27. There were 15 rainstorms recorded in May; 24 in June; 10 in July; and 22 in August. Sometimes we record the rainfall on a particular date as more than one rainstorm. This occurs whenever a period of one hour or more passes between individual rainstorms. The days of rainfall were as follows: 11 in May, 16 in June, 8 in July and 19 in August. Figure 1 is an isohyetal map for the four months. From the map, it can be seen that the northern portion received only about 10-inches while the southcentral portion received over 17-inches.

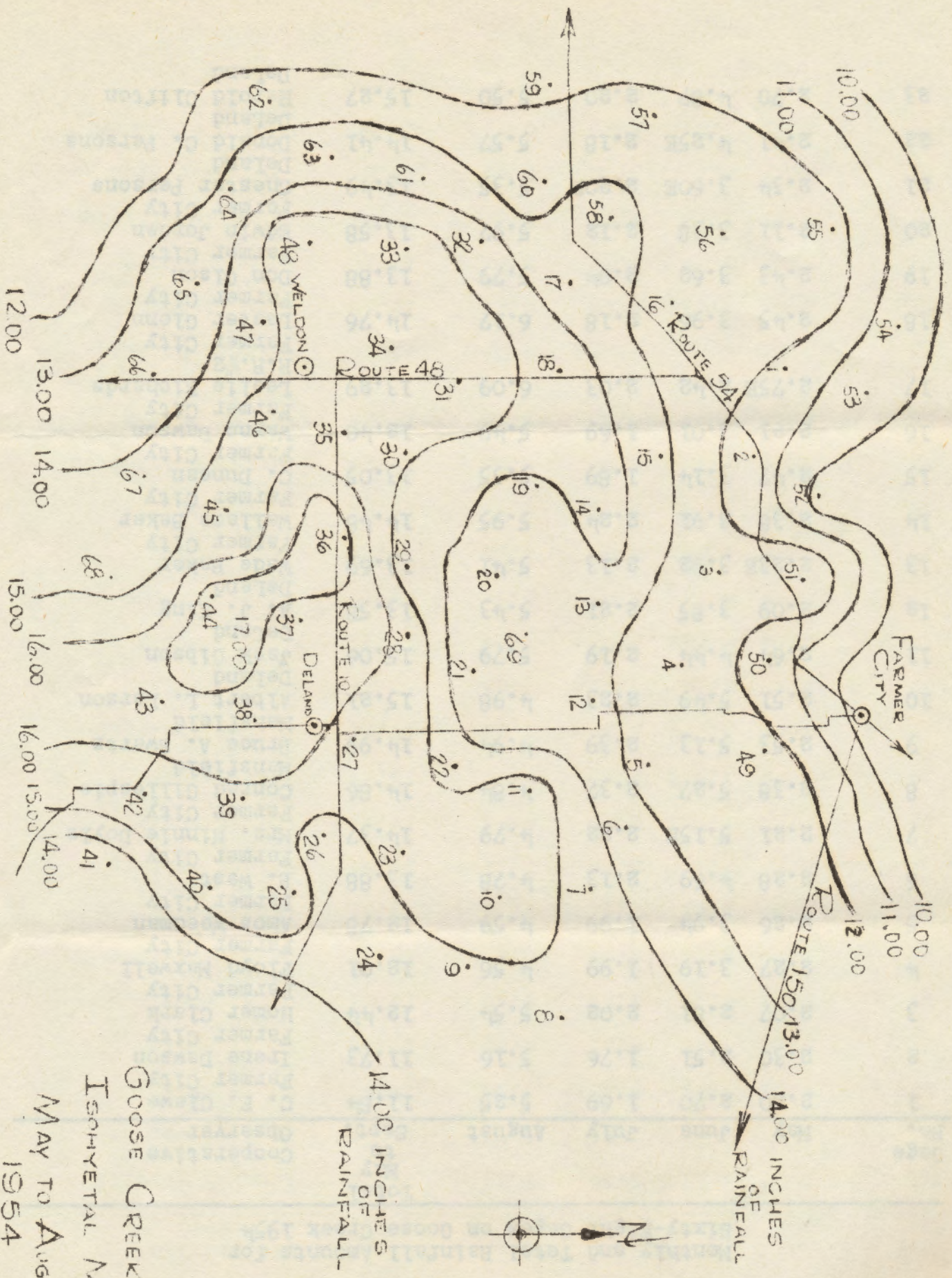
One can see that an individual raingage only records the rainfall at that immediate area. This variability in rainfall is expected in warm season rainstorms. The attached table indicates the rainfall for all stations by months, the total for the four months, and the name of the cooperative observer.

September was the driest September on record in east-central Illinois. Rainfall amounts over the network averaged 0.26 inches. The September drought area extended from Watseka to Chenoa to Clinton to Paris and probably into Indiana.

The Water Survey plans to reopen the raingage network in the spring in order to collect additional data concerning variability of rainfall in central Illinois.

Your cooperation in watching the equipment is greatly appreciated. If at any time you note any irregularities in the equipment or it interferes in any way with the crops, road grading etc., please contact us collect at Champaign, 6-6421.

M. Spock, Jr.,  
Meteorologist



GOOSE CREEK AREA  
 ISOHYETAL MAP  
 MAY TO AUGUST  
 1954

TABLE I

Monthly and Total Rainfall Amounts for  
Sixty-Eight Gages on Goose Creek 1954

Gage No.	May	June	July	August	Total May to Sept.	Cooperative Observer
1	2.20	2.70	1.69	5.25	11.84	C. F. Clawe Farmer City
2	2.30	2.51	1.76	5.16	11.73	Irene Dawson Farmer City
3	2.07	2.81	2.02	5.54	12.44	Homer Clark Farmer City
4	2.27	3.19	1.99	4.56	12.01	Floyd Maxwell Farmer City
5	2.26	3.94	1.99	4.59	12.78	Amos Weedman Farmer City
6	2.28	4.69	2.13	4.78	13.88	E. West Farmer City
7	2.21	5.15E	2.22	4.79	14.37	Mrs. Minnie Doyle Farmer City
8	2.38	5.27	2.37	4.84	14.86	Conrad Gillespie Mansfield
9	2.53	5.13	2.39	4.94	14.99	Bruce A. Swartz Mansfield
10	2.51	5.49	2.23	4.98	15.21	Albert L. Larson DeLand
11	2.64	4.44	2.19	5.79	15.06	Jack Gibson DeLand
12	2.09	3.85	2.21	5.43	13.58	A. J. King DeLand
13	2.23E	3.92	2.13	5.41	13.69	Wade Baker Farmer City
14	2.38	3.91	2.24	5.95	14.48	Wallace Baker Farmer City
15	2.47	3.14	1.89	5.55	13.05	C. Duncan Farmer City
16	2.21	3.01	1.69	5.49	12.40	Wayne Dawson Farmer City
17	2.75E	2.42	2.03	6.09	13.29	Leslie Richards R.R.#2 Farmer City
18	2.45	3.96	2.18	6.17	14.76	Lester Glenn Farmer City
19	2.43	3.62	2.04	5.79	13.88	Don Olson Farmer City
20	2.11	3.38	2.12	5.97	13.58	Edwin Jordan Farmer City
21	2.34	3.60E	2.20E	5.35	13.49	Chester Persons DeLand
22	2.41	4.25E	2.18	5.57	14.41	Donald C. Persons DeLand
23	2.70	4.87	2.20	5.50	15.27	Harold Clifton DeLand

Gage No.	May	June	July	August	Total May to Sept.	Cooperative Observer
24	3.08	4.23	1.96	5.13	14.40	Kenneth Troxell DeLand
25	3.44	4.68	2.15	5.48	15.75	W. F. Dyson DeLand
26	2.53	4.69	2.16	5.10	14.48	L. Trimble DeLand
27	2.38	4.76	2.61	5.65	15.40	C. A. White DeLand
28	2.70	4.14	2.71	6.28	15.83	C. R. Roos DeLand
29	1.96	3.61	2.64	6.13	14.34	Dean Wisegarver DeLand
30	2.30	2.93	2.51	7.32	15.06	Lloyd Reeser Weldon
31	2.37	3.47	2.49	7.11	15.44	Oliver Walters Weldon
32	2.73E	2.90E	2.33	6.65	14.61	Derwin Musik R.R. #1, DeWitt
33	2.76	3.50E	2.20	7.28	15.74	Zeke Reeser Weldon
34	2.84	3.20E	2.54	7.23	15.81	Walter Dressler DeLand
35	2.34	2.75	3.03	7.25	15.37	Frank Pearl Weldon
36	2.72	4.22	3.07	7.34	17.35	Ronald Baker DeLand
37	2.46	4.72	2.64	6.34	16.16	P. E. McBride Weldon
38	2.62	5.25	2.40	6.22	16.49	Glenn Smith DeLand
39	2.62	5.09	2.33	5.88	15.92	C. Norton DeLand
40	3.19	3.97	1.98	6.06	15.20	Florence Kirkland Monticello
41	2.61	2.11	2.45	6.58	13.75	George Haynes Monticello (Kerby Hospital Farm)
42	3.00	2.76	2.77	6.88	15.41	Melford Husinga DeLand
43	2.81	3.64	3.00	6.72	16.17	John Lieschner DeLand
44	2.70	5.04	2.70	6.74	17.18	Loren Clemons DeLand
45	2.36	3.79	2.50	6.37	15.02	Vernelle Lieschner Weldon
46	2.53	2.74	3.09	6.85	15.21	Carl Sweringen Weldon
47	2.13	3.04	2.70	6.73	14.60	Donald E. McHenry Weldon

Gage No.	May	June	July	August	Total May to Sept.	Cooperative Observer
48	2.29	3.75	2.45	7.00	15.49	Mike Seal Cisco
49	1.88	3.69	2.22	4.65	12.44	Thomas Beasley
50	1.89	2.87	1.88	4.38	11.02	John Isaacs, R.R.#3, Farmer City
51	2.55	2.90	2.07	4.72	12.44	Oscar Scott, R.R.#2, Farmer City
52	1.96	1.79	1.49	4.21	9.45	V. L. Parrill R.#2, Farmer City
53	1.97	2.23	1.86	4.78	10.84	Pat Kurk Farmer City
54	2.10E	2.00E	1.65	5.13	10.78	Morries Parr Farmer City
55	2.38	2.29	1.73	5.70	12.10	Helen Feicke Route #1, DeWitt
56	2.45E	2.76	1.96	5.49	12.66	Jay J. Larry R.R.#2, Farmer City
57	2.08	2.60E	1.93	5.79	12.40	Wm. M. Nixon R.#1, DeWitt
58	2.41	3.73	1.88	5.26	13.28	Ed Callison, R.#2 Farmer City
59	1.80	2.37	2.00E	5.80E	11.97	J. E. Freese, R.R.#3 Clinton
60	1.90	2.88	2.13	5.53	12.44	O. R. Dyrer DeWitt
61	2.00E	2.40E	2.08	7.15	13.63	Ray Strange, R.R.#1 DeWitt
62	2.08	2.40	2.21	5.60	12.29	Irvin Cowles, R.R.#4 Clinton
63	1.91	2.39	2.38	6.58	13.26	Lester Riddle Weldon
64	2.37	2.75E	2.22	5.75E	13.09	Herman Eller, R.R.#4 Clinton
65	2.39	3.23	2.18	5.73	13.53	Vaughn Hopkins, R.R.#1, Weldon
66	2.20E	2.25E	2.82	5.85E	13.12	Sen. Davis Bloomington
67	2.17	3.25	2.81	6.50	14.73	E. Walpole Weldon
68	2.48	3.25E	3.23	5.97	14.93	Kenneth W. Jackson DeLand
69	2.20E	3.70E	2.20E	5.45E	13.55	Don Reeser R. R. 3 Farmer City