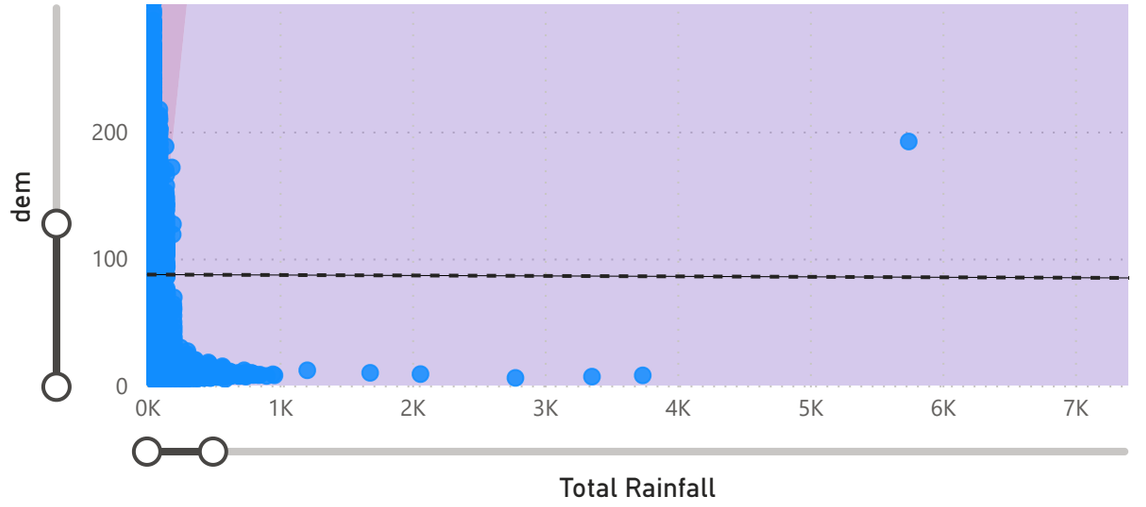
Flood Multifactor Analysis

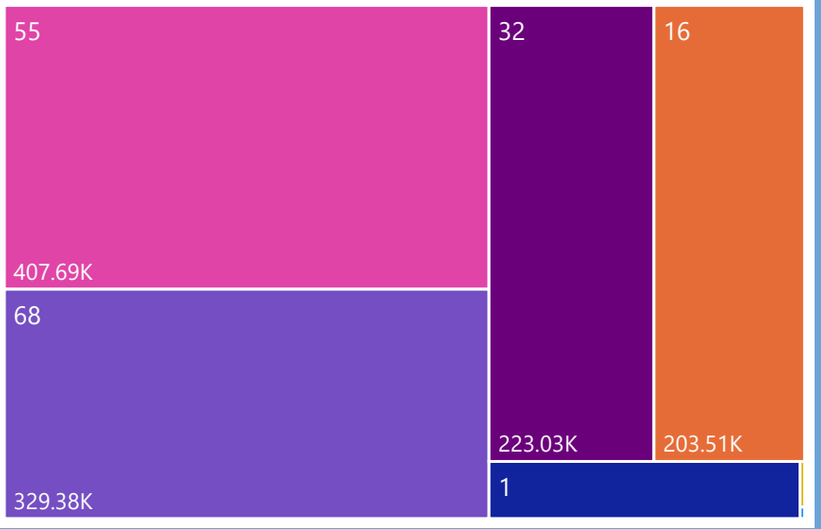
Measured in mm	Measured in mm	Measured in mm	Measured in mm	Total Rainfall Counts
1.22M	46.81	54.83	40.12%	26.00K
Sum of rainfall	Average Rainfall	Max Rainfall	Flood Casue Rainfall %	Rainfall Frequency

rainfall
0.00 54.83

Total Rainfall and %GT of Total Rainfall by dem



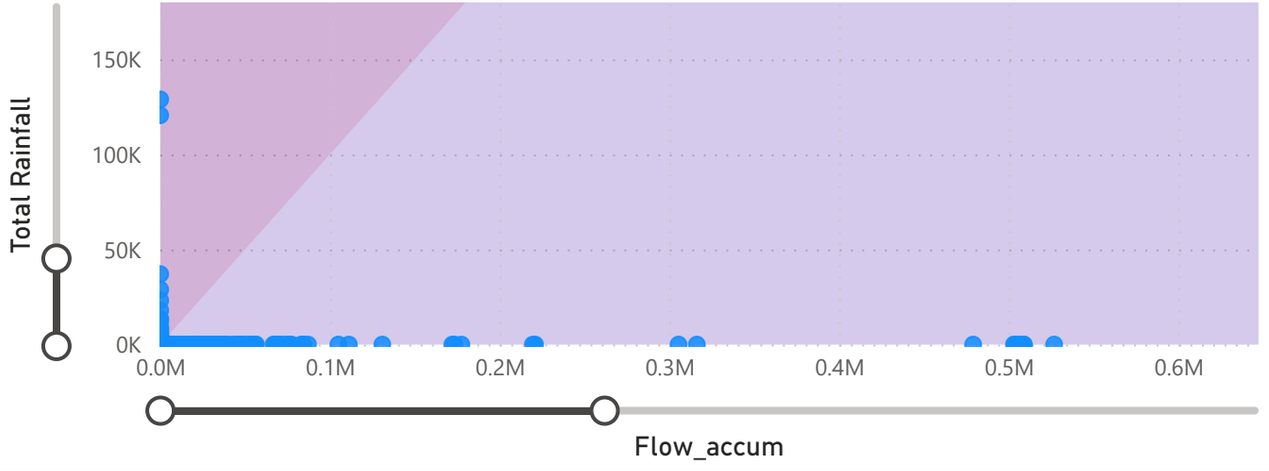
Total rainfall by Lund_use



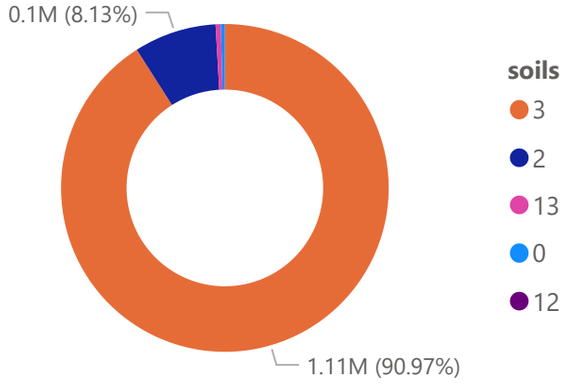
F_NF
0 1

lithology
0 2 4
1 3 5

Total Rainfall by Flow_accum



Total Rainfall by soils



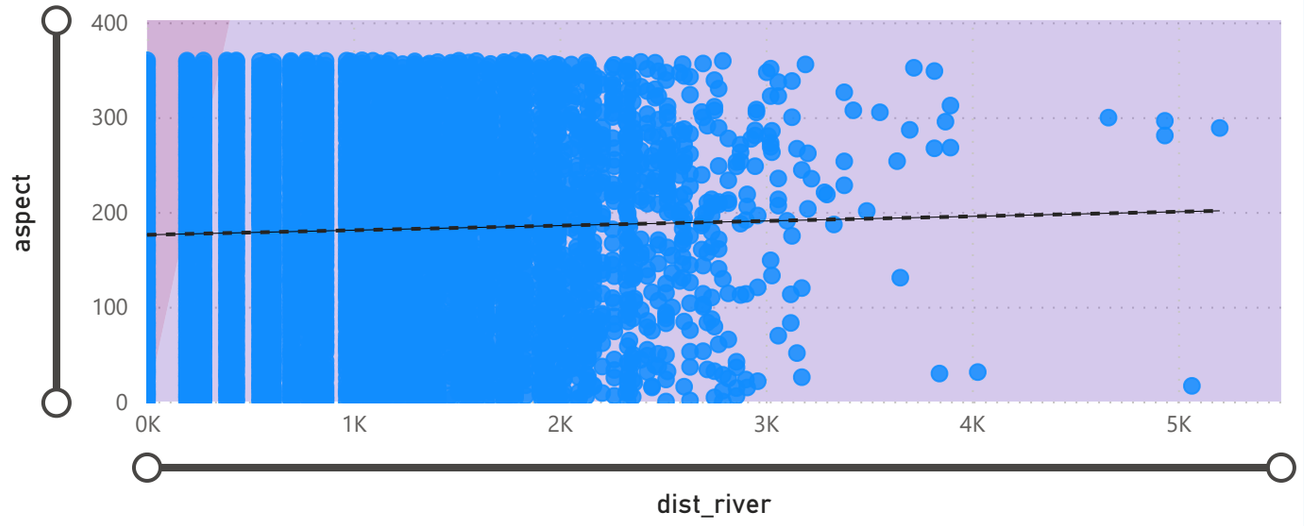
Y Factor Selection
- [ ] aspect
- [x] dem
- [ ] dist_river
- [ ] plan_c
- [ ] Profile_cu
- [ ] rainfall
- [ ] Slope
- [ ] SPI
- [ ] TPI

Flood Multifactor Analysis Details

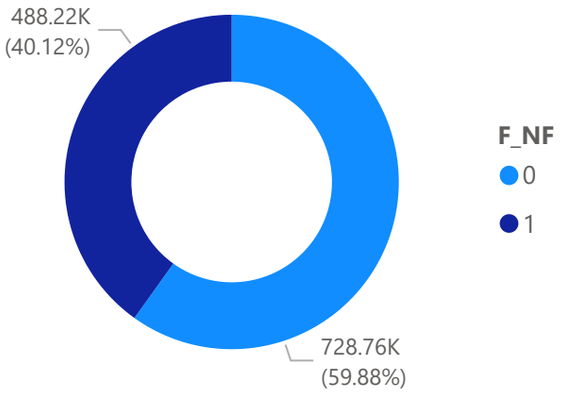
Measured in mm	Measured in mm	Measured in mm	Measured in mm	Total Rainfall Counts
1.22M	46.81	54.83	40.12%	26.00K
Sum of rainfall	Average Rainfall	Max Rainfall	Flood Casue Rainfall %	Rainfall Frequency

rainfall: 0.00 – 54.83

dist_river and aspect



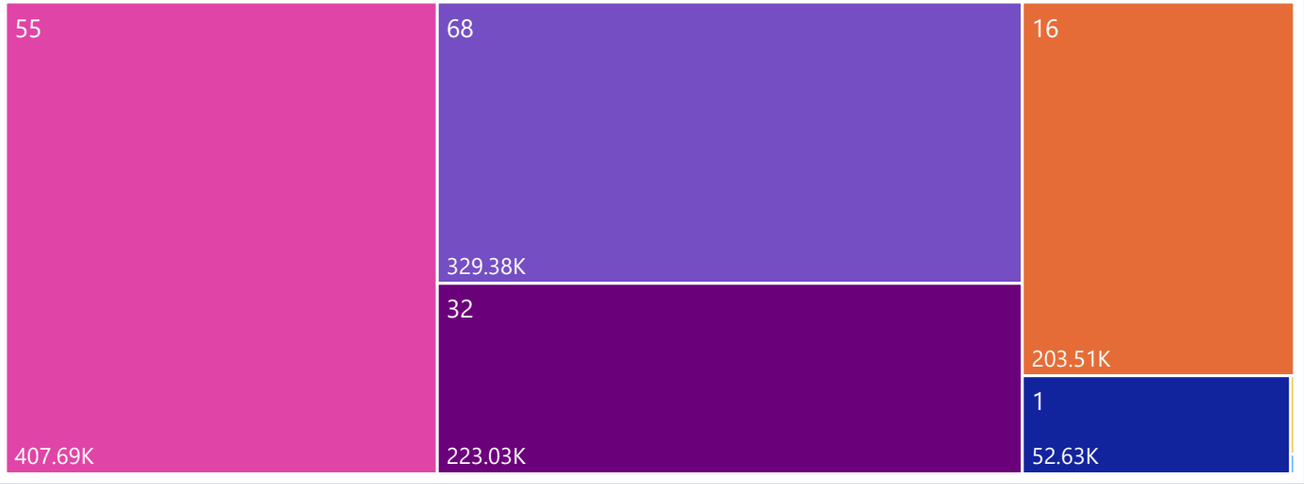
Sum of rainfall by F_NF



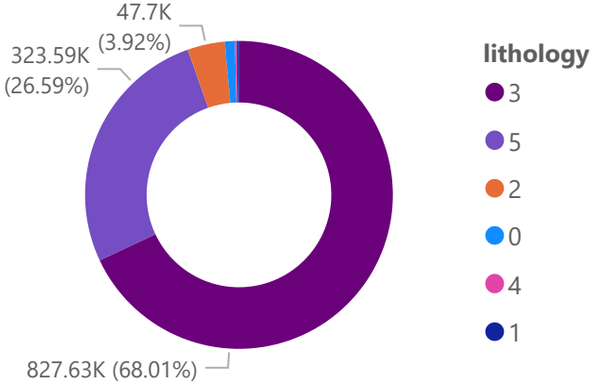
soils: 0, 3, 13, 2, 12

Flow_accum: 0 – 1405860

Sum of rainfall and %GT Sum of rainfall by Lund_use



Sum of rainfall by lithology



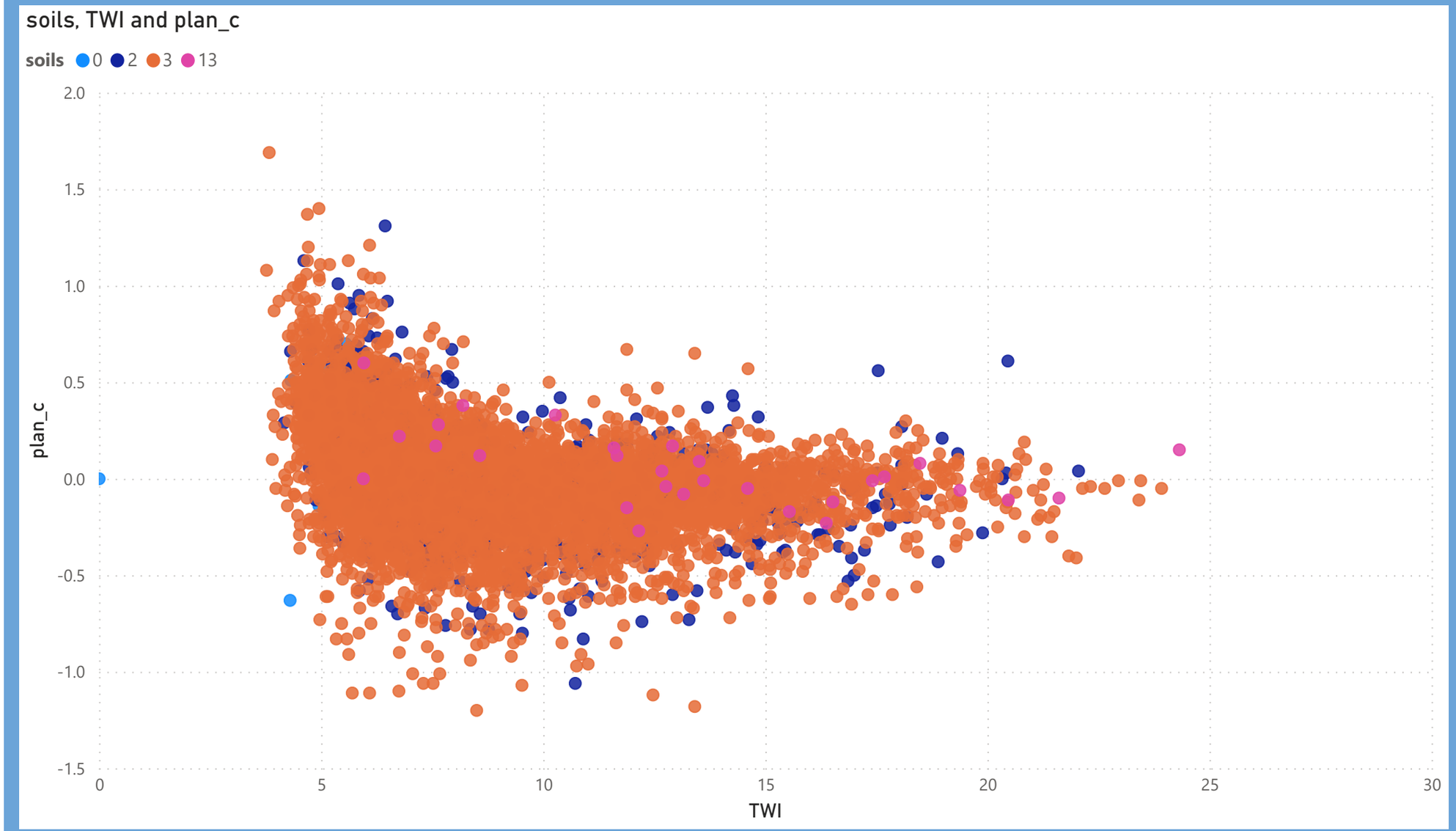
Y Factor Selection

- [x] aspect
- [ ] dem
- [ ] dist_river
- [ ] plan_c
- [ ] Profile_cu
- [ ] rainfall
- [ ] Slope
- [ ] SPI
- [ ] TPI
- [ ] TRI
- [ ] TWI

Flood Factors Correlation Analysis

Lagend Selection

Lund_use	F_NF
lithology	soils



Y Factor Selection

- [ ] aspect
- [ ] dem
- [ ] dist_river
- [x] plan_c
- [ ] Profile_cu
- [ ] rainfall
- [ ] Slope
- [ ] SPI
- [ ] TPI
- [ ] TRI
- [ ] TWI

X Factor Selection

- [ ] aspect
- [ ] dem
- [ ] dist_river
- [ ] plan_c
- [ ] Profile_cu
- [ ] rainfall
- [ ] Slope
- [ ] SPI
- [ ] TPI
- [ ] TRI
- [x] TWI

Flood Cause Analysis Influential Factors

Flow_accum

0 1405860

lithology

0	2	4
1	3	5

soils

0	3	13
2	12	

F_NF

0

1

Lund_use

0	32	97
1	55	
16	68	

Key influencers | Top segments

What influences rainfall to Increase ?

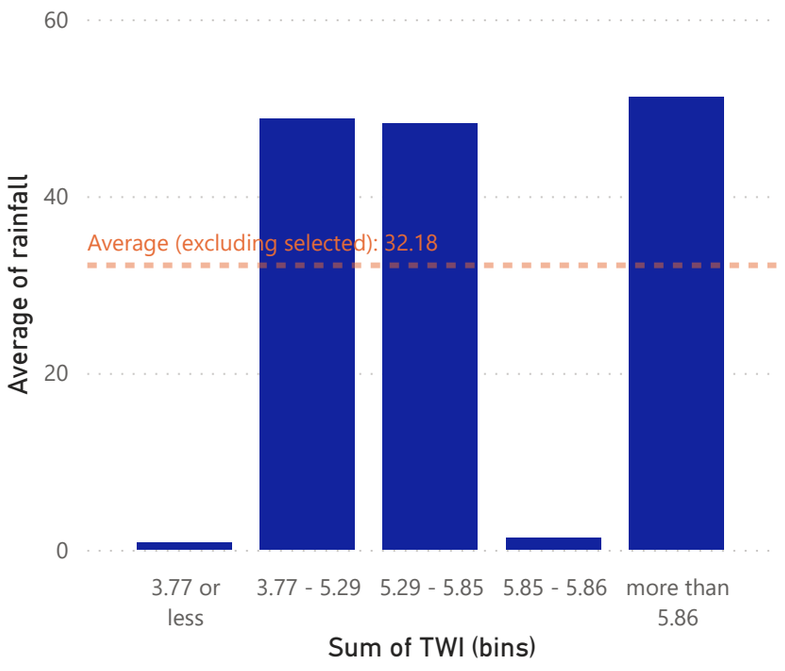
When...

....the average of rainfall increases by

Sum of TWI is more than 5.86 19.82

Sum of TWI is 5.29 - 5.85 1.69

rainfall is more likely to increase when Sum of TWI is more than 5.86 than otherwise (on average).



Only show values that are influencers

Flood Breakdown Analysis

Flow_accum

0 1405860

lithology

0	2	4
1	3	5

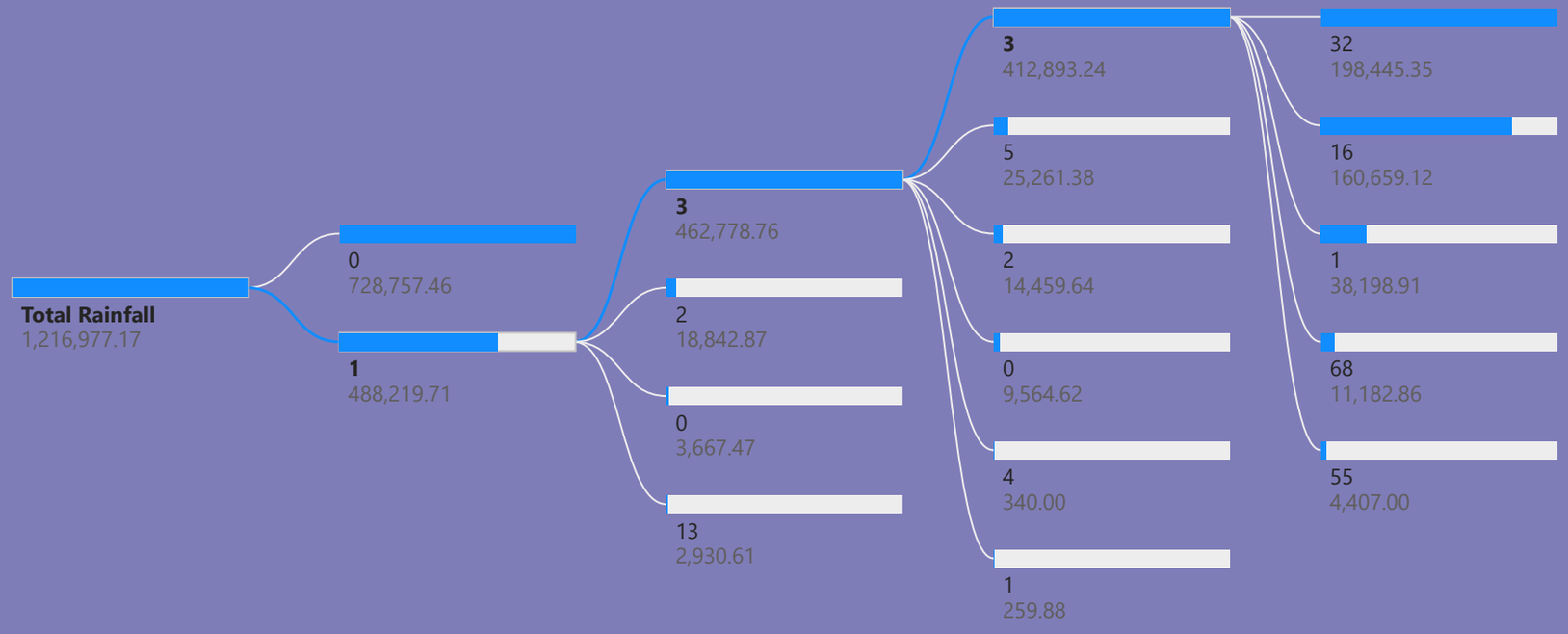
soils

0	3	13
2	12	

Rainfall Breakdown against Factors

Rainfall Distribution Cause

F_NF 1 | soils 3 | lithology 3 | Lund_use



F_NF

0
1

Lund_use

0	32	97
1	55	
16	68	

TWI Breakdown Analysis

Flow_accum

0 1405860

lithology

0	2	4
1	3	5

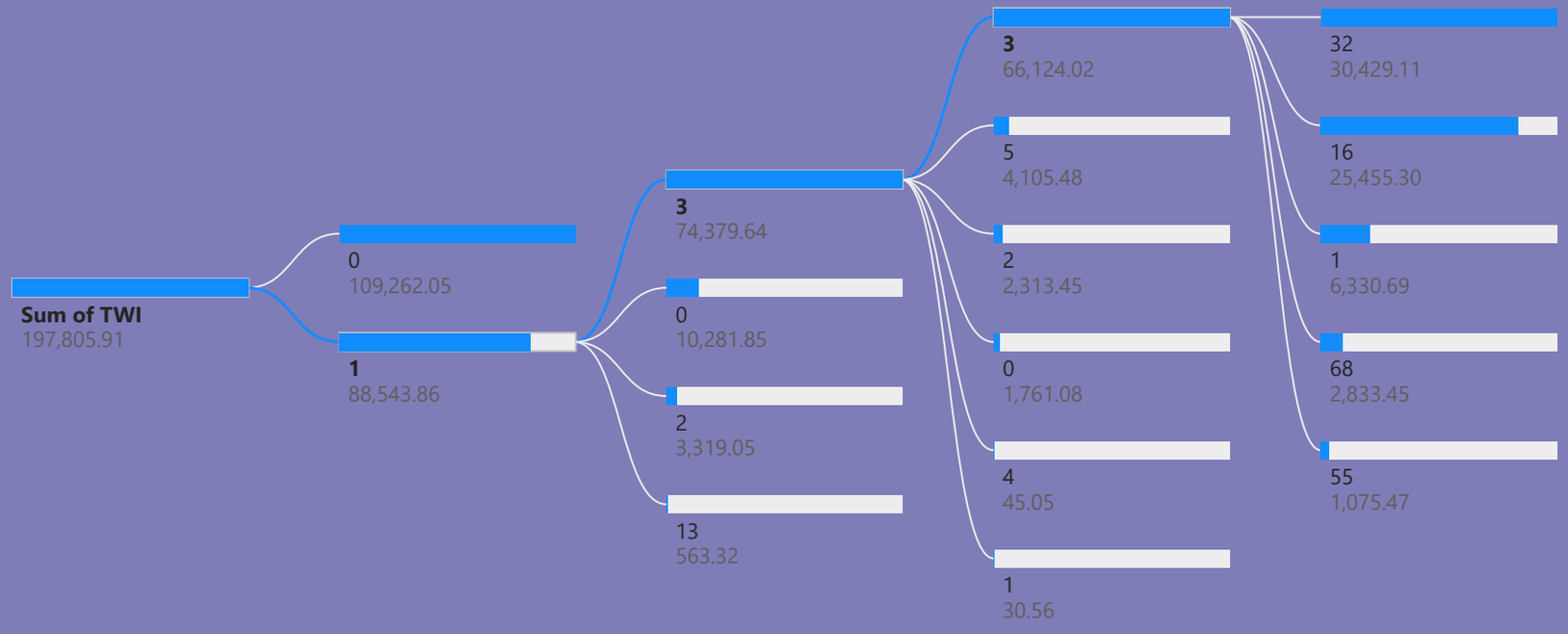
soils

0	3	13
2	12	

Rainfall Breakdown against Factors

Rainfall Distribution Cause

F_NF 1 | soils 3 | lithology 3 | Lund_use



F_NF

0
1

Lund_use

0	32	97
1	55	
16	68	

dist_river

0.00 5,202.04

Flow_accum

0 1405860

plan_c

-1.20 1.69

Profile_cu

-1.99 1.68

rainfall

0.00 54.83

Slope

0.00 38.99

Lagend Selection

Lund_use | F_NF | lithology | soils

Measured in mm	Measured in mm	Measured in mm	Total Rainfall Counts
1.22M	46.81	54.83	26.00K
Sum of rainfall	Average Rainfall	Max Rainfall	Rainfall Frequency

lithology	Sum of rainfall	%GT Sum of rainfall
0	12,712.30	1.04%
1	2,579.13	0.21%
2	47,701.13	3.92%
3	827,629.60	68.01%
4	2,769.70	0.23%
5	323,585.31	26.59%
Total	**1,216,977.17**	**100.00%**

F_NF	Land use	lithology	Soil	%GT of Total Rainfall
0	1	3	3	1.90%
0	16	3	3	20.30%
0	16	5	2	1.69%
0	32	2	3	1.76%
0	32	3	3	3.67%
0	55	2	3	8.73%
0	55	3	3	3.46%
0	55	5	3	42.63%
0	68	1	3	1.84%
0	68	2	3	3.52%
0	68	3	3	1.88%
0	68	5	2	1.68%
0	68	5	3	3.26%
1	68	3	3	3.69%
Total				**100.00%**

F_NF	0	1	2	3	4	5	Total
0	1	38	664	7646	36	6176	**14561**
1	2283	13	306	8235	18	584	**11439**
Total	**2284**	**51**	**970**	**15881**	**54**	**6760**	**26000**

Lund_use	0	1	2	3	4	5	Total
0	220		2	1			**223**
1	20	6	62	849	3	88	**1028**
16	931	4	151	3407	10	332	**4835**
32	99	2	85	3954	3	108	**4251**
Total	**2284**	**51**	**970**	**15881**	**54**	**6760**	**26000**

lithology	Count of lithology
0	2284
1	51
2	970
3	15881
Total	**26000**

soils	0	1	2	3	4	5	Total
0	2056	1	3	50		4	**2114**
2	10	29	103	1342	37	464	**1985**
3	210	21	864	14374	17	6292	**21778**
12				3			**3**
Total	**2284**	**51**	**970**	**15881**	**54**	**6760**	**26000**