



Inflow Design Control System Plan

Unit 1 Bottom Ash Pond

Charles R. Lowman Power Plant

October 2026

Prepared for:



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CERTIFICATION PAGE

I hereby certify that, in my professional judgment, the components of this document and associated work satisfy the applicable requirements set forth in 40 CFR 257.82(a)(1), 40 CFR 257.82(a)(2), 40 CFR 257.82(b), 40 CFR 257.82(c), ADEM 335-13-15-.05(3)(c) and are consistent with generally accepted professional consulting principles and practices. The information submitted herein, to the best of my knowledge and belief, is true, accurate, and complete.

This document has been prepared based on available site assessment data and has been prepared for the Charles R. Lowman Power Plant in Leroy, Washington County, Alabama. This report should not be construed to apply to any other site.



Joseph R. Adams, P.E.
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2026-10-14

Date



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- Appendix B: Scenario 2 Results
- Appendix C: NOAA Atlas 14 Information

1.0 SCOPE OF SERVICES

PowerSouth Energy Cooperative (PowerSouth) requested Three Notch Group, Inc. (Three Notch Group) to perform analysis of Inflow Design Flood Controls in accordance with 40 CFR 257.82 of EPA's Disposal of Coal Combustion Residuals from Electric Utilities (CCR rule). In association with this scope of services, Three Notch Group performed Hydrologic and Hydraulic Capacity modeling of the plant's CCR impoundments and downstream hydraulic structures.

This report summarizes the modeling efforts intended to meet the requirements of the "Inflow Design Flood Control System Plan" for the Unit 1 Bottom Ash Pond. Charles R. Lowman Power Plant in Leroy, AL has three CCR impoundments that were investigated: Unit 1 Bottom Ash Pond, Unit 2/3 Bottom Ash Pond, and the FGD Waste Pond. As per the Rule, CCR surface impoundments must:

1. "Adequately manage flow into the CCR unit during and following the peak discharge of the inflow design flood" (40 CFR 257.82(a)(1)) (ADEM 335-13-15-.05(3)(c))
2. "Adequately manage flow from the CCR unit to collect and control the peak discharge resulting from the inflow design flood" (40 CFR 257.82(a)(2)) (ADEM 335-13-15-.05(3)(c))
3. "Discharge from the CCR unit must be handled in accordance with the surface water requirements under 40 CFR 257.3-3." (40 CFR 257.82(b)) (ADEM 335-13-15-.05(3)(c))

2.0 PROJECT DESCRIPTION

The Charles R. Lowman Power Plant in Leroy, AL has three CCR impoundments that were analyzed: Unit 1 Bottom Ash Pond, Unit 2/3 Bottom Ash Pond, and FGD Waste Pond. No discharge from the current plant enters any of the impoundments. For purposes of this analysis, flow from the Unit 2/3 Bottom Ash Pond and FGD Waste Pond is routed through the dewatering treatment system prior to discharge through permitted outfall DSN006. Flow from the Unit 1 Bottom Ash Pond is discharged directly to the discharge canal through permitted outfall DSN017. Scenarios were created to represent normal and abnormal operating conditions. The flow order to each pond is shown in Figure 2.1 below.

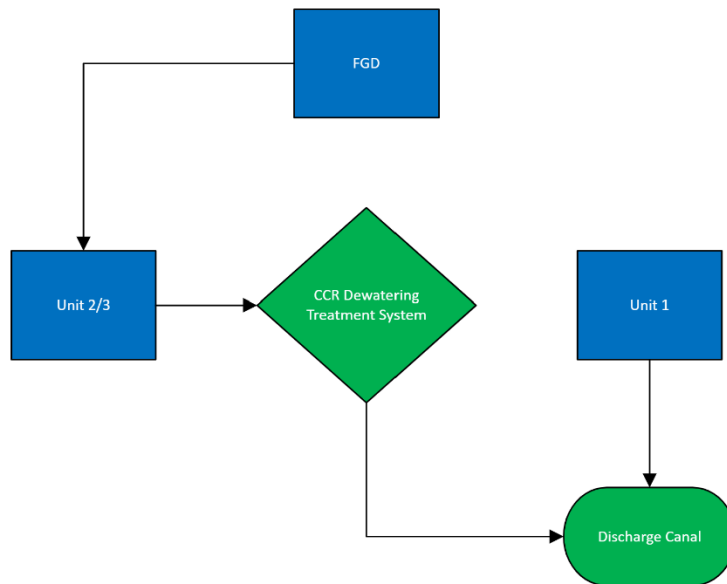


Figure 2.1 – Impoundments Flow Order

3.0 MODEL VARIABLES AND ASSUMPTIONS

3.1 Identification of Design Storm Inflow

As per the “Hazard Potential Classification Assessment,” each of the impoundments has a hazard classification of “Significant,” requiring that the impoundments be analyzed for the 1000-yr flood.

Based on a review of topographic information collected March 2026, it is evident that each impoundment has a contributing drainage shed that is primarily the impoundment itself. Therefore, the rainfall inflow for each impoundment is the volume of rainfall that accumulates in each impoundment during the inflow design flood event. These rainfall inflows are tied to a specific impoundment and storm duration and therefore do not change between model scenarios. The 72-hr, 1000-yr flood event was modeled for the rainfall event. Per the NOAA Atlas 14, the total rainfall for this event is 21.2 inches. NOAA Temporal distributions for 96hr events were used. All four Quartiles were modeled using the 50% values. A copy of the NOAA Atlas 14 data can be seen in Appendix C.

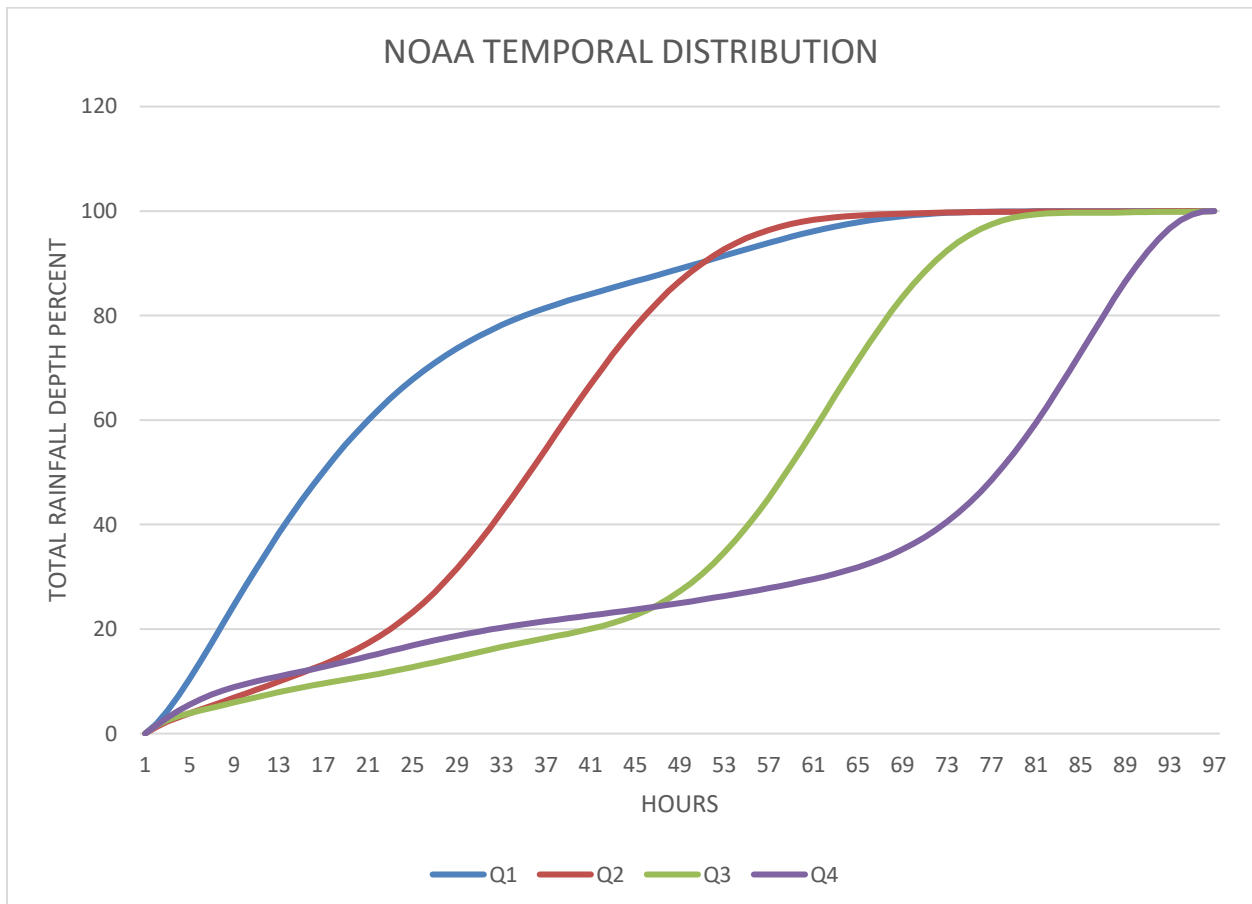


Figure 3.1 – NOAA Temporal Distributions

3.1.1 Unit 1 Bottom Ash Pond Additional Inflows

The pond no longer receives any process flows from the plant.

3.2 Characterization of Abstractions

3.2.1 Pond Detention

In developing the geometric modeling parameters for this project, Three Notch Group relied on topographic information and construction plans prepared by Stanley Engineering Company circa 1965 for work at the plant. Table 3.1 shows the stage-storage information used for modeling.

Table 3.1 Unit 1 Pond Elevation-Area Table

Elevation	Area-AC
10	6.10854
12	11.10794
14	12.36435
16	13.04715
18	13.58632
20	14.02883
22	14.41752
24	14.77505
26	15.1219
28	15.45895
30	15.79624
32	16.14584
34	16.55976

The Unit 1 Bottom Ash Pond starting water surface elevation was modeled as 10.0 feet. All elevations shown in the report reference to mean sea level (MSL).

3.2.2 Other Abstraction Values

As mentioned in Section 3.1, the ponds themselves constitute the primary drainage catchment areas. The pond has a normal pool elevation and because of the standing water the catchment is considered mainly impervious with a CN value of 98 or higher. No evapo-transpiration or infiltration was considered in the modeling efforts.

3.3 Selection of Run-off Model

The US Army Corps of Engineers Hydrologic Modeling System 4.13 (HEC-HMS) was chosen for use in this modeling effort. HEC-HMS is a widely known, used, and trusted modeling software for complete processing of dendritic watershed systems. This software is also compatible with other

associated studies at the site and is used for large scale hydrologic and hydraulic modeling of the Tombigbee River.

3.4 Identification and Characterization of Intake or Decant Structures

3.4.1 Unit 1 Bottom Ash Pond Intake/Decant Structures

The impoundment is drained by means of a diesel driven pump with a flow rating of 1530 gpm activated at the site's discretion. As such the impoundment was modeled allowing the pump to only operate when the pond reached an elevation of 31 feet or higher.

3.4.2 Supplemental Structures

If necessary, during high rainfall events mobile suction lift pumps are utilized at the site to evacuate the pond.

3.4.3 Downstream Hydraulic Structures

The Unit 1 Bottom Ash Pond is drained solely by pumping. As shown in Figure 2.1, all liquids extracted from the Unit 1 Bottom Ash Pond are conveyed to the discharge outfall. All liquids which are pumped to downstream hydraulic structures are handled in accordance with the surface water requirements under 40 CFR 257.3-3.

4.0 SCENARIOS AND RESULTS

4.1 Scenario 1 – Normal Operations

4.1.1 Scenario 1 Flow Diagram

Scenario 1 assumes that all the pond pumps are fully operational and that each pond has its contributing rainfall inflow. The figure below illustrates the flows for this scenario.

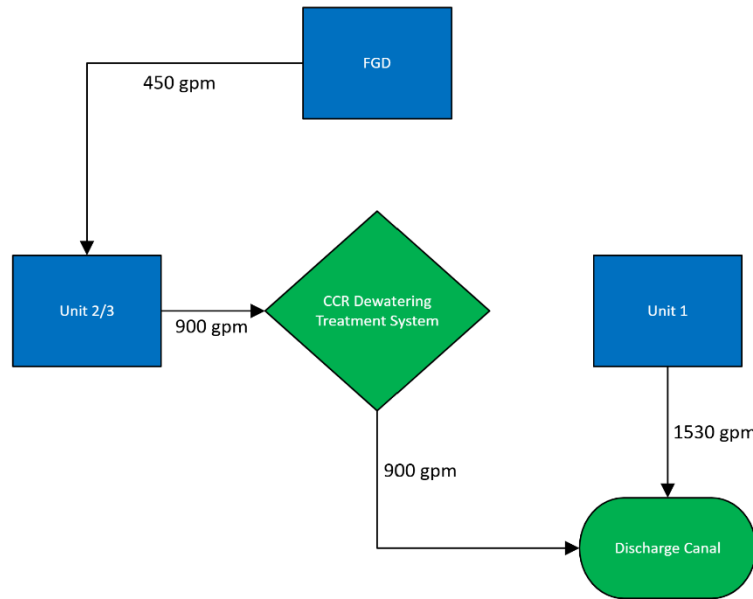


Figure 4.1 – Scenario 1 Flow Diagram

4.1.2 Scenario 1 Results

This scenario was modeled using HEC-HMS 4.13 with the above listed variables. The table below shows the results from the hydraulic model.

Table 4.1 – Scenario 1 Unit 1 Bottom Ash Pond Maximum Hydraulic Grades

Overtopping Elev: 35.0		Pass/Fail
	Max WSEL	
First Quartile	12.8	Pass
Second Quartile	12.8	Pass
Third Quartile	12.8	Pass
Fourth Quartile	12.8	Pass

4.2 Scenario 2 – Abnormal Operations

4.2.1 Scenario 2 Flow Diagram

Scenario 2 is intended to represent abnormal operations at the facility such as a loss of power, pumping failure, or other similar conditions. For this scenario, a pumping failure is assumed. It is also assumed that pumping operations will resume within 5 days of the rain event. Since all the ponds rely on pumping systems for outflow, failure would mean that the impoundments could not discharge inflows. It also means that the plant would not be producing an inflow because its operations would be ceased. Therefore, the only impoundment inflows are from the 72-hr inflow design flood event itself. The figure below illustrates the flows for this scenario.

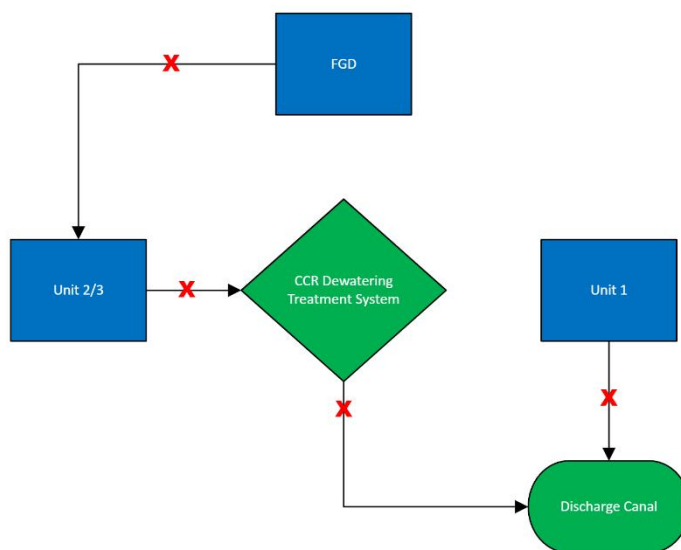


Figure 4.4 – Scenario 2 Flow Diagram

4.2.2 Scenario 2 Results

This scenario was modeled using HEC-HMS 4.13 with the above listed variables. The model determined that the Unit 1 Bottom Ash Pond does not overtop during this scenario. The maximum hydraulic grade can be found in the following table. Since no pumping occurs in this scenario and all quartile storms supply the same rainfall runoff quantity, only one quartile has to be modeled.

Table 4.2 – Scenario 2 Unit 1 Bottom Ash Pond Maximum Hydraulic Grades

Impoundment Name	Max HGL	Pond Overtopping Elevation.	Pass/Fail
	(feet)	(feet)	
Unit 1 Pond	12.8	35.0	Pass

5.0 SUMMARY AND CONCLUSIONS

In conclusion, as per this report and supporting documents, Unit 1 Bottom Ash Pond at the Charles R. Lowman Power Plant meets the requirements for inflow design flood controls as per the CCR Rule. This document and its attachments are intended to meet the requirements of the Initial Inflow Design Flood Control System Plan as per 40 CFR 257.82 (ADEM 335-13-15-.05(3)(c)).

The conclusions presented in this report are based upon currently accepted engineering principles, practices, and standards in the area where the services were provided. No other warranty, expressed or implied, is made. The findings in this report were developed from engineering calculations performed to meet the standards of the CCR Rule. Plant operation information was provided by the owner.

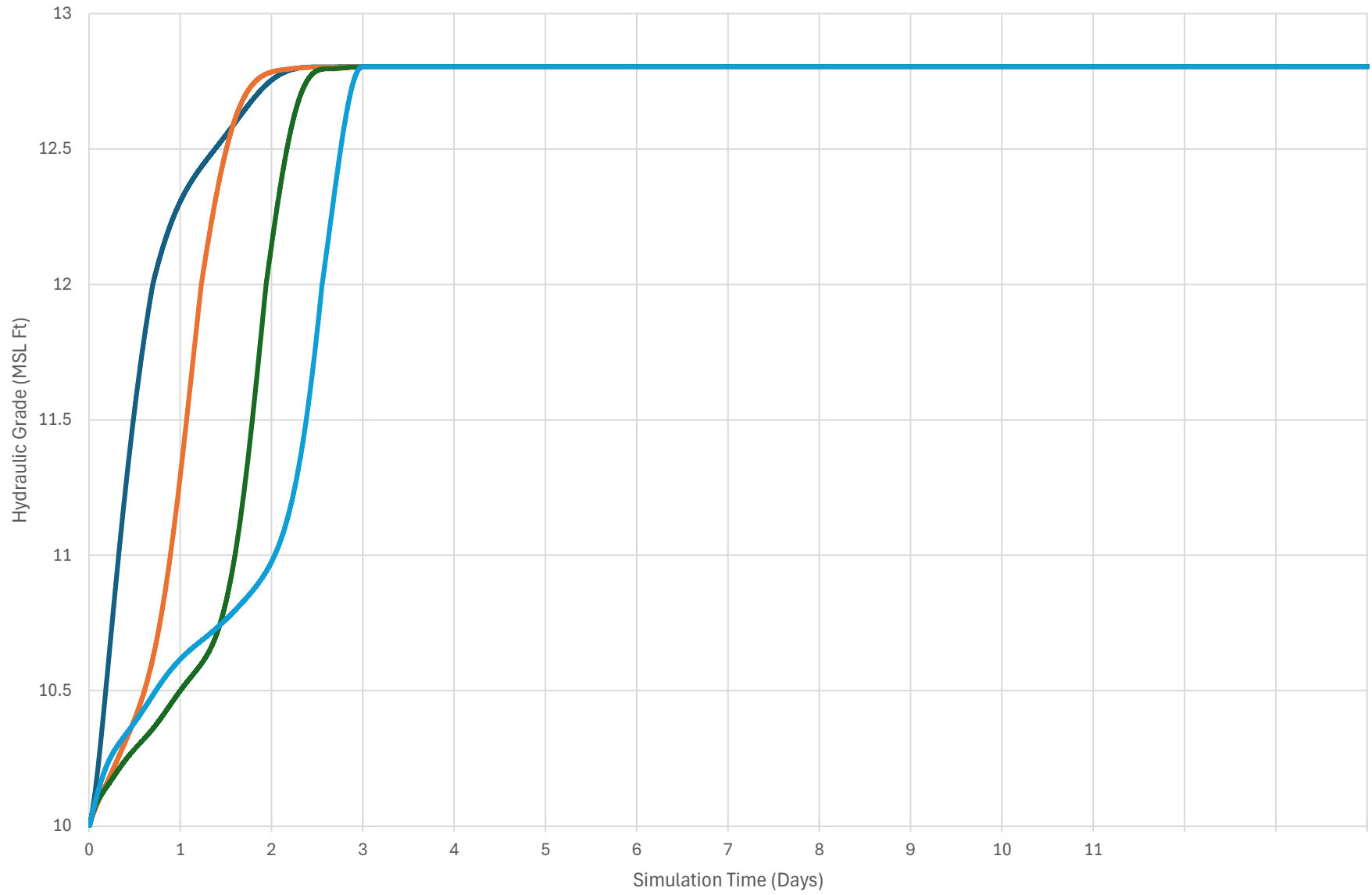


Appendix A

Scenario 1 Results

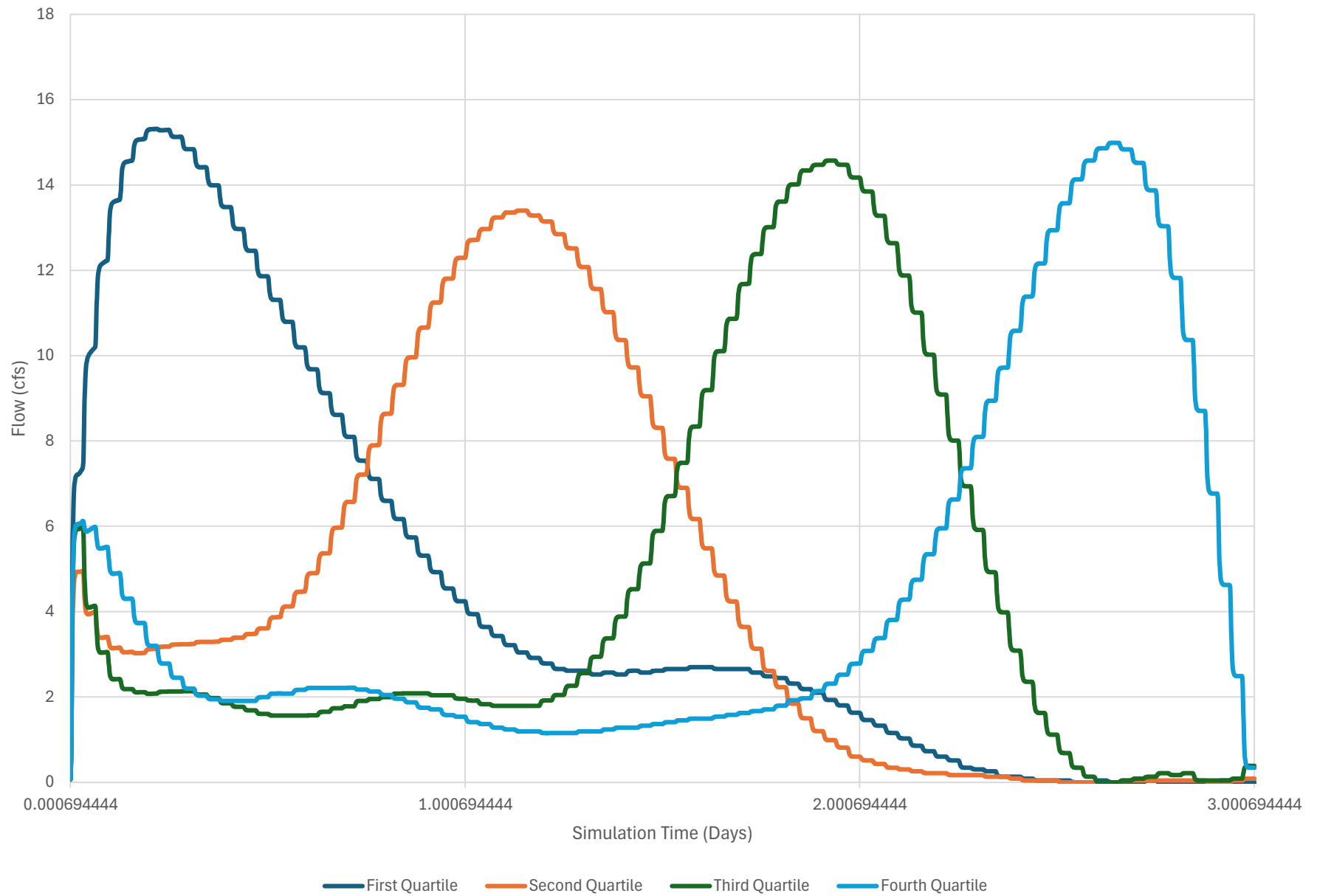
Figure A.1 – Unit 1 Bottom Ash Pond HGL and Inflow Graph

Unit 1 Hydraulic Grade



First Quartile Second Quartile Third Quartile Fourth Quartile

Unit 1 Rainfall Runoff



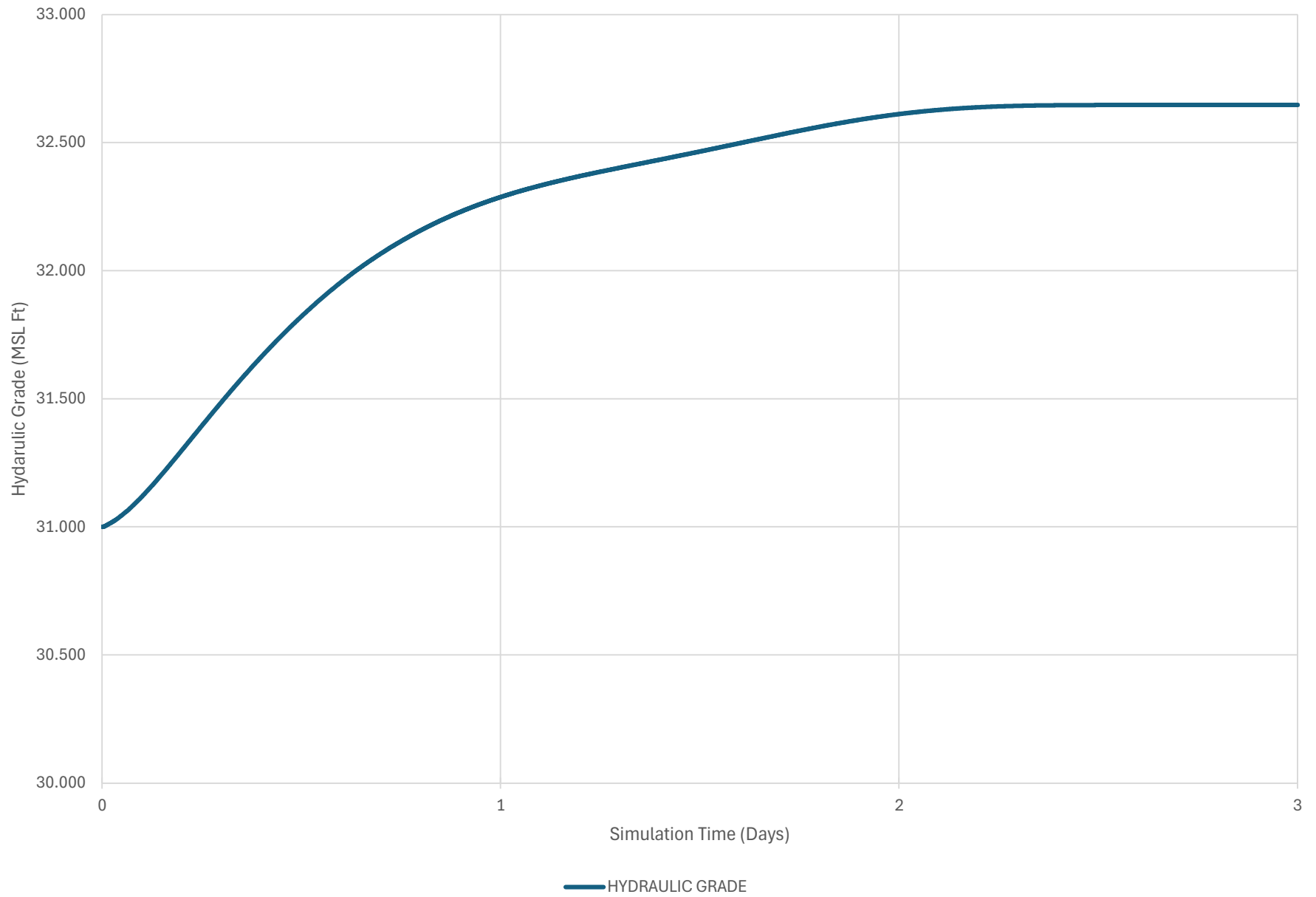


Appendix B

Scenario 2 Results

Figure B.1 – Unit 1 Bottom Ash Pond HGL and Inflow Graph

Scenario 2 Hydraulic Grade





Appendix C

NOAA Atlas 14 Information

Tabulated temporal distribution data for NOAA Atlas 14 Volume 9: Southeastern Region 1

This is a comma delimited file containing temporal distribution data for all four quartile cases and for all cases combined for the 96-hour duration.

First column of each table shows time from 0 to 96 hours in hourly increments

Second column shows cumulative percentages of total precipitation that occurred by given time in 90% of cases etc.

CUMULATIVE PERCENTAGES OF TOTAL PRECIPITATION FOR FIRST-QUARTILE CASES

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
0	0	0	0	0	0	0	0	0	0
1	0.34	0.74	1.37	1.45	1.87	3.07	5.07	8.63	12.78
2	0.88	1.56	2.59	3.25	4.35	6.57	10.18	16.18	23.52
3	1.44	2.43	3.84	5.37	7.27	10.36	15.25	22.84	32.62
4	1.93	3.39	5.26	7.75	10.5	14.35	20.19	28.77	40.4
5	2.38	4.47	6.91	10.36	13.93	18.43	24.97	34.1	47.12
6	2.86	5.72	8.83	13.16	17.47	22.55	29.56	38.93	52.97
7	3.45	7.19	11.03	16.12	21.06	26.64	33.93	43.35	58.11
8	4.24	8.91	13.49	19.19	24.64	30.65	38.09	47.43	62.68
9	5.3	10.88	16.19	22.34	28.18	34.55	42.01	51.24	66.76
10	6.66	13.12	19.08	25.53	31.65	38.31	45.72	54.81	70.43
11	8.37	15.6	22.11	28.75	35.02	41.91	49.22	58.18	73.75
12	10.4	18.3	25.24	31.94	38.29	45.33	52.51	61.37	76.76
13	12.75	21.17	28.41	35.09	41.44	48.58	55.61	64.41	79.49
14	15.37	24.17	31.58	38.17	44.47	51.65	58.54	67.3	81.98
15	18.21	27.25	34.71	41.16	47.38	54.54	61.3	70.05	84.24
16	21.2	30.35	37.75	44.04	50.15	57.26	63.9	72.67	86.29
17	24.27	33.42	40.67	46.79	52.79	59.81	66.37	75.16	88.14
18	27.36	36.41	43.46	49.41	55.31	62.21	68.71	77.53	89.8
19	30.41	39.29	46.08	51.88	57.69	64.45	70.92	79.76	91.29
20	33.35	42	48.53	54.2	59.95	66.55	73.03	81.85	92.62
21	36.13	44.53	50.79	56.37	62.08	68.53	75.02	83.82	93.79
22	38.72	46.85	52.87	58.38	64.09	70.38	76.92	85.65	94.82
23	41.08	48.95	54.76	60.25	65.98	72.13	78.72	87.35	95.72
24	43.19	50.83	56.47	61.97	67.74	73.77	80.43	88.92	96.49
25	45.04	52.48	58.01	63.55	69.4	75.32	82.05	90.35	97.16
26	46.63	53.91	59.39	65	70.94	76.79	83.59	91.66	97.72
27	47.98	55.14	60.62	66.33	72.38	78.18	85.04	92.84	98.19
28	49.1	56.19	61.72	67.55	73.72	79.5	86.41	93.9	98.58
29	50.01	57.07	62.71	68.68	74.96	80.75	87.7	94.84	98.9
30	50.74	57.81	63.6	69.71	76.11	81.94	88.91	95.68	99.16
31	51.31	58.44	64.4	70.67	77.17	83.08	90.04	96.41	99.37
32	51.76	58.98	65.14	71.57	78.16	84.16	91.1	97.05	99.52
33	52.12	59.45	65.83	72.4	79.08	85.2	92.08	97.6	99.65

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
34	52.42	59.87	66.48	73.19	79.93	86.19	92.98	98.07	99.73
35	52.67	60.27	67.1	73.94	80.73	87.13	93.81	98.46	99.8
36	52.92	60.67	67.7	74.66	81.48	88.03	94.57	98.79	99.84
37	53.16	61.07	68.29	75.35	82.19	88.89	95.26	99.06	99.87
38	53.43	61.49	68.89	76.03	82.87	89.71	95.89	99.28	99.89
39	53.73	61.94	69.49	76.69	83.52	90.49	96.46	99.45	99.9
40	54.07	62.42	70.09	77.33	84.14	91.23	96.96	99.59	99.91
41	54.45	62.93	70.7	77.97	84.75	91.94	97.41	99.69	99.91
42	54.86	63.48	71.33	78.6	85.36	92.61	97.81	99.77	99.91
43	55.32	64.07	71.97	79.22	85.95	93.24	98.16	99.83	99.91
44	55.8	64.68	72.61	79.84	86.55	93.84	98.46	99.87	99.91
45	56.31	65.31	73.26	80.46	87.14	94.41	98.72	99.89	99.91
46	56.83	65.96	73.92	81.07	87.75	94.94	98.95	99.91	99.92
47	57.36	66.62	74.58	81.67	88.35	95.44	99.14	99.92	99.92
48	57.88	67.28	75.24	82.27	88.96	95.91	99.3	99.92	99.92
49	58.4	67.94	75.89	82.86	89.58	96.34	99.44	99.92	99.93
50	58.9	68.58	76.54	83.45	90.2	96.75	99.55	99.92	99.93
51	59.38	69.22	77.17	84.04	90.83	97.12	99.64	99.93	99.94
52	59.84	69.84	77.8	84.62	91.46	97.47	99.71	99.93	99.95
53	60.28	70.44	78.41	85.19	92.08	97.79	99.77	99.93	99.95
54	60.7	71.03	79.01	85.76	92.7	98.08	99.82	99.93	99.96
55	61.11	71.59	79.59	86.33	93.32	98.34	99.86	99.93	99.96
56	61.51	72.14	80.17	86.89	93.92	98.58	99.89	99.94	99.97
57	61.92	72.69	80.73	87.46	94.5	98.8	99.91	99.94	99.97
58	62.33	73.22	81.28	88.03	95.07	98.99	99.93	99.95	99.98
59	62.75	73.75	81.82	88.59	95.61	99.16	99.94	99.95	99.98
60	63.21	74.28	82.37	89.16	96.12	99.31	99.95	99.96	99.98
61	63.7	74.82	82.91	89.74	96.61	99.44	99.96	99.96	99.98
62	64.23	75.38	83.45	90.31	97.06	99.55	99.97	99.97	99.98
63	64.8	75.95	84	90.89	97.48	99.64	99.97	99.97	99.98
64	65.43	76.54	84.56	91.48	97.86	99.72	99.97	99.97	99.98
65	66.1	77.15	85.14	92.06	98.2	99.78	99.98	99.98	99.98
66	66.83	77.78	85.74	92.65	98.51	99.83	99.98	99.98	99.98
67	67.6	78.44	86.35	93.24	98.78	99.87	99.98	99.98	99.98
68	68.41	79.12	86.99	93.82	99.02	99.9	99.98	99.98	99.98
69	69.26	79.82	87.65	94.4	99.22	99.92	99.98	99.98	99.98
70	70.12	80.55	88.33	94.96	99.39	99.94	99.98	99.98	99.98
71	71.01	81.29	89.04	95.52	99.53	99.95	99.98	99.98	99.98
72	71.9	82.04	89.76	96.05	99.65	99.95	99.98	99.98	99.99
73	72.78	82.81	90.5	96.56	99.73	99.95	99.98	99.98	99.99
74	73.66	83.58	91.26	97.05	99.8	99.95	99.98	99.98	99.99
75	74.52	84.37	92.02	97.5	99.86	99.95	99.98	99.98	99.99

[illegible]

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%

CUMULATIVE PERCENTAGES OF TOTAL PRECIPITATION FOR SECOND-QUARTILE CASES

0	0	0	0	0	0	0	0	0	0
1	0	0.39	0.68	0.99	1.28	1.29	1.29	1.4	5.13
2	0.28	0.81	1.22	1.72	2.28	2.56	3.15	3.82	9.65
3	0.62	1.18	1.64	2.29	3.12	3.84	5.28	6.69	13.5
4	0.9	1.45	1.97	2.79	3.89	5.1	7.46	9.63	16.67
5	1.09	1.62	2.26	3.26	4.63	6.33	9.53	12.37	19.18
6	1.18	1.72	2.53	3.75	5.36	7.52	11.39	14.76	21.12
7	1.22	1.79	2.82	4.27	6.11	8.65	12.99	16.73	22.56
8	1.22	1.85	3.15	4.83	6.87	9.71	14.31	18.27	23.61
9	1.23	1.94	3.52	5.43	7.64	10.7	15.36	19.4	24.39
10	1.26	2.09	3.95	6.07	8.41	11.63	16.17	20.2	25
11	1.32	2.29	4.43	6.73	9.19	12.49	16.79	20.74	25.54
12	1.44	2.56	4.95	7.42	9.97	13.31	17.28	21.13	26.1
13	1.59	2.89	5.52	8.13	10.76	14.1	17.69	21.45	26.75
14	1.78	3.29	6.12	8.86	11.56	14.88	18.1	21.8	27.58
15	1.99	3.74	6.76	9.6	12.38	15.69	18.56	22.26	28.61
16	2.21	4.23	7.42	10.37	13.23	16.53	19.12	22.91	29.91
17	2.44	4.76	8.1	11.16	14.14	17.45	19.84	23.79	31.47
18	2.66	5.32	8.82	12	15.11	18.47	20.75	24.95	33.33
19	2.87	5.91	9.57	12.89	16.16	19.6	21.9	26.43	35.47
20	3.07	6.54	10.36	13.84	17.31	20.88	23.29	28.24	37.88
21	3.28	7.2	11.2	14.87	18.57	22.31	24.95	30.37	40.54
22	3.51	7.91	12.12	16.01	19.97	23.91	26.88	32.82	43.43
23	3.77	8.68	13.12	17.25	21.51	25.7	29.08	35.58	46.51
24	4.1	9.53	14.21	18.62	23.2	27.67	31.54	38.6	49.73
25	4.51	10.47	15.43	20.13	25.05	29.84	34.24	41.85	53.07
26	5.03	11.53	16.77	21.79	27.07	32.18	37.16	45.29	56.49
27	5.69	12.71	18.26	23.61	29.25	34.7	40.26	48.88	59.92
28	6.52	14.05	19.91	25.6	31.58	37.39	43.53	52.56	63.35
29	7.54	15.54	21.73	27.74	34.07	40.22	46.91	56.3	66.73
30	8.77	17.21	23.72	30.04	36.7	43.19	50.38	60.03	70.02
31	10.23	19.06	25.87	32.5	39.46	46.26	53.91	63.73	73.2
32	11.92	21.09	28.2	35.11	42.33	49.41	57.44	67.34	76.23
33	13.85	23.31	30.69	37.84	45.3	52.62	60.96	70.82	79.09
34	16.01	25.7	33.33	40.69	48.33	55.87	64.42	74.16	81.77
35	18.4	28.25	36.1	43.64	51.42	59.12	67.79	77.31	84.26
36	20.99	30.95	38.99	46.66	54.54	62.35	71.05	80.27	86.53
37	23.76	33.78	41.97	49.73	57.67	65.53	74.17	83	88.59
38	26.68	36.71	45.01	52.83	60.77	68.64	77.12	85.5	90.43
39	29.73	39.71	48.1	55.93	63.84	71.66	79.9	87.76	92.07
40	32.86	42.76	51.2	59	66.84	74.56	82.49	89.79	93.5

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
41	36.04	45.81	54.28	62.04	69.76	77.33	84.88	91.58	94.74
42	39.22	48.85	57.31	65	72.58	79.95	87.06	93.14	95.8
43	42.37	51.84	60.27	67.87	75.28	82.41	89.03	94.48	96.68
44	45.45	54.75	63.13	70.62	77.85	84.69	90.8	95.62	97.41
45	48.42	57.55	65.88	73.25	80.27	86.8	92.37	96.57	98.01
46	51.25	60.22	68.47	75.73	82.54	88.72	93.73	97.36	98.48
47	53.91	62.73	70.91	78.06	84.65	90.46	94.92	97.98	98.84
48	56.37	65.07	73.18	80.22	86.59	92.01	95.93	98.48	99.12
49	58.63	67.23	75.26	82.22	88.36	93.39	96.78	98.86	99.32
50	60.67	69.19	77.16	84.04	89.97	94.59	97.48	99.14	99.46
51	62.49	70.96	78.88	85.69	91.41	95.63	98.05	99.34	99.55
52	64.08	72.54	80.41	87.17	92.69	96.51	98.51	99.48	99.61
53	65.46	73.93	81.76	88.49	93.82	97.25	98.86	99.57	99.64
54	66.64	75.15	82.95	89.65	94.81	97.86	99.13	99.62	99.66
55	67.64	76.21	83.99	90.68	95.66	98.35	99.33	99.65	99.66
56	68.48	77.13	84.9	91.57	96.39	98.74	99.47	99.66	99.66
57	69.19	77.93	85.69	92.35	97	99.04	99.56	99.66	99.66
58	69.78	78.63	86.39	93.03	97.52	99.26	99.62	99.66	99.67
59	70.3	79.25	87.01	93.62	97.95	99.43	99.65	99.66	99.67
60	70.77	79.83	87.58	94.14	98.3	99.54	99.67	99.67	99.68
61	71.22	80.38	88.11	94.6	98.58	99.61	99.67	99.68	99.7
62	71.67	80.91	88.63	95.01	98.81	99.65	99.68	99.69	99.72
63	72.14	81.46	89.14	95.39	99	99.67	99.68	99.71	99.74
64	72.65	82.03	89.66	95.74	99.14	99.68	99.68	99.74	99.77
65	73.22	82.64	90.2	96.08	99.26	99.68	99.68	99.76	99.79
66	73.85	83.29	90.77	96.4	99.36	99.68	99.69	99.79	99.82
67	74.56	83.99	91.37	96.72	99.44	99.68	99.71	99.81	99.84
68	75.32	84.74	92	97.04	99.51	99.69	99.73	99.84	99.86
69	76.15	85.54	92.66	97.35	99.57	99.7	99.75	99.85	99.87
70	77.03	86.37	93.34	97.65	99.62	99.71	99.78	99.87	99.88
71	77.96	87.24	94.04	97.95	99.67	99.73	99.8	99.88	99.89
72	78.91	88.12	94.74	98.24	99.71	99.75	99.82	99.89	99.89
73	79.87	89.02	95.43	98.52	99.75	99.78	99.84	99.89	99.9
74	80.83	89.91	96.1	98.77	99.79	99.8	99.86	99.9	99.9
75	81.78	90.78	96.73	99.01	99.82	99.83	99.88	99.9	99.9
76	82.7	91.62	97.32	99.22	99.85	99.85	99.89	99.9	99.9
77	83.59	92.43	97.86	99.4	99.87	99.87	99.9	99.9	99.9
78	84.44	93.19	98.33	99.55	99.88	99.88	99.9	99.9	99.9
79	85.26	93.9	98.74	99.67	99.89	99.89	99.9	99.9	99.91
80	86.06	94.57	99.07	99.76	99.9	99.9	99.9	99.91	99.91
81	86.84	95.19	99.34	99.82	99.9	99.9	99.9	99.92	99.92
82	87.63	95.76	99.54	99.86	99.9	99.9	99.9	99.93	99.93

[illegible]

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%

CUMULATIVE PERCENTAGES OF TOTAL PRECIPITATION FOR THIRD-QUARTILE CASES

0	0	0	0	0	0	0	0	0	0
1	0	0.25	0.65	0.91	1.54	2.19	2.45	3.19	5.78
2	0.24	0.67	1.19	1.68	2.57	3.61	4.39	6	10.34
3	0.55	1.1	1.64	2.34	3.32	4.61	6.01	8.45	13.9
4	0.83	1.45	2.01	2.88	3.91	5.42	7.41	10.58	16.67
5	1.03	1.69	2.32	3.34	4.44	6.16	8.67	12.41	18.83
6	1.16	1.83	2.57	3.73	4.95	6.9	9.8	13.96	20.5
7	1.22	1.89	2.8	4.08	5.45	7.64	10.81	15.26	21.82
8	1.25	1.9	3	4.39	5.96	8.39	11.72	16.34	22.87
9	1.25	1.91	3.2	4.69	6.47	9.11	12.53	17.23	23.74
10	1.25	1.92	3.39	4.98	6.98	9.8	13.25	17.99	24.48
11	1.27	1.96	3.58	5.26	7.47	10.45	13.89	18.63	25.15
12	1.3	2.04	3.77	5.56	7.94	11.03	14.46	19.2	25.78
13	1.36	2.16	3.97	5.86	8.38	11.56	14.97	19.73	26.4
14	1.43	2.32	4.17	6.17	8.8	12.03	15.46	20.24	27.02
15	1.53	2.51	4.38	6.49	9.2	12.46	15.93	20.76	27.66
16	1.62	2.73	4.6	6.82	9.58	12.86	16.41	21.31	28.32
17	1.72	2.95	4.82	7.16	9.95	13.25	16.9	21.89	28.99
18	1.81	3.18	5.05	7.5	10.32	13.63	17.42	22.52	29.68
19	1.89	3.4	5.28	7.85	10.69	14.03	17.98	23.19	30.37
20	1.95	3.6	5.52	8.21	11.06	14.46	18.58	23.89	31.06
21	2	3.79	5.77	8.57	11.45	14.92	19.22	24.62	31.73
22	2.02	3.96	6.02	8.93	11.86	15.42	19.89	25.36	32.37
23	2.04	4.11	6.28	9.3	12.28	15.96	20.58	26.11	32.98
24	2.04	4.24	6.55	9.67	12.73	16.53	21.29	26.84	33.55
25	2.04	4.37	6.83	10.04	13.19	17.14	21.99	27.54	34.07
26	2.04	4.48	7.12	10.41	13.66	17.77	22.68	28.2	34.55
27	2.05	4.6	7.41	10.79	14.15	18.41	23.33	28.81	34.98
28	2.09	4.73	7.71	11.16	14.64	19.05	23.95	29.36	35.36
29	2.14	4.87	8.02	11.53	15.13	19.67	24.52	29.85	35.71
30	2.22	5.03	8.34	11.91	15.61	20.27	25.03	30.27	36.03
31	2.33	5.21	8.65	12.28	16.09	20.83	25.48	30.62	36.34
32	2.47	5.41	8.97	12.65	16.55	21.36	25.87	30.93	36.65
33	2.65	5.65	9.3	13.02	17	21.84	26.2	31.2	36.98
34	2.85	5.91	9.62	13.4	17.43	22.28	26.49	31.44	37.35
35	3.08	6.19	9.95	13.77	17.85	22.68	26.75	31.68	37.78
36	3.33	6.5	10.28	14.16	18.27	23.04	26.99	31.94	38.29
37	3.59	6.83	10.62	14.56	18.69	23.39	27.25	32.24	38.89
38	3.87	7.18	10.97	14.97	19.11	23.74	27.53	32.61	39.61
39	4.14	7.54	11.34	15.41	19.56	24.1	27.88	33.08	40.46
40	4.42	7.92	11.72	15.88	20.04	24.51	28.31	33.68	41.47

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
41	4.69	8.32	12.14	16.39	20.57	24.98	28.86	34.42	42.63
42	4.95	8.74	12.6	16.96	21.17	25.53	29.55	35.33	43.96
43	5.2	9.17	13.12	17.59	21.86	26.2	30.41	36.43	45.47
44	5.46	9.64	13.7	18.29	22.65	27.02	31.45	37.74	47.16
45	5.72	10.14	14.35	19.09	23.56	27.99	32.71	39.26	49.02
46	5.99	10.7	15.1	20	24.62	29.16	34.19	41.01	51.05
47	6.29	11.32	15.96	21.03	25.82	30.52	35.91	42.98	53.24
48	6.63	12.02	16.95	22.19	27.2	32.11	37.87	45.16	55.58
49	7.04	12.82	18.07	23.49	28.77	33.93	40.06	47.56	58.05
50	7.52	13.74	19.35	24.96	30.52	35.97	42.49	50.14	60.62
51	8.12	14.8	20.79	26.6	32.47	38.25	45.13	52.9	63.28
52	8.84	16.01	22.41	28.42	34.62	40.76	47.98	55.81	66
53	9.71	17.41	24.22	30.43	36.98	43.48	51	58.83	68.75
54	10.77	19	26.22	32.62	39.52	46.39	54.16	61.94	71.5
55	12.02	20.79	28.41	35	42.25	49.48	57.44	65.1	74.23
56	13.49	22.81	30.8	37.57	45.14	52.72	60.8	68.27	76.91
57	15.19	25.06	33.38	40.32	48.18	56.06	64.2	71.42	79.5
58	17.15	27.53	36.14	43.23	51.36	59.48	67.6	74.51	81.99
59	19.35	30.22	39.07	46.3	54.63	62.95	70.95	77.51	84.35
60	21.81	33.13	42.16	49.5	57.98	66.41	74.23	80.38	86.56
61	24.51	36.24	45.38	52.8	61.36	69.84	77.38	83.09	88.61
62	27.45	39.52	48.7	56.19	64.76	73.18	80.39	85.62	90.48
63	30.61	42.94	52.11	59.63	68.14	76.42	83.21	87.94	92.16
64	33.96	46.48	55.56	63.09	71.45	79.5	85.83	90.05	93.65
65	37.47	50.1	59.04	66.53	74.68	82.4	88.22	91.93	94.94
66	41.1	53.74	62.5	69.93	77.78	85.1	90.36	93.57	96.05
67	44.81	57.38	65.91	73.24	80.73	87.57	92.26	94.99	96.97
68	48.55	60.96	69.23	76.43	83.5	89.8	93.9	96.17	97.73
69	52.28	64.44	72.43	79.47	86.07	91.77	95.3	97.15	98.33
70	55.94	67.77	75.49	82.33	88.41	93.49	96.46	97.92	98.79
71	59.49	70.93	78.37	84.98	90.53	94.96	97.39	98.52	99.13
72	62.88	73.87	81.05	87.4	92.4	96.19	98.12	98.96	99.36
73	66.08	76.57	83.52	89.57	94.02	97.18	98.68	99.26	99.52
74	69.05	79.02	85.76	91.49	95.4	97.97	99.07	99.47	99.61
75	71.76	81.2	87.75	93.15	96.55	98.57	99.35	99.59	99.66
76	74.2	83.13	89.52	94.55	97.48	99	99.52	99.65	99.68
77	76.36	84.81	91.05	95.7	98.2	99.3	99.61	99.67	99.68
78	78.25	86.26	92.37	96.62	98.75	99.49	99.66	99.68	99.68
79	79.89	87.52	93.49	97.34	99.13	99.61	99.68	99.68	99.68
80	81.3	88.62	94.43	97.87	99.39	99.66	99.68	99.68	99.69
81	82.52	89.61	95.22	98.25	99.55	99.68	99.68	99.69	99.72
82	83.61	90.53	95.89	98.52	99.63	99.68	99.69	99.72	99.75

[illegible]

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%

CUMULATIVE PERCENTAGES OF TOTAL PRECIPITATION FOR FOURTH-QUARTILE CASES

0	0	0	0	0	0	0	0	0	0
1	0.36	0.67	0.87	1.07	1.57	2.28	3.61	5.77	7.89
2	0.64	1.16	1.61	2.1	3.05	4.25	6.24	9.5	13.33
3	0.87	1.54	2.25	3.06	4.39	5.96	8.3	12.08	17.19
4	1.05	1.85	2.8	3.92	5.57	7.47	10.03	14.05	20.03
5	1.2	2.12	3.28	4.69	6.6	8.79	11.56	15.73	22.23
6	1.33	2.37	3.71	5.36	7.49	9.97	12.96	17.28	24.03
7	1.43	2.6	4.09	5.94	8.25	11.02	14.27	18.78	25.58
8	1.52	2.82	4.43	6.46	8.91	11.95	15.49	20.21	26.95
9	1.59	3.03	4.75	6.91	9.49	12.78	16.62	21.58	28.18
10	1.65	3.23	5.05	7.32	10.01	13.54	17.65	22.84	29.3
11	1.71	3.43	5.33	7.7	10.49	14.22	18.57	23.97	30.31
12	1.76	3.62	5.61	8.06	10.95	14.84	19.39	24.96	31.22
13	1.82	3.81	5.88	8.42	11.4	15.42	20.11	25.8	32.03
14	1.88	3.99	6.16	8.77	11.85	15.96	20.74	26.49	32.76
15	1.95	4.17	6.44	9.14	12.3	16.48	21.3	27.06	33.41
16	2.03	4.36	6.73	9.51	12.77	16.98	21.8	27.52	34
17	2.12	4.55	7.02	9.9	13.26	17.48	22.26	27.91	34.54
18	2.23	4.74	7.32	10.3	13.75	17.97	22.7	28.26	35.05
19	2.34	4.94	7.63	10.71	14.26	18.47	23.13	28.59	35.54
20	2.47	5.15	7.95	11.13	14.78	18.97	23.56	28.94	36.02
21	2.6	5.36	8.27	11.56	15.3	19.47	24.02	29.31	36.51
22	2.74	5.57	8.59	11.99	15.82	19.98	24.49	29.73	37.01
23	2.88	5.79	8.91	12.43	16.34	20.49	24.99	30.2	37.51
24	3.03	6.01	9.23	12.86	16.85	21	25.51	30.73	38.04
25	3.17	6.23	9.55	13.29	17.35	21.51	26.04	31.31	38.57
26	3.32	6.45	9.86	13.71	17.83	22.01	26.59	31.93	39.1
27	3.45	6.66	10.16	14.11	18.29	22.5	27.15	32.58	39.64
28	3.58	6.87	10.46	14.51	18.73	22.97	27.7	33.24	40.17
29	3.7	7.07	10.74	14.89	19.14	23.43	28.23	33.9	40.68
30	3.82	7.27	11.02	15.26	19.54	23.86	28.75	34.54	41.17
31	3.92	7.46	11.28	15.61	19.91	24.27	29.23	35.15	41.63
32	4.02	7.65	11.54	15.94	20.27	24.66	29.69	35.72	42.06
33	4.12	7.83	11.79	16.26	20.6	25.03	30.1	36.23	42.45
34	4.2	8	12.04	16.57	20.92	25.37	30.48	36.69	42.81
35	4.29	8.17	12.28	16.87	21.22	25.69	30.82	37.08	43.13
36	4.37	8.34	12.51	17.16	21.51	25.99	31.13	37.42	43.42
37	4.46	8.51	12.75	17.43	21.79	26.27	31.4	37.7	43.68
38	4.55	8.68	12.98	17.71	22.07	26.55	31.66	37.94	43.92
39	4.64	8.86	13.22	17.97	22.34	26.81	31.9	38.15	44.16
40	4.74	9.04	13.46	18.23	22.61	27.08	32.14	38.33	44.38

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
41	4.84	9.22	13.7	18.5	22.88	27.34	32.38	38.51	44.61
42	4.95	9.41	13.95	18.76	23.16	27.61	32.63	38.7	44.86
43	5.07	9.61	14.21	19.02	23.44	27.88	32.91	38.91	45.12
44	5.19	9.82	14.47	19.29	23.73	28.17	33.21	39.14	45.4
45	5.32	10.03	14.73	19.56	24.03	28.47	33.54	39.42	45.7
46	5.46	10.26	15.01	19.83	24.33	28.79	33.9	39.73	46.03
47	5.6	10.49	15.29	20.11	24.64	29.12	34.3	40.09	46.38
48	5.74	10.73	15.58	20.4	24.96	29.48	34.73	40.49	46.76
49	5.89	10.97	15.87	20.69	25.29	29.84	35.18	40.93	47.15
50	6.04	11.23	16.18	20.99	25.63	30.23	35.66	41.39	47.55
51	6.19	11.49	16.49	21.31	25.98	30.62	36.15	41.88	47.95
52	6.35	11.76	16.81	21.63	26.33	31.03	36.65	42.36	48.34
53	6.51	12.04	17.14	21.97	26.69	31.45	37.14	42.83	48.73
54	6.68	12.34	17.49	22.32	27.06	31.87	37.62	43.28	49.08
55	6.86	12.65	17.85	22.69	27.44	32.29	38.07	43.69	49.42
56	7.05	12.98	18.23	23.08	27.83	32.71	38.49	44.05	49.72
57	7.26	13.33	18.63	23.49	28.23	33.14	38.88	44.36	50
58	7.49	13.71	19.06	23.92	28.65	33.57	39.23	44.6	50.25
59	7.75	14.13	19.52	24.39	29.1	34	39.55	44.79	50.49
60	8.05	14.58	20.02	24.89	29.56	34.43	39.83	44.93	50.72
61	8.4	15.09	20.56	25.44	30.06	34.88	40.09	45.03	50.97
62	8.79	15.65	21.15	26.03	30.6	35.36	40.35	45.13	51.25
63	9.25	16.27	21.8	26.67	31.19	35.86	40.63	45.23	51.59
64	9.77	16.96	22.51	27.37	31.84	36.41	40.94	45.39	52.01
65	10.36	17.72	23.29	28.14	32.56	37.02	41.32	45.63	52.56
66	11.03	18.56	24.15	28.99	33.35	37.7	41.79	46	53.25
67	11.79	19.49	25.08	29.92	34.24	38.48	42.39	46.54	54.13
68	12.62	20.5	26.11	30.94	35.24	39.38	43.16	47.31	55.21
69	13.54	21.6	27.23	32.06	36.35	40.41	44.12	48.33	56.53
70	14.54	22.79	28.44	33.29	37.6	41.6	45.32	49.65	58.11
71	15.63	24.07	29.75	34.64	38.99	42.97	46.77	51.3	59.95
72	16.8	25.44	31.17	36.11	40.54	44.54	48.5	53.29	62.06
73	18.04	26.89	32.69	37.72	42.26	46.33	50.53	55.64	64.44
74	19.36	28.43	34.32	39.47	44.15	48.35	52.87	58.34	67.06
75	20.75	30.05	36.07	41.37	46.24	50.6	55.5	61.37	69.9
76	22.21	31.76	37.93	43.42	48.51	53.1	58.42	64.68	72.91
77	23.74	33.55	39.91	45.63	50.98	55.84	61.6	68.24	76.05
78	25.36	35.43	42.02	48.01	53.64	58.81	65	71.96	79.24
79	27.07	37.42	44.27	50.56	56.48	61.98	68.57	75.76	82.41
80	28.89	39.52	46.67	53.28	59.5	65.34	72.25	79.55	85.5
81	30.86	41.77	49.23	56.17	62.67	68.84	75.96	83.24	88.42
82	33.01	44.19	51.97	59.22	65.97	72.44	79.63	86.71	91.09

[illegible]

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%

CUMULATIVE PERCENTAGES OF TOTAL PRECIPITATION FOR ALL CASES

0	0	0	0	0	0	0	0	0	0
1	0.58	0.58	0.7	1.14	1.34	2.21	3.38	4.95	8.72
2	0.88	1.04	1.45	2.26	2.93	4.47	6.55	9.38	16.13
3	1.03	1.44	2.21	3.34	4.61	6.69	9.52	13.41	22.48
4	1.13	1.81	2.94	4.39	6.26	8.85	12.3	17.12	27.99
5	1.21	2.18	3.65	5.42	7.84	10.92	14.91	20.59	32.84
6	1.31	2.54	4.32	6.44	9.33	12.89	17.38	23.87	37.18
7	1.42	2.91	4.98	7.45	10.73	14.78	19.75	27	41.11
8	1.56	3.29	5.62	8.45	12.07	16.59	22.03	30.01	44.74
9	1.71	3.69	6.27	9.45	13.36	18.34	24.25	32.91	48.14
10	1.87	4.09	6.93	10.46	14.63	20.04	26.43	35.73	51.35
11	2.04	4.5	7.61	11.47	15.91	21.72	28.59	38.47	54.42
12	2.22	4.93	8.31	12.5	17.2	23.38	30.73	41.15	57.38
13	2.4	5.37	9.05	13.54	18.52	25.03	32.87	43.75	60.24
14	2.58	5.83	9.81	14.6	19.87	26.7	35.01	46.3	63.02
15	2.77	6.3	10.6	15.67	21.27	28.37	37.14	48.79	65.71
16	2.97	6.79	11.41	16.76	22.71	30.06	39.27	51.22	68.32
17	3.18	7.3	12.25	17.86	24.18	31.78	41.39	53.59	70.85
18	3.4	7.83	13.1	18.98	25.68	33.51	43.5	55.9	73.29
19	3.65	8.38	13.97	20.12	27.2	35.26	45.59	58.16	75.64
20	3.9	8.96	14.85	21.27	28.74	37.02	47.65	60.37	77.88
21	4.18	9.54	15.74	22.43	30.28	38.8	49.69	62.52	80.02
22	4.48	10.15	16.63	23.6	31.82	40.58	51.69	64.62	82.04
23	4.79	10.77	17.53	24.78	33.36	42.37	53.64	66.67	83.95
24	5.11	11.4	18.42	25.97	34.88	44.15	55.56	68.66	85.73
25	5.45	12.04	19.31	27.16	36.39	45.91	57.43	70.59	87.39
26	5.8	12.69	20.21	28.36	37.87	47.67	59.26	72.47	88.92
27	6.15	13.34	21.1	29.56	39.34	49.41	61.04	74.3	90.33
28	6.51	13.99	21.99	30.76	40.79	51.12	62.77	76.07	91.62
29	6.86	14.64	22.89	31.97	42.23	52.81	64.45	77.78	92.78
30	7.22	15.29	23.79	33.17	43.65	54.46	66.1	79.43	93.83
31	7.57	15.94	24.69	34.38	45.05	56.09	67.7	81.02	94.77
32	7.92	16.58	25.61	35.59	46.45	57.69	69.26	82.55	95.6
33	8.26	17.22	26.53	36.8	47.84	59.25	70.79	84.02	96.33
34	8.61	17.87	27.47	38.01	49.23	60.78	72.28	85.42	96.96
35	8.95	18.51	28.42	39.23	50.62	62.28	73.75	86.75	97.52
36	9.3	19.16	29.38	40.45	52	63.75	75.18	88.01	97.99
37	9.66	19.82	30.36	41.68	53.39	65.18	76.59	89.21	98.39
38	10.02	20.49	31.36	42.91	54.77	66.59	77.97	90.33	98.72
39	10.4	21.18	32.37	44.14	56.16	67.97	79.32	91.39	99
40	10.8	21.88	33.41	45.39	57.54	69.33	80.65	92.37	99.23

Time	Percent of occurrence								
hours	90%	80%	70%	60%	50%	40%	30%	20%	10%
41	11.22	22.61	34.46	46.64	58.93	70.66	81.96	93.28	99.42
42	11.67	23.37	35.53	47.9	60.3	71.96	83.23	94.12	99.56
43	12.15	24.15	36.62	49.17	61.67	73.25	84.47	94.89	99.68
44	12.66	24.97	37.73	50.44	63.03	74.51	85.69	95.59	99.77
45	13.21	25.83	38.87	51.72	64.38	75.76	86.87	96.23	99.84
46	13.8	26.73	40.02	53.01	65.7	76.99	88	96.8	99.88
47	14.42	27.67	41.19	54.31	67.01	78.19	89.1	97.3	99.92
48	15.08	28.64	42.38	55.61	68.3	79.38	90.16	97.75	99.94
49	15.78	29.66	43.6	56.92	69.57	80.55	91.16	98.15	99.96
50	16.52	30.72	44.83	58.24	70.81	81.7	92.11	98.49	99.97
51	17.29	31.82	46.09	59.56	72.03	82.83	93.01	98.78	99.98
52	18.1	32.95	47.37	60.88	73.23	83.94	93.86	99.03	99.98
53	18.94	34.13	48.67	62.2	74.41	85.03	94.64	99.24	99.98
54	19.81	35.33	50	63.53	75.56	86.09	95.36	99.41	99.98
55	20.71	36.57	51.35	64.85	76.7	87.12	96.03	99.55	99.98
56	21.63	37.85	52.72	66.18	77.83	88.12	96.63	99.66	99.98
57	22.59	39.15	54.12	67.5	78.94	89.09	97.17	99.75	99.98
58	23.57	40.48	55.54	68.83	80.04	90.03	97.65	99.81	99.98
59	24.59	41.84	56.98	70.15	81.13	90.93	98.08	99.86	99.98
60	25.64	43.23	58.44	71.47	82.21	91.8	98.45	99.89	99.98
61	26.73	44.64	59.92	72.79	83.3	92.63	98.76	99.92	99.99
62	27.87	46.08	61.42	74.11	84.38	93.41	99.03	99.93	99.99
63	29.06	47.55	62.93	75.42	85.46	94.15	99.25	99.94	99.99
64	30.3	49.05	64.45	76.74	86.53	94.85	99.44	99.95	99.99
65	31.6	50.59	65.98	78.05	87.6	95.5	99.58	99.95	99.99
66	32.98	52.16	67.51	79.35	88.65	96.1	99.7	99.95	99.99
67	34.43	53.76	69.05	80.65	89.7	96.65	99.78	99.95	100
68	35.97	55.4	70.59	81.94	90.72	97.16	99.85	99.95	100
69	37.59	57.08	72.12	83.23	91.72	97.61	99.89	99.95	100
70	39.3	58.8	73.65	84.5	92.69	98.02	99.92	99.95	100
71	41.1	60.57	75.17	85.76	93.62	98.39	99.94	99.95	100
72	42.99	62.37	76.67	87	94.51	98.7	99.95	99.96	100
73	44.97	64.2	78.16	88.22	95.34	98.98	99.96	99.96	100
74	47.03	66.07	79.64	89.41	96.11	99.21	99.96	99.97	100
75	49.17	67.97	81.1	90.56	96.81	99.4	99.96	99.97	100
76	51.37	69.88	82.54	91.68	97.44	99.56	99.96	99.98	100
77	53.62	71.82	83.97	92.75	97.99	99.68	99.96	99.98	100
78	55.92	73.75	85.38	93.76	98.47	99.78	99.96	99.98	100
79	58.25	75.69	86.76	94.71	98.87	99.85	99.96	99.98	100
80	60.6	77.61	88.13	95.59	99.2	99.9	99.97	99.99	100
81	62.96	79.51	89.48	96.4	99.46	99.93	99.97	99.99	100
82	65.33	81.38	90.79	97.13	99.65	99.95	99.98	99.99	100

[illegible]



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