

SUPPLEMENTARY MATERIAL

Hydrogeology of Volcanic Highlands Affect Prioritization of Land Management Practices

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Table S1. Rainfall and streamflow data for Gomit watershed.

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
6/27/2015	6.2	0.00000	0.00770
6/28/2015	8	0.00000	0.01300
6/29/2015	0	0.00000	0.00000
6/30/2015	17	0.00000	0.01901
7/1/2015	0	0.00000	0.00000
7/2/2015	0	0.00000	0.00000
7/3/2015	23.5	0.00000	0.10974
7/4/2015	0	0.00000	0.00000
7/5/2015	0	0.00000	0.00000
7/6/2015	4.2	0.00000	0.00000
7/7/2015	6.4	0.00000	0.00000
7/8/2015	8	0.00000	0.00529
7/9/2015	32	0.00000	0.50396
7/10/2015	35	0.01499	1.15713
7/11/2015	20	0.91734	1.29576
7/12/2015	14.8	0.00000	0.01179
7/13/2015	17.2	0.00000	0.01324
7/14/2015	15	0.00000	0.01035
7/15/2015	3	0.00000	0.05632
7/16/2015	15	0.00573	0.98530
7/17/2015	9.3	0.00000	0.14897
7/18/2015	7.5	0.00000	0.01733
7/19/2015	20	0.00000	0.28760
7/20/2015	1	0.00000	0.03273
7/21/2015	2.8	0.00000	0.00794
7/22/2015	5.4	0.00000	0.01324
7/23/2015	11.9	0.00000	0.12226
7/24/2015	12.7	0.00705	0.38098
7/25/2015	3.1	0.00000	0.02816
7/26/2015	26.4	0.00000	2.04785
7/27/2015	0.3	0.00000	0.02479
7/28/2015	15.5	0.00000	0.19759
7/29/2015	45	0.74807	4.08246
7/30/2015	32	0.00529	0.36076
7/31/2015	10.9	0.00000	0.01179
8/1/2015	7.1	0.00000	0.01925
8/2/2015	8.9	0.00000	0.02623
8/3/2015	0	0.00000	0.00939
8/4/2015	10	0.00000	0.00915
8/5/2015	20	0.00000	0.00915
8/6/2015	5.5	0.00529	0.17858
8/7/2015	0	0.00000	0.02575

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
8/8/2015	7.3	0.00000	0.03778
8/9/2015	3.7	0.00000	0.04910
8/10/2015	8.5	0.00970	0.31696
8/11/2015	1.3	0.00000	0.02575
8/12/2015	0	0.00000	0.02166
8/13/2015	4.2	0.00000	0.02792
8/14/2015	7.4	0.00000	0.03778
8/15/2015	5.2	0.00000	0.04910
8/16/2015	10.5	0.00000	0.07316
8/17/2015	12	0.00000	0.74391
8/18/2015	2.7	0.00000	0.20144
8/19/2015	3.5	0.00000	0.01733
8/20/2015	0	0.00000	0.02623
8/21/2015	0	0.00000	0.03273
8/22/2015	4.7	0.00000	0.04308
8/23/2015	0	0.00000	0.01324
8/24/2015	27.5	0.15429	0.21010
8/25/2015	15.8	0.00000	0.52345
8/26/2015	17.9	0.00970	0.62839
8/27/2015	13.4	0.00000	0.29963
8/28/2015	2.7	0.00000	0.30733
8/29/2015	18	0.49989	2.45169
8/30/2015	15	0.11329	0.47339
8/31/2015	16	0.31430	0.64908
9/1/2015	15.8	0.60127	0.76436
9/2/2015	6.5	0.34913	0.81466
9/3/2015	6.5	0.22261	0.56341
9/4/2015	4.5	0.21953	0.39349
9/5/2015	0	0.19131	0.49506
9/6/2015	4.5	0.15120	0.37352
9/7/2015	0	0.09213	0.30204
9/8/2015	0	0.11461	0.30204
9/9/2015	0	0.05995	0.32370
9/10/2015	14.7	0.17192	0.80167
9/11/2015	7.9	0.16398	0.47339
9/12/2015	3.6	0.16002	0.47339
9/13/2015	5.2	1.02622	0.46834
9/14/2015	9.8	3.17652	0.57496
9/15/2015	16.3	0.23143	0.56341
9/16/2015	2.5	0.17809	0.47965
9/17/2015	0	0.15429	0.26955
9/18/2015	0	0.28477	0.28543
9/19/2015	3.6	0.37249	0.30204
9/20/2015	0	0.38219	0.30204
9/21/2015	0	0.33590	0.28543
9/22/2015	18.2	0.42671	0.84956
9/23/2015	0	0.31827	0.28543
9/24/2015	0	0.30989	0.28543
9/25/2015	0	0.26890	0.26955
9/26/2015	0	0.18426	0.18363
9/27/2015	0	0.14856	0.09795
9/28/2015	0	0.12696	0.09795
9/29/2015	0	0.08596	0.09795

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
9/30/2015	0	0.09874	0.08929
10/1/2015	0	0.05687	0.08496
10/2/2015	0	0.05334	0.08086
10/3/2015	0	0.01807	0.08086
10/4/2015	0	0.00529	0.08086
10/5/2015	0	0.00000	0.08086
10/6/2015	0	0.00000	0.08086
10/7/2015	0	0.00000	0.08086
10/8/2015	0	0.00000	0.08086
10/9/2015	0	0.00000	0.08086
10/10/2015	0	0.00000	0.09410
10/11/2015	3.5	0.00000	0.10710
10/12/2015	0	0.00000	0.10710
10/13/2015	0	0.00000	0.10710
10/14/2015	0	0.00000	0.10710
10/15/2015	0	0.00000	0.07316
10/16/2015	0	0.00000	0.06570
10/17/2015	1.8	0.00000	0.06570
10/18/2015	0	0.00000	0.04621
10/19/2015	0	0.00000	0.04308
10/20/2015	0	0.00000	0.04308
10/21/2015	0	0.00000	0.04308
10/22/2015	0	0.00000	0.03778
10/23/2015	0	0.00000	0.03778
10/24/2015	0	0.00000	0.03778
10/25/2015	0	0.00000	0.03778
10/26/2015	0	0.00000	0.03778
10/27/2015	0	0.00000	0.03778
10/28/2015	0	0.00000	0.03778
10/29/2015	0	0.00000	0.02792
10/30/2015	0	0.00000	0.01973
10/31/2015	0	0.00000	0.01468
11/1/2015	0	0.00000	0.01179
11/2/2015	0	0.00000	0.00794
11/3/2015	0	0.00000	0.00698
11/4/2015	0	0.00000	0.00337
11/5/2015	0	0.00000	0.00289
11/6/2015	0	0.00000	0.00217
11/7/2015	0	0.00000	0.00217
11/8/2015	0	0.00000	0.00217
11/9/2015	0	0.00000	0.00217
11/10/2015	0	0.00000	0.00217
11/11/2015	0	0.00000	0.00217
11/12/2015	0	0.00000	0.00217
11/13/2015	0	0.00000	0.00217
11/14/2015	0	0.00000	0.00289
11/15/2015	0	0.00000	0.00337
11/16/2015	0	0.00000	0.00337
11/17/2015	2.3	0.00000	0.00505
5/6/2016	0	0.00000	0.00000
5/7/2016	0	0.00000	0.00000
5/8/2016	0	0.00000	0.00000
5/9/2016	0	0.00000	0.00000

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
5/10/2016	0.3	0.00000	0.00000
5/11/2016	0	0.00000	0.00000
5/12/2016	2.5	0.00000	0.00000
5/13/2016	11.4	0.15605	0.23249
5/14/2016	1	0.00000	0.00939
5/15/2016	0	0.00000	0.00698
5/16/2016	0.5	0.00000	0.00000
5/17/2016	0.5	0.00000	0.00000
5/18/2016	0	0.00000	0.00000
5/19/2016	0	0.00000	0.00000
5/20/2016	0	0.00000	0.00000
5/21/2016	0	0.00000	0.00000
5/22/2016	0	0.00000	0.00000
5/23/2016	0	0.00000	0.00000
5/24/2016	0	0.00000	0.00000
5/25/2016	0	0.00000	0.00000
5/26/2016	0	0.00000	0.00000
5/27/2016	0	0.00000	0.00000
5/28/2016	4.8	0.00000	0.00000
5/29/2016	0.8	0.00000	0.00000
5/30/2016	2.5	0.00000	0.00000
5/31/2016	0.3	0.00000	0.00000
6/1/2016	0.8	0.00000	0.00000
6/2/2016	0.3	0.00000	0.00000
6/3/2016	0	0.00000	0.00000
6/4/2016	0	0.00000	0.00000
6/5/2016	0	0.00000	0.00000
6/6/2016	0	0.00000	0.00000
6/7/2016	0.8	0.00000	0.00000
6/8/2016	0	0.00000	0.00000
6/9/2016	0	0.00000	0.00000
6/10/2016	0	0.00000	0.00000
6/11/2016	3.6	0.00000	0.00000
6/12/2016	0	0.00000	0.00000
6/13/2016	0	0.00000	0.00000
6/14/2016	0	0.00000	0.00000
6/15/2016	1	0.00000	0.00000
6/16/2016	6.6	0.00000	0.00000
6/17/2016	3.3	0.00000	0.00000
6/18/2016	2.5	0.00000	0.00000
6/19/2016	0	0.00000	0.00000
6/20/2016	0	0.00000	0.00000
6/21/2016	4.8	0.00000	0.26016
6/22/2016	2.8	0.00000	0.01468
6/23/2016	9.4	0.01587	0.01324
6/24/2016	0	0.00000	0.03778
6/25/2016	9.5	0.01587	0.03514
6/26/2016	10	0.34428	0.26016
6/27/2016	30.8	0.14591	0.34006
6/28/2016	8.5	0.00000	0.17785
6/29/2016	30.1	0.34031	0.80528
6/30/2016	4.5	0.00309	0.42887
7/1/2016	36	2.39011	4.31326

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
7/2/2016	25	0.05290	0.40914
7/3/2016	0	0.00000	0.11865
7/4/2016	5.5	0.00000	0.02359
7/5/2016	11	0.04849	0.03273
7/6/2016	24.0	0.22438	8.48164
7/7/2016	65.5	0.00000	0.08544
7/8/2016	5.5	0.00000	0.06522
7/9/2016	20	1.41634	0.27821
7/10/2016	0.8	0.00000	0.02359
7/11/2016	20	0.43420	0.88927
7/12/2016	5.6	0.00000	0.03273
7/13/2016	9.7	0.00000	0.04308
7/14/2016	11.9	0.29270	0.56822
7/15/2016	6.1	0.01367	0.04910
7/16/2016	0.3	0.00000	0.05872
7/17/2016	3.6	0.00000	0.04308
7/18/2016	1.8	0.00000	0.03778
7/19/2016	0	0.09522	0.03273
7/20/2016	27	0.04584	1.12970
7/21/2016	6.6	0.37602	0.04910
7/22/2016	0	0.36147	0.04910
7/23/2016	20	0.34251	0.11191
7/24/2016	35	0.77540	0.58121
7/25/2016	9.2	0.17412	0.12178
7/26/2016	5.3	0.27463	0.15403
7/27/2016	15	0.56336	0.27990
7/28/2016	0.8	0.39762	0.19446
7/29/2016	0.8	0.67665	0.23249
7/30/2016	62.0	1.23384	1.04209
7/31/2016	0.8	2.13399	0.40168
8/1/2016	0.8	1.12320	0.51720
8/2/2016	0.8	0.61935	0.56341
8/3/2016	30	0.91513	0.60576
8/4/2016	4.5	0.76349	0.64932
8/5/2016	9.5	0.48137	0.70179
8/6/2016	15	2.09123	1.31934
8/7/2016	9.5	0.77672	0.88662
8/8/2016	15	1.36697	1.80838
8/9/2016	11	0.89133	1.15376
8/10/2016	7.5	0.72514	0.88686
8/11/2016	0.2	0.53383	0.85654
8/12/2016	0.2	0.73793	0.88662
8/13/2016	0	1.02446	0.93283
8/14/2016	8.5	0.90147	0.96195
8/15/2016	10	1.30438	0.95449
8/16/2016	0	0.93762	0.87170
8/17/2016	0	0.98302	0.78386
8/18/2016	0.3	1.63146	0.78386
8/19/2016	10.4	1.23473	1.12224
8/20/2016	7.9	0.86356	0.88662
8/21/2016	6.6	0.94291	0.93283
8/22/2016	2.3	0.85298	0.90251
8/23/2016	1.3	0.83623	0.91743

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
8/24/2016	2	0.77672	0.85654
8/25/2016	0.8	0.57659	0.81250
8/26/2016	8.9	0.49856	0.78386
8/27/2016	8.6	1.05047	1.10756
8/28/2016	0.3	0.36147	0.88686
8/29/2016	32.8	0.65946	0.84956
8/30/2016	44.2	1.18624	1.23848
8/31/2016	3.1	0.75247	0.83464
9/1/2016	38.4	0.79567	1.11478
9/2/2016	18	1.31231	0.91719
9/3/2016	4.1	0.86532	0.94847
9/4/2016	1.8	0.47829	0.88662
9/5/2016	0	0.42539	0.85654
9/6/2016	0.3	0.37822	0.78386
9/7/2016	23.9	0.88472	1.05750
9/8/2016	14.5	0.52149	0.97182
9/9/2016	15	1.04209	0.81250
9/10/2016	0	0.31430	0.72850
9/11/2016	0	0.27066	0.67508
9/12/2016	0	0.36852	0.45751
9/13/2016	0	0.31607	0.55185
9/14/2016	0	0.28697	0.72850
9/15/2016	0	0.27463	0.64932
9/16/2016	0	0.24553	0.50613
9/17/2016	0	0.24201	0.49506
9/18/2016	0	0.20101	0.51720
9/19/2016	0	0.20101	0.48423
9/20/2016	6.5	0.18823	0.45751
9/21/2016	0	0.16927	0.51720
9/22/2016	0	0.18470	0.52875
9/23/2016	0	0.16927	0.49506
9/24/2016	0	0.14062	0.49506
9/25/2016	0	0.14062	0.50613
9/26/2016	7.1	0.14062	0.49506
9/27/2016	4.1	0.12211	0.47339
9/28/2016	0.3	0.10536	0.24669
9/29/2016	0	0.08243	0.22478
9/30/2016	0	0.07185	0.22478
10/1/2016	0	0.05466	0.22478
10/2/2016	0	0.04144	0.21083
10/3/2016	0	0.04011	0.21781
10/4/2016	0	0.03350	0.21083
10/5/2016	0	0.02777	0.21083
10/6/2016	0.8	0.02777	0.21083
10/7/2016	0.5	0.02777	0.19085
10/8/2016	0.3	0.02204	0.19085
10/9/2016	0	0.00926	0.16582
10/10/2016	0	0.00000	0.16582
10/11/2016	0	0.00000	0.15403
10/12/2016	0	0.00000	0.15403
10/13/2016	0	0.00000	0.15403
10/14/2016	0	0.00000	0.13213
10/15/2016	1	0.00000	0.13213

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
10/16/2016	0	0.00000	0.13213
10/17/2016	0	0.00000	0.13213
10/18/2016	0	0.00000	0.13742
10/19/2016	0	0.00000	0.13213
10/20/2016	0	0.00000	0.13213
10/21/2016	0	0.00000	0.13213
10/22/2016	0	0.00000	0.12178
10/23/2016	0	0.00000	0.13742
10/24/2016	0	0.00000	0.12683
10/25/2016	0	0.00000	0.13742
10/26/2016	0	0.00000	0.12178
10/27/2016	6	0.00000	0.12683
10/28/2016	0	0.00000	0.13213
10/29/2016	0	0.00000	0.13213
10/30/2016	0	0.00000	0.13213
10/31/2016	0	0.00000	0.12683
11/1/2016	0	0.00000	0.12683
11/2/2016	0	0.00000	0.12178
11/3/2016	0	0.00000	0.12178
11/4/2016	0	0.00000	0.11432
11/5/2016	0	0.00000	0.13213
11/6/2016	0	0.00000	0.12178
11/7/2016	0	0.00000	0.12178
11/8/2016	0	0.00000	0.12178
11/9/2016	0	0.00000	0.12178
3/27/2017	0	0.00000	0.00000
3/28/2017	0	0.00000	0.00000
3/29/2017	0	0.00000	0.00000
3/30/2017	0	0.00000	0.00000
3/31/2017	30	0.00000	0.17232
4/1/2017	0	0.00000	0.00000
4/2/2017	0	0.00000	0.00000
4/3/2017	0	0.00000	0.00000
4/4/2017	0	0.00000	0.00000
4/5/2017	0	0.00000	0.00000
4/6/2017	0	0.00000	0.00000
4/7/2017	0	0.00000	0.00000
4/8/2017	0	0.00000	0.00000
4/9/2017	0	0.00000	0.00000
4/10/2017	0	0.00000	0.00000
4/11/2017	0	0.00000	0.00000
4/12/2017	0	0.00000	0.00000
4/13/2017	0	0.00000	0.00000
4/14/2017	0	0.00000	0.00000
4/15/2017	0	0.00000	0.00000
4/16/2017	0	0.00000	0.00000
4/17/2017	0	0.00000	0.00000
4/18/2017	0	0.00000	0.00000
4/19/2017	0	0.00000	0.00000
4/20/2017	0	0.00000	0.00000
4/21/2017	0	0.00000	0.00000
4/22/2017	0	0.00000	0.00000
4/23/2017	0	0.00000	0.00000

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
4/24/2017	0	0.00000	0.00000
4/25/2017	10	0.01146	0.07581
4/26/2017	0	0.00000	0.00000
4/27/2017	0	0.00000	0.00000
4/28/2017	0	0.00000	0.00000
4/29/2017	7.5	0.09830	0.25078
4/30/2017	0	0.00000	0.00000
5/1/2017	0	0.00000	0.00000
5/2/2017	0	0.00000	0.00000
5/3/2017	0	0.00000	0.00000
5/4/2017	0	0.00000	0.00000
5/5/2017	0	0.00000	0.00000
5/6/2017	6.9	0.00000	0.24259
5/7/2017	0	0.00000	0.00000
5/8/2017	15	0.07891	0.23080
5/9/2017	0	0.00000	0.00000
5/10/2017	0	0.00000	0.00000
5/11/2017	0	0.00000	0.00000
5/12/2017	0	0.00000	0.00505
5/13/2017	3.3	0.05907	0.01251
5/14/2017	26.4	0.00000	0.20770
5/15/2017	0	0.04629	0.00698
5/16/2017	0	0.00000	0.00602
5/17/2017	0	0.00000	0.01179
5/18/2017	22	0.00353	0.11047
5/19/2017	5.5	0.00000	0.10734
5/20/2017	6.5	0.06216	0.11793
5/21/2017	0	0.00000	0.02792
5/22/2017	0	0.00000	0.01468
5/23/2017	15	0.06965	0.09771
5/24/2017	0	0.00000	0.01179
5/25/2017	0	0.00000	0.01035
5/26/2017	0	0.00000	0.01179
5/27/2017	0	0.00000	0.01733
5/28/2017	0	0.00000	0.01973
5/29/2017	25	0.87105	0.12707
5/30/2017	0	0.00000	0.01179
5/31/2017	0	0.00000	0.01179
6/1/2017	0	0.00000	0.00915
6/2/2017	0	0.00000	0.00698
6/3/2017	3	0.00000	0.00337
6/4/2017	0	0.00000	0.04043
6/5/2017	0	0.00000	0.00217
6/6/2017	0	0.00000	0.00144
6/7/2017	0	0.00000	0.00096
6/8/2017	1.5	0.00000	0.00096
6/9/2017	0	0.00000	0.00096
6/10/2017	0	0.00000	0.00096
6/11/2017	0	0.00000	0.00096
6/12/2017	0	0.00000	0.00096
6/13/2017	0	0.00000	0.00096
6/14/2017	0	0.00000	0.00096
6/15/2017	0	0.00000	0.00096

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
6/16/2017	0	0.00000	0.00217
6/17/2017	0	0.00000	0.00217
6/18/2017	0	0.00000	0.00217
6/19/2017	6.5	0.00000	0.09506
6/20/2017	0	0.00000	0.03273
6/21/2017	11	0.05290	0.27484
6/22/2017	0	0.00000	0.04308
6/23/2017	7.1	0.01058	0.19037
6/24/2017	16.5	0.21027	0.47797
6/25/2017	27.4	0.81948	0.46978
6/26/2017	5.1	0.08993	0.24019
6/27/2017	0	0.00000	0.08086
6/28/2017	2.3	0.00000	0.08496
6/29/2017	10.2	0.03306	0.36293
6/30/2017	5.8	0.12122	0.10710
7/1/2017	9.7	0.18558	0.12683
7/2/2017	26.2	1.98896	0.38242
7/3/2017	2.8	0.00000	0.16004
7/4/2017	28.7	2.63873	0.60456
7/5/2017	3.1	0.00000	0.58651
7/6/2017	11.7	0.13930	0.16582
7/7/2017	35.1	0.93938	0.44764
7/8/2017	1.8	0.00000	0.16582
7/9/2017	16.5	0.18867	0.33357
7/10/2017	0.8	0.00000	0.44981
7/11/2017	0.3	0.00000	0.19085
7/12/2017	3.1	0.00000	0.17809
7/13/2017	27.5	0.38527	0.94101
7/14/2017	32.5	0.34207	1.04643
7/15/2017	0	0.00000	0.19085
7/16/2017	5	0.00000	0.48326
7/17/2017	9.1	0.06083	0.39542
7/18/2017	4.1	0.00000	0.21781
7/19/2017	20.6	0.15693	0.50396
7/20/2017	4.3	0.00000	0.22478
7/21/2017	11.4	0.00000	0.23200
7/22/2017	4.6	0.00000	0.21781
7/23/2017	0.5	0.00000	0.21083
7/24/2017	16.5	0.03791	0.59084
7/25/2017	2.5	0.00000	0.21781
7/26/2017	11	0.00000	0.26979
7/27/2017	0	0.00000	0.28543
7/28/2017	0	0.00000	0.29362
7/29/2017	6.5	0.00000	0.52730
7/30/2017	10	0.03482	0.59878
7/31/2017	17	0.03350	0.70275
8/1/2017	15	0.44787	0.64090
8/2/2017	0	0.00000	0.41154
8/3/2017	8.5	0.00000	0.66184
8/4/2017	1.8	0.00000	0.44187
8/5/2017	15	0.15517	0.65510
8/6/2017	0	0.00000	0.44187
8/7/2017	25	0.68723	0.75859

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
8/8/2017	20	0.00000	0.57977
8/9/2017	15	0.00000	0.42141
8/10/2017	6.5	0.00000	0.42141
8/11/2017	3	0.47256	0.63561
8/12/2017	4	0.00000	0.45751
8/13/2017	10	0.00000	0.44187
8/14/2017	15	0.47476	0.70732
8/15/2017	10	0.00000	0.47339
8/16/2017	15	0.05158	0.49506
8/17/2017	15	0.22570	0.49506
8/18/2017	15	0.05466	0.49506
8/19/2017	20	0.27287	0.74583
8/20/2017	15	0.02733	0.76629
8/21/2017	12	0.00000	0.77953
8/22/2017	0	0.79700	0.51720
8/23/2017	0	0.63918	0.49506
8/24/2017	10	0.89794	0.51720
8/25/2017	4	0.88869	0.69144
8/26/2017	2	0.57703	0.81226
8/27/2017	2.5	0.85607	0.51720
8/28/2017	15	1.00727	0.75377
8/29/2017	12	0.78245	0.52875
8/30/2017	5.5	0.73308	0.51720
8/31/2017	0	0.78950	0.56341
9/1/2017	20	1.19593	0.74655
9/2/2017	5	0.63918	0.56341
9/3/2017	20	0.72514	0.79637
9/4/2017	0	0.57703	0.56341
9/5/2017	10	0.52545	0.76557
9/6/2017	1.8	0.52545	0.56341
9/7/2017	11.9	0.39144	0.67941
9/8/2017	0	1.21930	0.56341
9/9/2017	22	0.46286	0.72610
9/10/2017	0	0.42671	0.67844
9/11/2017	0	0.56072	0.56341
9/12/2017	0	0.36323	0.56341
9/13/2017	0	0.36323	0.56341
9/14/2017	10	0.46286	0.67315
9/15/2017	18	0.44567	0.65967
9/16/2017	0	0.32268	0.56341
9/17/2017	0	0.27683	0.56341
9/18/2017	0	0.27683	0.56341
9/19/2017	0	0.23848	0.56341
9/20/2017	0	0.23848	0.56341
9/21/2017	0	0.23848	0.56341
9/22/2017	0	0.23848	0.56341
9/23/2017	0	0.17192	0.56341
9/24/2017	0	0.17192	0.56341
9/25/2017	0	0.17192	0.56341
9/26/2017	0	0.17192	0.56341
9/27/2017	0	0.14591	0.56341
9/28/2017	0	0.14282	0.56341
9/29/2017	4	0.14282	0.54006

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
9/30/2017	0	0.20366	0.54006
10/1/2017	0	0.14591	0.54006
10/2/2017	0	0.14282	0.54006
10/3/2017	0	0.08993	0.55185
10/4/2017	0	0.08993	0.54006
10/5/2017	0	0.05334	0.51720
10/6/2017	1.3	0.01807	0.51720
10/7/2017	0	0.00397	0.51720
10/8/2017	0	0.00000	0.51720
10/9/2017	0	0.00000	0.50613
10/10/2017	0	0.00000	0.51720
10/11/2017	1.3	0.00000	0.49506
10/12/2017	0	0.00000	0.49506
10/13/2017	0	0.00000	0.49506
10/14/2017	0	0.00000	0.49506
10/15/2017	0	0.00000	0.49530
10/16/2017	0	0.00000	0.47339
10/17/2017	0	0.00000	0.47339
10/18/2017	0	0.00000	0.44187
10/19/2017	0	0.00000	0.42141
10/20/2017	1.3	0.00000	0.41154
10/21/2017	0	0.00000	0.40168
10/22/2017	0	0.00000	0.34536
10/23/2017	20	0.00000	0.51190
10/24/2017	0	0.00000	0.39205
10/25/2017	0	0.00000	0.40168
10/26/2017	0	0.00000	0.41154
10/27/2017	0	0.00000	0.40168
10/28/2017	0	0.00000	0.38242
10/29/2017	0	0.00000	0.37304
10/30/2017	0	0.00000	0.36365
10/31/2017	0	0.00000	0.36365
11/1/2017	0	0.00000	0.38242
11/2/2017	0	0.00000	0.36365
11/3/2017	0	0.00000	0.34536
11/4/2017	4	0.00000	0.34536
11/5/2017	0	0.00000	0.33645
11/6/2017	0	0.00000	0.32755
11/7/2017	0	0.00000	0.32755
11/8/2017	0	0.00000	0.31479
11/9/2017	0	0.00000	0.30204
11/10/2017	0	0.00000	0.30204
11/11/2017	0	0.00000	0.30204
11/12/2017	0	0.00000	0.30204
11/13/2017	0	0.00000	0.25415
11/14/2017	0	0.00000	0.23922
11/15/2017	0	0.00000	0.23200
11/16/2017	0	0.00000	0.22478
11/17/2017	0	0.00000	0.17809
11/18/2017	0	0.00000	0.16582
11/19/2017	0	0.00000	0.16004
11/20/2017	0	0.00000	0.16004
11/21/2017	0	0.00000	0.15427

Date	Rainfall, mm	Streamflow, mm	
		Entire watershed - Weir 1	Forested watershed - Weir 2
11/22/2017	0	0.00000	0.14296
11/23/2017	0	0.00000	0.13742
11/24/2017	0	0.00000	0.13213
11/25/2017	0	0.00000	0.13237
11/26/2017	0	0.00000	0.11432
11/27/2017	0	0.00000	0.10710
11/28/2017	0	0.00000	0.10710

Table S2. Perched groundwater level data of Gomit watershed.

Well depth, cm	436	466	328	504	369	421	225	346	243
Slope	Mid	Bottom	Bottom	Bottom	Bottom	Mid	Bottom	Mid	Bottom
Elevation, m	1983	1976	1993	1994	1987	2022	2042	2029	2022
Date	Water level, cm								
	P2	P4	P5	P7	P10	P13	P16	P19	P23
7/14/2016	436	320	186	287	369	421	190	346	243
7/15/2016	436	320	186	287	369	421	182	346	150
7/16/2016	436	320	186	286	369	421	202	346	135
7/17/2016	436	317	184	284	369	421	205	346	163
7/18/2016	436	316	183	282	369	421	185	346	193
7/19/2016	436	316	183	276	369	421	190	346	201
7/20/2016	436	316	183	273	369	421	183	346	123
7/21/2016	436	316	181	264	350	421	175	346	113
7/22/2016	436	316	176	259	320	421	185	346	113
7/23/2016	436	316	173	256	282	421	185	346	115
7/24/2016	436	315	168	254	259	421	195	346	113
7/25/2016	436	315	162	248	242	421	185	346	103
7/26/2016	436	314	152	238	219	421	185	346	103
7/27/2016	436	313	152	238	219	421	225	346	93
7/28/2016	436	313	148	234	215	421	225	346	93
7/29/2016	436	313	88	174	203	421	225	346	83
7/30/2016	436	313	87	173	203	286	135	346	68
7/31/2016	436	310	85	171	201	286	132	346	63
8/1/2016	436	308	83	169	200	271	125	346	58
8/2/2016	436	306	78	164	139	266	120	346	43
8/3/2016	436	303	68	149	104	261	115	346	43
8/4/2016	436	286	62	134	96	261	115	346	58
8/5/2016	436	281	58	119	96	201	120	346	53
8/6/2016	436	281	18	119	93	191	115	346	53
8/7/2016	436	281	17	116	93	191	115	346	43
8/8/2016	436	282	17	116	92	196	113	346	43
8/9/2016	436	282	17	114	92	201	150	246	59
8/10/2016	436	282	48	112	90	201	155	241	61
8/11/2016	436	282	45	112	90	201	150	236	58
8/12/2016	436	281	43	109	84	196	151	236	58
8/13/2016	436	281	43	109	79	201	155	241	63
8/14/2016	436	279	42	107	75	221	157	246	63
8/15/2016	436	279	42	104	75	221	160	246	68
8/16/2016	436	279	43	104	73	211	160	241	63
8/17/2016	418	279	42	104	73	201	155	246	63
8/18/2016	410	280	42	89	71	201	155	241	63
8/19/2016	406	279	41	89	71	211	157	246	71
8/20/2016	383	279	41	78	71	201	155	241	63
8/21/2016	359	279	41	74	71	221	155	246	63
8/22/2016	347	278	38	64	69	201	160	241	63
8/23/2016	321	278	38	64	69	211	165	246	63
8/24/2016	303	278	38	54	69	221	165	246	63
8/25/2016	266	278	38	44	69	231	180	256	63
8/26/2016	226	278	38	44	69	221	165	246	53
8/27/2016	206	277	37	42	69	216	175	246	63
8/28/2016	183	277	37	42	69	211	165	246	63
8/29/2016	182	278	38	42	69	221	175	246	63
8/30/2016	182	278	38	44	69	221	175	246	63

Well depth, cm	436	466	328	504	369	421	225	346	243
Slope	Mid	Bottom	Bottom	Bottom	Bottom	Mid	Bottom	Mid	Bottom
Elevation, m	1983	1976	1993	1994	1987	2022	2042	2029	2022
Date	Water level, cm								
	P2	P4	P5	P7	P10	P13	P16	P19	P23
8/31/2016	176	278	38	44	69	211	160	246	63
9/1/2016	173	278	38	44	69	221	165	246	63
9/2/2016	166	278	37	48	69	221	175	246	63
9/3/2016	161	281	38	49	69	221	175	246	63
9/4/2016	156	280	38	49	69	216	165	251	63
9/5/2016	156	280	38	49	69	221	165	246	63
9/6/2016	148	280	38	49	81	241	175	261	63
9/7/2016	148	280	38	54	81	241	175	266	63
9/8/2016	148	280	38	54	81	241	165	276	63
9/9/2016	146	282	43	64	83	241	165	286	63
9/10/2016	146	282	43	64	83	236	165	286	63
9/11/2016	143	284	43	64	83	221	165	266	63
9/12/2016	143	284	45	69	83	241	157	266	63
9/13/2016	141	284	45	69	83	241	157	261	63
9/14/2016	141	284	45	74	83	181	165	266	63
9/15/2016	141	284	45	74	83	181	165	266	63
9/16/2016	141	286	48	79	83	181	157	266	63
9/17/2016	139	286	48	81	83	181	157	256	63
9/18/2016	139	286	48	81	83	181	156	266	59
9/19/2016	139	286	48	94	83	183	155	266	58
9/20/2016	137	286	48	94	83	181	155	264	58
9/21/2016	137	286	48	94	83	181	155	266	63
9/22/2016	137	286	53	96	83	181	155	266	59
9/23/2016	137	286	53	96	83	191	160	276	63
9/24/2016	131	288	53	99	85	191	160	276	63
9/25/2016	131	288	53	99	85	191	160	276	63
9/26/2016	131	288	53	99	86	181	155	276	59
9/27/2016	131	291	61	99	86	191	155	276	63
9/28/2016	128	291	61	99	86	200	155	279	63
9/29/2016	128	291	61	104	86	199	157	279	63
9/30/2016	128	291	62	104	86	201	158	281	63
10/1/2016	128	293	62	104	87	203	160	286	63
10/2/2016	128	293	64	104	87	221	165	266	63
10/3/2016	136	296	68	119	89	221	165	266	63
10/4/2016	136	296	68	119	89	221	165	266	63
10/5/2016	136	296	68	119	89	221	175	266	63
10/6/2016	136	301	68	119	89	221	175	266	63
10/7/2016	156	301	70	119	89	221	175	266	63
10/8/2016	156	301	70	119	89	221	175	266	63
10/9/2016	156	301	70	119	89	221	175	266	63

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