

Spatial Hydro-Ecological Decision System (SHEDS)

Seamlessly linking hydro-ecological datasets, models, and decision support systems

What is

SHEDS is a collaborative support tools linking dynamic relationships

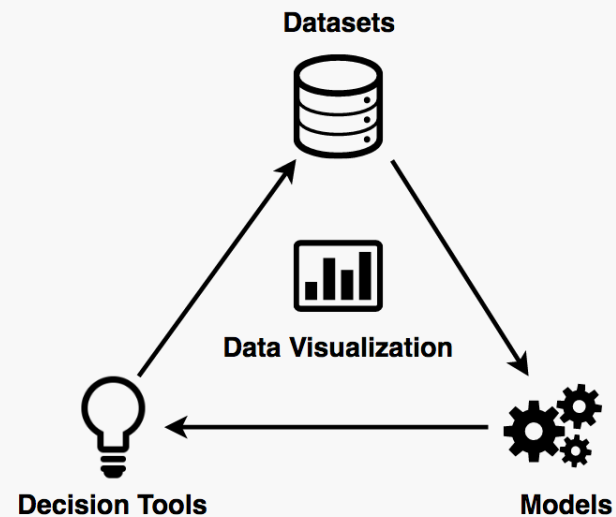
SHEDS seamlessly integrates hydro-ecological datasets, models, and decision support systems into a transparent decision support system, supporting management of hydro-ecological resources



Jeff Walker

Decision and decision support tools linking dynamic relationships

Decision support systems, supporting management of hydro-ecological resources



Interactive Catchment Explorer (ICE)

<http://ice.ecosheds.org>

SHEDS: INTERACTIVE CATCHMENT EXPLORER

ICE Home | SHEDS Home

CONTROLS

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AGGREGATION LEVEL

HUC8

STATE FILTER

14 states selected

MAP VARIABLE

Elevation (m)



+

-

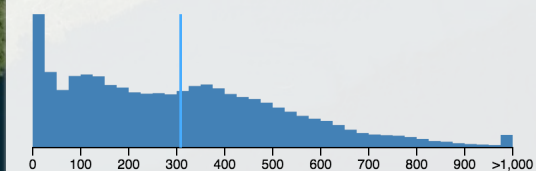


CATCHMENT FILTERS AND HISTOGRAMS

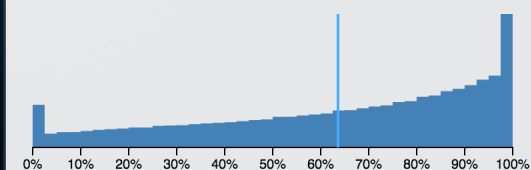
3 variables selected

All Catchments 386,483 of 386,483 filtered

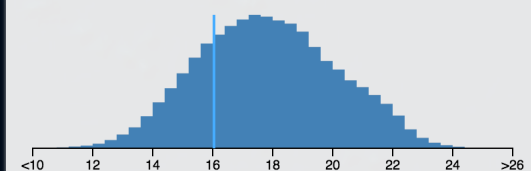
Elevation (m)
0.0 to >1,000.0 Mean: 309.3



Forest Cover (%)
0% to 100% Mean: 64%



Mean Summer Temp (C)
<10.0 to >26.0 Mean: 16.0



100 km

100 mi

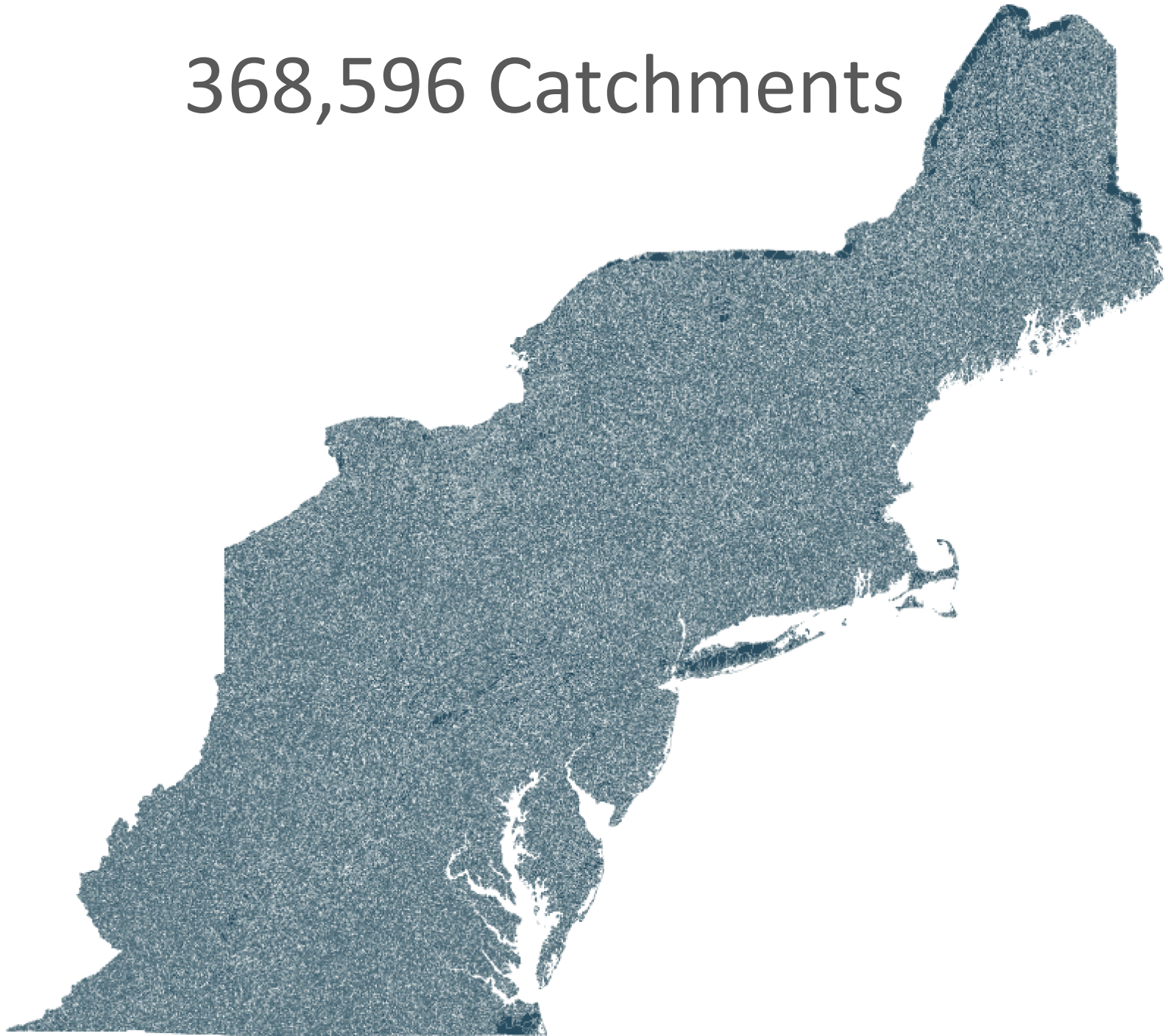
Leaflet | Image courtesy of NASA, Earthstar Geographics SIO, © 2017 Microsoft Corporation

Visual Information Seeking Mantra

Overview first, zoom and filter, then details-on-demand
Overview first, zoom and filter, then details-on-demand
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Overview first, zoom and filter, then details-on-demand
Overview first, zoom and filter, then details-on-demand

Schneiderman (1996). *The eyes have it: A task by data type taxonomy for information visualizations*

368,596 Catchments



Dataset

Variables

featureid	huc12	stusps	agriculture	elevation	forest	summer_prc	AreaSqKM	occ_current	plus2	plus4	plus6	max_temp_6	max_temp_6	min_forest_6	min_forest_6	meanJulyTem	meanDays_1
888931	5.01E+10	NY	0	466.729	82.8861	115.6613	3.6144	0.7737	0.7174	0.6534	0.5834	6	2.5	-20	-17	18.1043	37
888843	5.01E+10	NY	9.2715	445.855	70.8609	114.7903	10.2969	0.8426	0.799	0.747	0.6868	6	5.5	-20	-20	17.5763	23
889060	2.04E+10	NY	0	325.753	85.0768	107.727	3.3777	0.7656	0.7081	0.643	0.5722	6	2	-20	-15	20.0018	79
888790	2.02E+10	NY	0	281.614	88.5096	114.449	2.1618	0.7638	0.7061	0.6408	0.5699	6	2	-20	-14.5	20.2427	80
888808	2.03E+10	NY	9.1759	162.33	75.8709	122.2577	1.0593	0.8821	0.8475	0.805	0.7541	6	6	-20	-20	20.0618	78
888848	5.01E+10	NY	27.6165	499.851	65.2487	117.209	7.1046	0.8163	0.7674	0.7102	0.6454	6	4	-20	-20	17.4747	21
888985	2.03E+10	NY	0	179.114	12.9645	119.8723	2.1312	0.7646	0.707	0.6418	0.5709	6	2	-20	-20	21.6308	102
888906	5.01E+10	NY	0.1605	649.247	94.1413	115.8223	1.1214	0.8909	0.8585	0.8184	0.7699	6	6	-20	-20	17.9978	32
888823	2.03E+10	NY	19.2308	127.966	66.2722	113.0357	45.2853	0.7267	0.6638	0.5946	0.5213	6	0.5	-20	-13	20.1197	79
888858	5.01E+10	NY	5.8775	462.339	89.9007	115.4297	1.0872	0.8494	0.8073	0.7568	0.698	6	5.5	-20	-20	19.1595	62
889439	5.01E+10	NY	52.6209	490.881	40.2885	117.546	4.4298	0.7502	0.6905	0.6236	0.5517	6	1.5	-20	-14.5	19.6337	60
888945	5.01E+10	NY	54.321	503.209	40.0353	118.5613	1.0206	0.8564	0.8158	0.7669	0.7096	6	6	-20	-20	17.9041	34
888849	5.01E+10	NY	17.9348	542.913	78.8949	117.4387	0.9936	0.8722	0.8352	0.7901	0.7365	6	6	-20	-20	17.4261	22
888796	5.01E+10	NY	0	577.236	95.229	115.4997	0.9432	0.8898	0.857	0.8166	0.7678	6	6	-20	-20	17.9969	34
888842	2.02E+10	NY	0	342.607	91.9458	119.9687	1.2627	0.7666	0.7092	0.6443	0.5736	6	2	-20	-15.5	19.3338	61
889121	5.01E+10	NY	2.9762	540.915	87.963	115.074	3.7998	0.872	0.8349	0.7898	0.7362	6	6	-20	-20	18.1151	36
889052	2.04E+10	NY	0	345.859	98.4733	105.0776	33.453	0.8061	0.7554	0.6963	0.63	6	3.5	-20	-20	18.6796	45
889003	5.01E+10	NY	0	571.06	97.9532	116.5813	10.6596	0.8995	0.8693	0.8316	0.7858	6	6	-20	-20	17.548	24
888994	2.02E+10	NY	1.3568	236.058	87.8562	112.798	1.3266	0.796	0.7434	0.6827	0.6151	6	3	-20	-20	20.4669	85
889597	2.03E+10	NY	2.8546	122.952	86.642	115.9133	4.1301	0.7404	0.6792	0.6113	0.5388	6	1	-20	-9	20.4474	82
888821	2.03E+10	NY	5.1251	103.341	85.5781	111.3423	0.7551	0.7893	0.7356	0.6739	0.6055	6	3	-20	-20	20.2886	82
888804	5.01E+10	NY	0	606.29	100	117.1913	0.7515	0.9148	0.8886	0.8556	0.8148	6	6	-20	-20	17.1456	16
889051	2.04E+10	NY	4.6546	368.172	93.0712	103.5083	4.2345	0.7893	0.7356	0.6739	0.6055	6	3	-20	-20	18.6257	44
889187	2.04E+10	NY	0.4425	371.51	98.3038	112.4123	2.4408	0.8279	0.7813	0.7263	0.6634	6	4.5	-20	-20	19.5845	68
889436	2.03E+10	NY	4.7122	135.707	49.4184	120.6653	9.1197	0.814	0.7647	0.7071	0.6419	6	4	-20	-20	21.8496	104
888888	5.01E+10	NY	0	557.398	99.1611	116.8403	8.2557	0.8949	0.8635	0.8245	0.7772	6	6	-20	-20	18.242	38
888889	5.01E+10	NY	0	534.492	80.8824	114.748	0.7956	0.8448	0.8016	0.7501	0.6903	6	5.5	-20	-20	18.5786	47
888901	5.01E+10	NY	0	615.299	100	117.1093	1.0845	0.9033	0.874	0.8374	0.7928	6	6	-20	-20	18.0153	33
888921	5.01E+10	NY	0	434.872	92.9547	115.5327	1.2519	0.8394	0.7952	0.7425	0.6817	6	5	-20	-20	18.0075	34
889192	5.01E+10	NY	0	550.925	100	116.385	4.3452	0.8999	0.8697	0.8322	0.7865	6	6	-20	-20	17.976	32
888908	5.01E+10	NY	0	610.099	99.8967	113.2377	0.8712	0.8969	0.8659	0.8275	0.7808	6	6	-20	-20	18.0908	36
889087	5.01E+10	NY	5.2402	611.905	90.3306	117.9553	1.4427	0.8752	0.8389	0.7945	0.7417	6	6	-20	-20	18.5204	48
888871	2.02E+10	NY	0	294.169	89.5288	121.1523	2.2059	0.7919	0.7387	0.6774	0.6093	6	3	-20	-20	20.9686	96
889156	2.03E+10	NY	5.2356	131.428	34.7794	115.9633	26.1729	0.768	0.7108	0.6461	0.5755	6	2	-20	-20	21.1035	96
889010	5.01E+10	NY	0	581.411	97.5954	114.1077	1.0854	0.899	0.8686	0.8308	0.7848	6	6	-20	-20	17.8481	29
889309	1.1E+10	CT	2.0867	150.733	86.9984	111.3833	6.6114	0.7412	0.6802	0.6124	0.5399	6	1	-20	-9	19.8278	73
889541	2.02E+10	NY	0	284.929	82.8913	121.4903	4.0122	0.7193	0.6555	0.5856	0.5121	6	0.5	-20	-4	20.7653	90
889110	4.12E+10	PA	42.1922	416.903	49.2993	111.8795	1.7982	0.738	0.6766	0.6084	0.5357	6	1	-20	-8.5	17.7399	26
888929	2.03E+10	NY	4.273	133.331	61.4317	114.5247	29.2797	0.7947	0.742	0.6811	0.6133	6	3	-20	-20	20.2923	82
889144	2.03E+10	NY	0	87.4317	83.3333	112.1627	10.8072	0.7344	0.6725	0.604	0.5311	6	1	-20	-17	20.3482	82
889036	2.04E+10	NY	0	355.551	98.1395	101.2323	0.9675	0.7967	0.7443	0.6837	0.6162	6	3	-20	-20	18.8796	53
889186	2.04E+10	NY	1.3523	326.601	87.0463	110.4873	22.9221	0.7836	0.729	0.6664	0.5974	6	2.5	-20	-19.5	19.5976	68
889400	5.01E+10	NY	50.0615	481.478	26.4453	118.4237	6.2892	0.7575	0.6988	0.6328	0.5613	6	1.5	-20	-17	18.5333	43
888984	2.03E+10	NY	0	162.918	13.9186	120.4947	0.8406	0.7921	0.7389	0.6775	0.6095	6	3	-20	-20	21.6107	103
889399	5.01E+10	NY	35.3329	509.845	47.528	117.8877	1.3653	0.8536	0.8124	0.7628	0.7049	6	6	-20	-20	17.5762	24
889206	5.01E+10	NY	0.4053	595.281	87.8981	117.396	4.6629	0.8843	0.8502	0.8083	0.7579	6	6	-20	-20	17.2377	16
889011	5.01E+10	NY	0	516.63	85	113.3557	2.4624	0.8652	0.8266	0.7798	0.7245	6	6	-20	-20	18.1181	34
888932	5.01E+10	NY	0	497.349	99.8889	116.0617	0.81	0.9004	0.8704	0.833	0.7874	6	6	-20	-20	17.8717	29
889023	5.01E+10	NY	0	615.303	96.6694	115.3843	1.0809	0.9051	0.8763	0.8403	0.7963	6	6	-20	-20	17.3077	20
889473	5.01E+10	NY	0	551.072	95.5069	114.4613	7.3773	0.8877	0.8545	0.8135	0.7641	6	6	-20	-20	18.1292	36
889395	2.04E+10	NY	1.4114	311.854	91.3242	99.3878	2.1681	0.7749	0.7188	0.655	0.5851	6	2.5	-20	-17.5	19.0786	57
888946	5.01E+10	NY	0	483.574	97.5089	115.961	0.7587	0.894	0.8624	0.8231	0.7756	6	6	-20	-20	17.9096	32
889295	2.04E+10	NY	0	351.151	100	112.1253	2.0691	0.7638	0.706	0.6408	0.5699	6	2	-20	-14.5	19.0256	54
889401	5.01E+10	NY	0	636.252	97.4231	116.1593	3.9816	0.9001	0.87	0.8325	0.7868	6	6	-20	-20	17.5765	25
889086	5.01E+10	NY	0	607.383	97.9578	117.8873	1.3221	0.8866	0.8531	0.8118	0.7621	6	6	-20	-20	18.4372	47
889227	5.01E+10	NY	0	642.809	94.2336	115.8647	1.8261	0.8786	0.8431	0.7996	0.7477	6	6	-20	-20	18.7345	44
888997	5.01E+10	PA	5.1834	506.769	89.2345	110.5473	1.1286	0.7755	0.7195	0.6558	0.5859	6	2.5	-20	-17.5	17.9836	32
889019	2.02E+10	NY	0	205.859	93.9219	121.003	1.4067	0.7345	0.6726	0.6041	0.5312	6	1	-20	-7.5	20.2006	82
889056	5.01E+10	NY	0	582.362	100	117.6983	0.9756	0.9025	0.8731	0.8363	0.7914	6	6	-20	-20	18.2952	41
889112	5.01E+10	NY	0	571.308	100	117.866	17.5401	0.9092	0.8814	0.8466	0.8039	6	6	-20	-20	17.2495	18

Catchments

1. Spatial Aggregation

2. Filtering

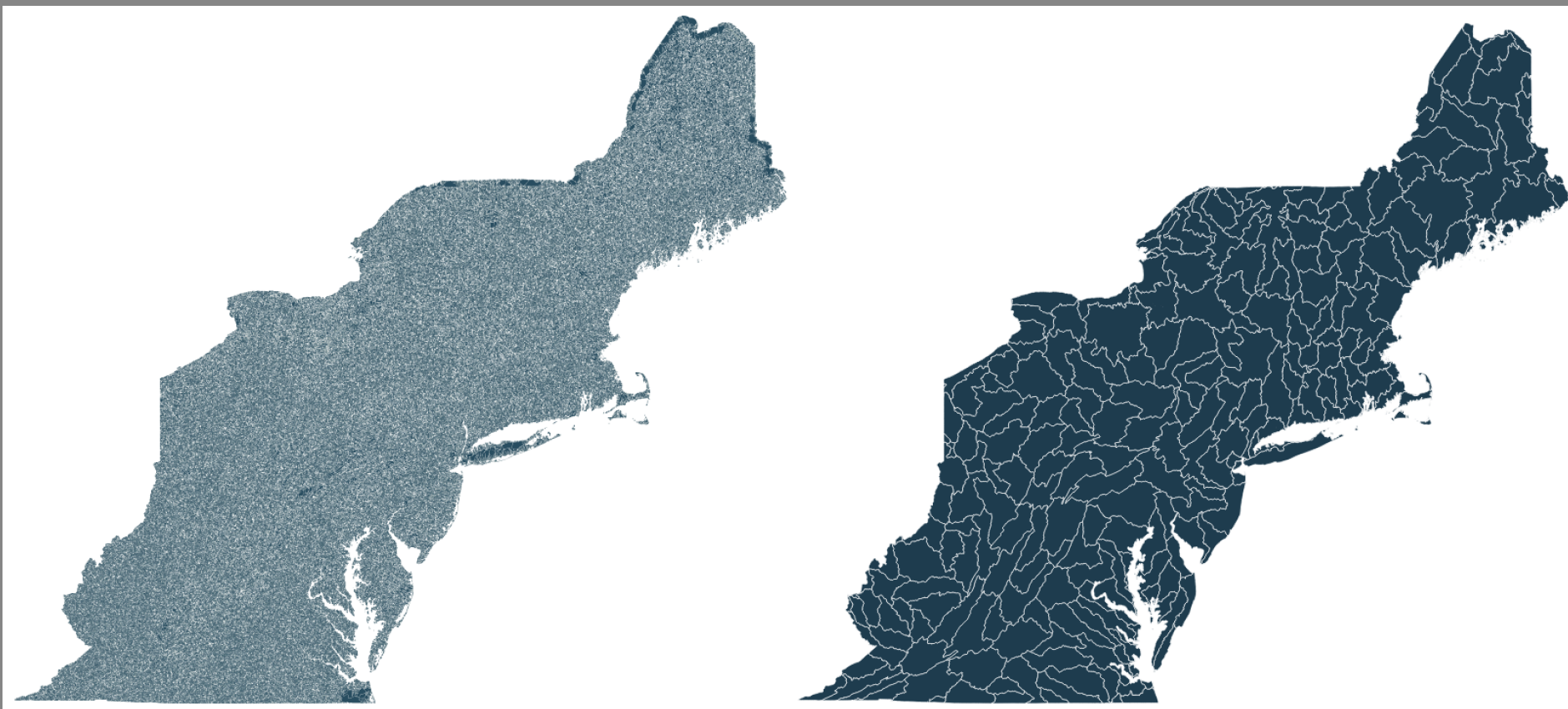
Aggregation

Area-weighted mean

featureid	huc12	itups	agriculture	elevation	forest	summer_grc AreaSpKM	occ_current	plus2	plus4	plus6	max_temp	min_forest	min_forest	meanJulyTer	meanDays	22
888931	5.010-10 NY	0	466.729	82.8861	115.6613	3.6144	0.7737	0.7174	0.6534	0.5834	6	2.5	-20	-17	18.1043	37
888945	5.010-10 NY	9.2715	445.855	70.8609	114.7903	32.2909	0.8426	0.799	0.747	0.6868	6	5.5	-20	-17	17.5763	23
889090	2.040-10 NY	0	325.753	85.0768	107.727	3.3777	0.7656	0.7081	0.643	0.5722	6	2	-20	-15	20.0018	79
889790	2.020-10 NY	0	291.614	85.5096	114.448	2.1618	0.7838	0.7051	0.6408	0.5699	6	2	-20	-14.5	20.1427	80
888808	2.030-10 NY	9.1759	162.33	75.8709	122.2577	1.0993	0.8821	0.8475	0.805	0.7541	6	6	-20	-20	20.2618	78
888844	5.010-10 NY	37.6165	499.801	62.3487	117.3206	7.1546	0.6143	0.7674	0.7102	0.6454	6	4	-20	-20	17.4747	21
888985	2.030-10 NY	0	179.114	12.9645	119.8723	2.1322	0.7646	0.707	0.6418	0.5709	6	2	-20	-20	21.6208	102
889095	5.010-10 NY	0.3025	640.247	141.613	113.8223	1.1224	0.8099	0.8095	0.8184	0.7999	6	6	-20	-20	17.9978	32
888823	2.030-10 NY	19.2308	127.966	66.2722	113.0307	45.2803	0.7207	0.6638	0.5946	0.5213	6	0.5	-20	-13	20.1197	79
888854	5.010-10 NY	5.8775	462.339	89.9007	115.4297	1.0872	0.8404	0.8073	0.7568	0.688	6	5.5	-20	-20	18.1595	62
889439	5.010-10 NY	51.6209	690.881	42.2885	117.146	4.4288	0.7902	0.6905	0.6296	0.5517	6	1.5	-20	-14.5	18.6337	60
888945	5.010-10 NY	54.321	503.209	40.0353	118.5613	1.0206	0.8664	0.8158	0.7669	0.7096	6	6	-20	-20	17.9041	34
888849	5.010-10 NY	17.3488	542.913	78.8949	117.4387	0.9396	0.8722	0.8302	0.7901	0.7365	6	6	-20	-20	17.4261	22
888790	5.010-10 NY	0	577.236	95.229	115.4097	0.9432	0.8898	0.857	0.8106	0.7678	6	6	-20	-20	17.9969	34
888842	2.020-10 NY	0	342.607	91.3458	119.9687	1.2027	0.7666	0.7092	0.6443	0.5736	6	2	-20	-15.5	19.3338	61
889121	5.010-10 NY	2.9592	549.915	87.963	115.074	3.7998	0.872	0.8349	0.7898	0.7362	6	6	-20	-20	18.1251	36
889052	2.040-10 NY	0	345.859	88.4733	105.2776	38.463	0.8061	0.7554	0.7063	0.63	6	3.5	-20	-20	18.8796	45
889003	5.010-10 NY	0	571.06	97.9532	116.5813	10.6596	0.8995	0.8693	0.8316	0.7858	6	6	-20	-20	17.548	24
888994	2.020-10 NY	1.3568	236.058	87.8562	112.798	1.2056	0.736	0.7434	0.6817	0.6121	6	3	-20	-20	20.4609	85
889057	2.020-10 NY	2.8546	122.902	86.642	115.7133	4.1301	0.7804	0.6792	0.6113	0.5388	6	1	-20	-9	20.4474	82
888821	2.030-10 NY	5.1251	103.341	85.5781	111.5423	0.7351	0.7993	0.7356	0.6739	0.6055	6	3	-20	-20	20.2886	82
888801	5.010-10 NY	0	606.29	100	117.1913	3.7515	0.5148	0.8886	0.8556	0.8148	6	6	-20	-20	17.1566	16
889051	2.040-10 NY	4.6846	368.172	19.0712	103.5083	4.3345	0.7993	0.7356	0.6739	0.6055	6	3	-20	-20	18.6257	44
889187	2.040-10 NY	4.6425	371.61	96.3038	112.4123	2.4408	0.8279	0.7813	0.7363	0.6834	6	4.5	-20	-20	15.8465	68
889436	2.030-10 NY	4.7122	135.707	49.4184	120.6603	9.1187	0.814	0.7647	0.7071	0.6419	6	4	-20	-20	21.8496	104
888864	5.010-10 NY	0	357.398	90.161	116.8403	8.2557	0.8949	0.8635	0.8345	0.7772	6	6	-20	-20	18.342	38
888889	5.010-10 NY	0	534.492	80.8824	114.748	0.7956	0.8848	0.8016	0.7501	0.6923	6	5.5	-20	-20	18.5786	47
888921	5.010-10 NY	0	613.299	100	117.1093	1.0845	0.8033	0.8174	0.8174	0.7928	6	6	-20	-20	18.2153	33
888921	5.010-10 NY	0	434.872	92.9547	115.1527	1.2513	0.8984	0.7962	0.7425	0.6817	6	6	-20	-20	18.0075	34
889130	5.010-10 NY	0	550.925	100	116.385	4.3432	0.8999	0.8697	0.8322	0.7865	6	6	-20	-20	17.976	32
889093	5.010-10 NY	0	610.099	99.997	113.2377	3.8712	0.8969	0.8609	0.8275	0.7808	6	6	-20	-20	18.0908	36
889087	5.010-10 NY	5.3402	611.905	80.3306	117.9553	1.4427	0.8732	0.8389	0.7945	0.7417	6	6	-20	-20	18.5204	48
888871	2.020-10 NY	0	294.108	85.5288	121.1531	2.2099	0.7819	0.7187	0.6774	0.6093	6	3	-20	-20	20.0486	96
889156	2.030-10 NY	5.2356	131.428	84.7794	115.9638	26.1729	0.768	0.7108	0.6461	0.5795	6	2	-20	-20	21.1035	96
889010	5.010-10 NY	0	581.611	97.9564	115.0777	1.2084	0.899	0.8686	0.8308	0.7848	6	6	-20	-20	17.8481	29
889309	1.10-10 CT	2.0687	150.713	86.9984	111.3883	6.6114	0.7412	0.6802	0.6124	0.5399	6	1	-20	-9	18.8278	73
889041	2.020-10 NY	0	284.929	82.8953	121.0903	4.0222	0.7139	0.6559	0.5956	0.5322	6	0.5	-20	-4	20.7693	90
889110	4.120-10 PA	42.1802	416.903	49.2993	111.8795	1.7982	0.738	0.6766	0.6084	0.5357	6	1	-20	-4.5	17.7399	29
888929	2.030-10 NY	4.273	133.331	61.6317	114.5247	29.2797	0.7947	0.742	0.6811	0.6139	6	3	-20	-20	20.2933	83
889445	2.030-10 NY	0	87.4817	83.3333	112.1627	10.8072	0.7844	0.6725	0.604	0.5311	6	1	-20	-17	20.3482	82
889036	2.040-10 NY	0	355.551	86.1395	101.2323	1.9675	0.7967	0.7443	0.6837	0.6162	6	3	-20	-20	18.8796	52
889186	2.040-10 NY	1.3923	336.601	87.0453	110.8873	23.3221	0.7856	0.7229	0.6664	0.5974	6	2.5	-20	-15	15.9376	68
889400	5.010-10 NY	50.0015	481.478	26.4453	118.4227	6.2892	0.7975	0.6988	0.6328	0.5613	6	1.5	-20	-17	18.5333	43
888964	2.030-10 NY	0	162.818	129.816	120.947	3.8406	0.7821	0.7389	0.6775	0.6095	6	3	-20	-20	21.6167	103
889399	5.010-10 NY	35.3329	509.845	47.528	117.8677	1.3653	0.8536	0.8124	0.7628	0.7049	6	6	-20	-20	17.5762	22
889205	5.010-10 NY	4.8253	595.261	87.8981	117.396	4.6629	0.8843	0.8502	0.8083	0.7579	6	6	-20	-20	17.2377	16
889011	5.010-10 NY	0	516.63	85	113.3557	2.4624	0.8652	0.8266	0.7798	0.7245	6	6	-20	-20	18.1181	34
888932	5.010-10 NY	0	497.345	99.8889	116.0217	0.81	0.9004	0.8704	0.833	0.7874	6	6	-20	-20	17.8717	29
889023	5.010-10 NY	0	613.303	86.6604	115.3843	1.0809	0.9051	0.8763	0.8403	0.7961	6	6	-20	-20	17.9077	20
889475	5.010-10 NY	0	551.075	95.5069	114.4613	7.3773	0.8877	0.8545	0.8135	0.7641	6	6	-20	-20	18.1292	36
889395	2.040-10 NY	1.4114	311.854	91.3242	99.3878	2.1681	0.7768	0.7188	0.655	0.5851	6	2.5	-20	-17.5	16.9786	57
888946	5.010-10 NY	0	483.574	97.5089	115.961	0.7587	0.884	0.8624	0.8321	0.7956	6	6	-20	-20	17.9096	32
889295	2.040-10 NY	0	351.151	100	112.1553	2.0051	0.8338	0.796	0.7408	0.6899	6	2	-20	-14.5	19.0256	54
889401	5.010-10 NY	0	630.232	97.4231	116.1593	3.9816	0.9001	0.87	0.8325	0.7868	6	6	-20	-20	17.5765	25
889086	5.010-10 NY	0	607.349	97.9778	117.8873	1.3221	0.8866	0.8431	0.8118	0.7612	6	6	-20	-20	18.4712	49
889227	5.010-10 NY	0	642.809	94.2336	115.8647	1.8261	0.8786	0.8431	0.7996	0.7477	6	6	-20	-20	18.7345	44
888991	5.010-10 NY	5.1881	506.769	89.2185	110.1473	1.128	0.7755	0.7195	0.6608	0.5935	6	2.5	-20	-17.5	17.8833	32
889019	2.020-10 NY	0	203.459	89.3219	121.003	1.4201	0.7845	0.6726	0.6041	0.5312	6	1	-20	-7.5	20.2006	80
889056	5.010-10 NY	0	582.363	100	117.0983	3.9756	0.9055	0.8731	0.8363	0.7914	6	6	-20	-20	18.2952	41
889112	5.010-10 NY	0	571.308	100	117.886	27.5401	0.7992	0.8814	0.8466	0.8039	6	6	-20	-20	17.4949	18

huc12	stups	agriculture	elevation	forest	summer_grc	AreaSpKM	occ	current	plus2	plus4	plus6	max_temp	min_forest	min_forest	meanJulyTer	meanDays	22
5.010+10 NY	8.5879	412.923	21.8941	110.767	255.046	2.00E-04	1.00E-04	1.00E-04	1.00E-04	0.5834	6	2.5	-20	-17	18.1043	37	2
5.010+10 NY	9.2715	445.855	70.8609	114.7903	10.2969	0.8426	0.799	0.747	0.6868	6	5.5	-20	-17	17.5763	23	1	

Aggregation



Catchments



HUC8

Filtering Rows

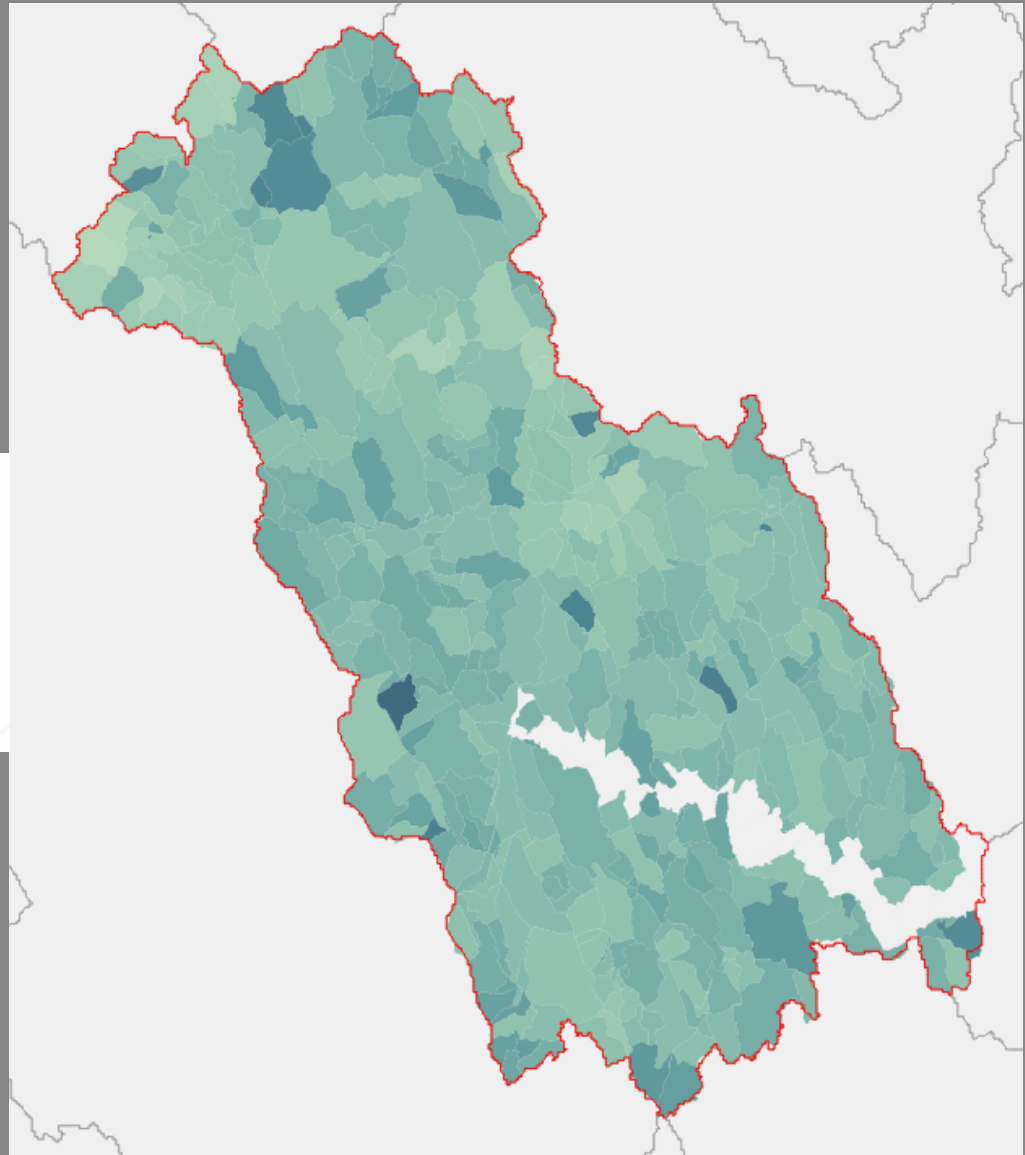
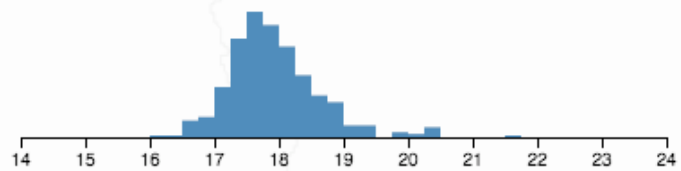
featureid	huc12	stusps	agriculture	elevation	forest	summer_prc AreaSqKM	occ_current	plus2	plus4	plus6	max temp	temp_min	temp_min	forest_min	meanDAYS	1	
888931	5.01E+10	NY	0	466.729	82.8861	115.6613	3.6144	0.7737	0.7174	0.6534	0.5834	6	2.5	-20	-17	18.1043	37
888943	5.01E+10	NY	9.2715	445.855	70.8609	114.7903	10.2963	0.8426	0.799	0.747	0.6869	6	5.5	-20	-17	17.5763	23
888906	2.04E+10	NY	0	325.753	85.0768	107.727	3.3777	0.7656	0.7081	0.643	0.5722	6	2	-20	-15	20.0018	79
888790	2.02E+10	NY	0	281.614	88.5096	114.449	2.1618	0.7638	0.7061	0.6408	0.5699	6	2	-20	-14.5	20.2427	80
888808	2.03E+10	NY	9.1759	162.33	75.8709	122.2577	1.0593	0.8821	0.8475	0.805	0.7541	6	6	-20	-20	20.0618	78
888848	5.01E+10	NY	27.6165	499.851	65.2487	117.209	7.1046	0.8163	0.7674	0.7102	0.6454	6	4	-20	-20	17.4747	21
888985	2.03E+10	NY	0	179.114	12.9645	119.8723	2.1312	0.7646	0.707	0.6418	0.5709	6	2	-20	-20	21.6308	102
888906	5.01E+10	NY	0.1055	649.247	84.1413	115.8223	1.1214	0.8909	0.8585	0.8184	0.7699	6	6	-20	-20	17.9978	32
888823	2.03E+10	NY	19.2308	127.966	66.2722	113.0357	45.2853	0.7267	0.6638	0.5946	0.5213	6	0.5	-20	-13	20.1197	79
888858	5.01E+10	NY	5.8775	462.339	89.9007	115.4297	1.0872	0.8494	0.8073	0.7568	0.698	6	5.5	-20	-20	19.1595	62
889439	5.01E+10	NY	52.209	480.881	40.2885	117.546	4.4398	0.7502	0.6905	0.6236	0.5517	6	1.5	-20	-14.5	19.6337	60
888945	5.01E+10	NY	54.321	503.209	40.0353	118.5613	1.0206	0.8564	0.8158	0.7669	0.7096	6	6	-20	-20	17.9041	34
888849	5.01E+10	NY	17.9348	542.913	78.8949	117.4387	0.9936	0.8722	0.8352	0.7901	0.7365	6	6	-20	-20	17.4261	22
888796	5.01E+10	NY	0	577.236	95.229	115.4997	0.9432	0.8998	0.857	0.8166	0.7678	6	6	-20	-20	17.9969	34
888862	2.02E+10	NY	0	342.607	91.9458	119.9687	1.2627	0.7666	0.7092	0.6443	0.5736	6	2	-20	-15.5	10.3338	61
889121	5.01E+10	NY	2.9762	540.915	87.963	115.074	3.7998	0.872	0.8349	0.7898	0.7362	6	6	-20	-20	18.1151	36
889052	2.04E+10	NY	0	345.859	98.4735	105.0776	33.453	0.8061	0.7554	0.6963	0.63	6	3.5	-20	-20	18.8796	45
889003	5.01E+10	NY	0	571.06	97.9532	116.5813	10.6596	0.8995	0.8693	0.8316	0.7858	6	6	-20	-20	17.548	24
888994	2.02E+10	NY	1.3568	236.058	87.8562	112.798	1.3266	0.796	0.7434	0.6827	0.6151	6	3	-20	-20	20.4669	85
889597	2.03E+10	NY	2.8546	122.952	86.642	115.913	4.3001	0.7404	0.6792	0.6113	0.5388	6	1	-20	-9	20.4474	82
888921	2.03E+10	NY	5.1251	109.341	85.796	111.3423	0.9551	0.7833	0.7356	0.6739	0.6055	6	3	-20	-20	20.2886	82
888804	5.01E+10	NY	0	606.29	117.1513	0.7515	0.9148	0.8886	0.8556	0.8148	0.763	6	6	-20	-20	17.1456	16
889051	2.04E+10	NY	4.6546	368.172	93.0712	103.5083	4.2345	0.7893	0.7356	0.6739	0.6055	6	3	-20	-20	18.6257	44
889187	2.04E+10	NY	0.4425	371.51	98.3038	112.4123	2.4408	0.8279	0.7813	0.7363	0.6834	6	4.5	-20	-20	19.6845	68
889436	2.03E+10	NY	4.7122	135.707	49.4184	120.6653	9.1197	0.814	0.7647	0.7071	0.6419	6	4	-20	-20	21.8496	104
888888	5.01E+10	NY	0	557.398	99.1611	116.8403	8.2557	0.8949	0.8635	0.8245	0.7772	6	6	-20	-20	18.342	38
888889	5.01E+10	NY	0	534.492	80.8824	114.748	0.7956	0.8448	0.8016	0.7501	0.6903	6	5.5	-20	-20	18.5786	47
888901	5.01E+10	NY	0	615.299	100	117.1093	1.0845	0.9033	0.874	0.8374	0.7928	6	6	-20	-20	18.0153	33
888921	5.01E+10	NY	0	434.872	92.9547	115.5327	1.2519	0.8394	0.7952	0.7425	0.6817	6	5	-20	-20	18.0075	34
888871	2.02E+10	NY	0	294.169	89.5288	121.1523	2.2059	0.7919	0.7387	0.6774	0.6093	6	3	-20	-20	20.9686	96
889166	2.03E+10	NY	5.2356	131.428	34.7794	115.9633	26.1729	0.768	0.7108	0.6661	0.5755	6	2	-20	-20	21.1035	96
889087	5.01E+10	NY	0	581.411	97.9594	114.1077	1.0854	0.899	0.8686	0.8308	0.7848	6	6	-20	-20	17.8481	29
889309	1.1E+10	CT	2.0671	150.733	86.9984	111.3833	6.6114	0.7412	0.6823	0.6214	0.5399	6	1	-20	-9	19.8278	73
889541	2.02E+10	NY	0	284.929	82.8913	121.4903	4.0122	0.7193	0.6555	0.5856	0.5121	6	0.5	-20	-4	20.7653	90
889110	4.12E+10	PA	42.1922	416.903	49.2993	111.8795	1.7982	0.738	0.6766	0.6084	0.5357	6	1	-20	-8.5	17.7399	26
889029	2.03E+10	NY	4.273	130.331	61.4937	114.5497	29.7797	0.7947	0.7462	0.6911	0.6133	6	3	-20	-20	20.2923	82
889144	2.03E+10	NY	0	87.8317	83.3333	112.1627	10.8072	0.7344	0.6725	0.604	0.5311	6	1	-20	-17	20.3482	82
889036	2.04E+10	NY	0	355.551	98.1395	101.2323	0.9675	0.7967	0.7443	0.6837	0.6162	6	3	-20	-20	18.8796	53
889186	2.04E+10	NY	1.3523	326.601	87.0463	110.4873	22.5221	0.7836	0.729	0.6664	0.5974	6	2.5	-20	-19.5	19.5975	68
889400	5.01E+10	NY	50.9615	481.478	26.1453	118.4237	6.3893	0.7575	0.6988	0.6338	0.5613	6	1.5	-20	-17	18.5333	43
888946	2.03E+10	NY	0	162.918	13.9186	120.4947	0.8406	0.7921	0.7389	0.6775	0.6095	6	3	-20	-20	21.6107	103
889399	5.01E+10	NY	35.3239	509.885	47.528	117.8877	1.8653	0.8536	0.8124	0.7628	0.7049	6	6	-20	-20	17.5762	24
889206	5.01E+10	NY	0.4053	595.281	87.0981	117.396	4.6029	0.8843	0.8521	0.8083	0.7579	6	6	-20	-20	17.2377	16
889011	5.01E+10	NY	0	516.613	85	113.3557	2.4624	0.8652	0.8266	0.7798	0.7245	6	6	-20	-20	18.1181	34
889032	5.01E+10	NY	0	497.349	99.8889	116.0617	0.81	0.9004	0.8704	0.833	0.7874	6	6	-20	-20	17.8717	29
889023	5.01E+10	NY	0	615.303	96.6094	115.3843	1.0809	0.9051	0.8703	0.8403	0.7963	6	6	-20	-20	17.3077	80
889473	5.01E+10	NY	0	551.072	95.5069	114.4613	7.3773	0.8877	0.8545	0.8135	0.7641	6	6	-20	-20	18.1292	36
889395	2.04E+10	NY	1.4114	311.854	91.3242	99.3878	2.1681	0.7749	0.7188	0.655	0.5851	6	2.5	-20	-17.5	19.0786	57
888946	5.01E+10	NY	0	483.574	97.089	115.961	0.7687	0.894	0.8624	0.8231	0.7756	6	6	-20	-20	17.9096	32
889295	2.04E+10	NY	0	351.151	100	112.1253	2.0691	0.7638	0.706	0.6408	0.5699	6	2	-20	-14.5	10.0256	54
889401	5.01E+10	NY	0	636.252	97.4231	116.1593	3.9816	0.9001	0.87	0.8325	0.7868	6	6	-20	-20	17.5765	25
889086	5.01E+10	NY	0	607.383	117.8873	1.3221	0.8668	0.8331	0.8118	0.7621	0.7182	6	6	-20	-20	18.4372	47
889227	5.01E+10	NY	0	642.809	94.2336	115.8647	1.8261	0.8786	0.8431	0.7996	0.7477	6	6	-20	-20	18.7345	44
888997	5.01E+10	PA	5.1834	506.769	89.2345	110.5473	1.1286	0.7755	0.7195	0.6558	0.5859	6	2.5	-20	-17.5	17.9836	32
889019	2.02E+10	NY	0	332.819	83.9219	121.009	0.9205	0.7905	0.7405	0.6905	0.6405	6	6	-20	-7.5	20.2006	80
889056	5.01E+10	NY	0	582.362	100	117.6983	0.9756	0.9025	0.8731	0.8363	0.7914	6	6	-20	-20	18.2952	41
889112	5.01E+10	NY	0	571.308	100	117.866	17.5401	0.9092	0.8814	0.8466	0.8039	6	6	-20	-20	17.2495	18

featureid	huc12	stusps	agriculture	elevation	forest	summer_prc AreaSqKM	occ_current	plus2	plus4	plus6	max_temp	temp_min	temp_min	forest_min	meanDAYS	1	
889060	2.04E+10	NY	0	325.753	85.0768	107.727	3.3777	0.7656	0.7081	0.643	0.5722	6	2	-20	-15	20.0018	79
888790	2.02E+10	NY	0	281.614	88.5096	114.449	2.1618	0.7638	0.7061	0.6408	0.5699	6	2	-20	-14.5	20.2427	80
888808	2.03E+10	NY	9.1759	162.33	75.8709	122.2577	1.0593	0.8821	0.8475	0.805	0.7541	6	6	-20	-20	20.0618	78
888823	2.03E+10	NY	19.2308	127.966	66.2722	113.0357	45.2853	0.7267	0.6638	0.5946	0.5213	6	0.5	-20	-13	20.1197	79
888796	5.01E+10	NY	0	577.236	95.229	115.4997	0.9432	0.8898	0.857	0.8166	0.7678	6	6	-20	-20	17.9969	34
888848	2.02E+10	NY	0	342.607	91.9458	119.9687	1.2627	0.7666	0.7092	0.6443	0.5736	6	2	-20	-15.5	10.3338	61
888821	2.03E+10	NY	5.1251	103.341	85.5781	111.3423	0.7551	0.7893	0.7356	0.6739	0.6055	6	3	-20	-20	20.2886	82
888804	5.01E+10	NY	0	606.29	117.1513	0.7515	0.9148	0.8886	0.8556	0.8148	0.763	6	6	-20	-20	17.1456	16
889051	2.04E+10	NY	4.6546	368.172	93.0712	103.5083	4.2345	0.7893	0.7356	0.6739	0.6055	6	3	-20	-20	18.6257	44
889187	2.04E+10	NY	0.4425	371.51	98.3038	112.4123	2.4408	0.8279	0.7813	0.7363	0.6834	6	4.5	-20	-20	19.6845	68
888946	2.03E+10	NY	4.712	162.33	75.8707	122.2577	1.0593	0.8821	0.8475	0.805	0.7541	6	6	-20	-20	20.0618	78
888888	5.01E+10	NY	0	557.398	106.111	116.8403	8.2557	0.8499	0.8635	0.8245	0.7772	6	6	-20	-18.242	38	79
888889	5.01E+10	NY	0	534.492	80.8824	114.748	0.7956	0.8484	0.8016	0.7501	0.6903	6	5.5	-20	-20	18.5786	47
888890	5.01E+10	NY	0	512.299	100	117.159	0.7515	0.8614	0.8031	0.7456	0.6868	6	6	-20	-18.0373	38	79
889011	5.01E+10	NY	0	434.872	92.947	115.327	1.2519	0.8498	0.7952	0.7425	0.6817	6	5	-20	-18.0075	34	79
888871	2.02E+10	NY	0	294.169	89.5288	121.523	2.2059	0.7919	0.7387	0.6774	0.6093	6	3	-20	-20	18.6686	96
889156	2.03E+10	NY	5.2356	131.428	34.7794	115.9633	26.1729	0.768	0.7108	0.6464	0.5755	6	2	-20	-21.1035	36	79
889039	5.01E+10	NY	0	682.411	119.9584	124.477	0.2865	0.8997	0.8625	0.8208	0.778	6	6	-20	-20	19.6845	68
889039	5.01E+10	NY	35.3329	509.845	47.528	117.8877	1.3653	0.8536	0.8124	0.7628	0.7049	6	6	-20	-17.5762	24	79
889023	5.01E+10	NY	0	615.303	96.6694	115.3843	1.0809	0.9051	0.8763	0.8403	0.7963	6	6	-20	-17.3077	20	79
889473	5.01E+10	NY	0	551.072	95.5089	114.4613	1.7373	0.8877	0.8545	0.8135	0.7641	6	6	-20	-18.292	36	79
889474	5.01E+10	NY	1.411	551.072	95.5089	114.4613	1.7373	0.8877	0.8545	0.8135	0.7641	6	6	-20	-18.292	36	79
888846	5.01E+10	NY	0	483.574	97.5089	115.061	0.7587	0.8084	0.8624	0.8235	0.775	6	6	-20	-17.9096	32	79
889295	2.04E+10	NY	0	351.151	100	112.1253	0.2091	0.7638	0.706	0.6408	0.5699	6	2	-20	-14.5	19.0296	41
889296	2.04E+10	NY	0	351.151	100	112.1253	0.2091	0.7638	0.706	0.6408	0.5699	6	2	-20	-14.5	19.0296	41
889056	5.01E+10	NY	0	582.362	100	117.6983	0.9756	0.9025	0.8731	0.8363	0.7914	6	6	-20	-18.2952	21	79

Filtering

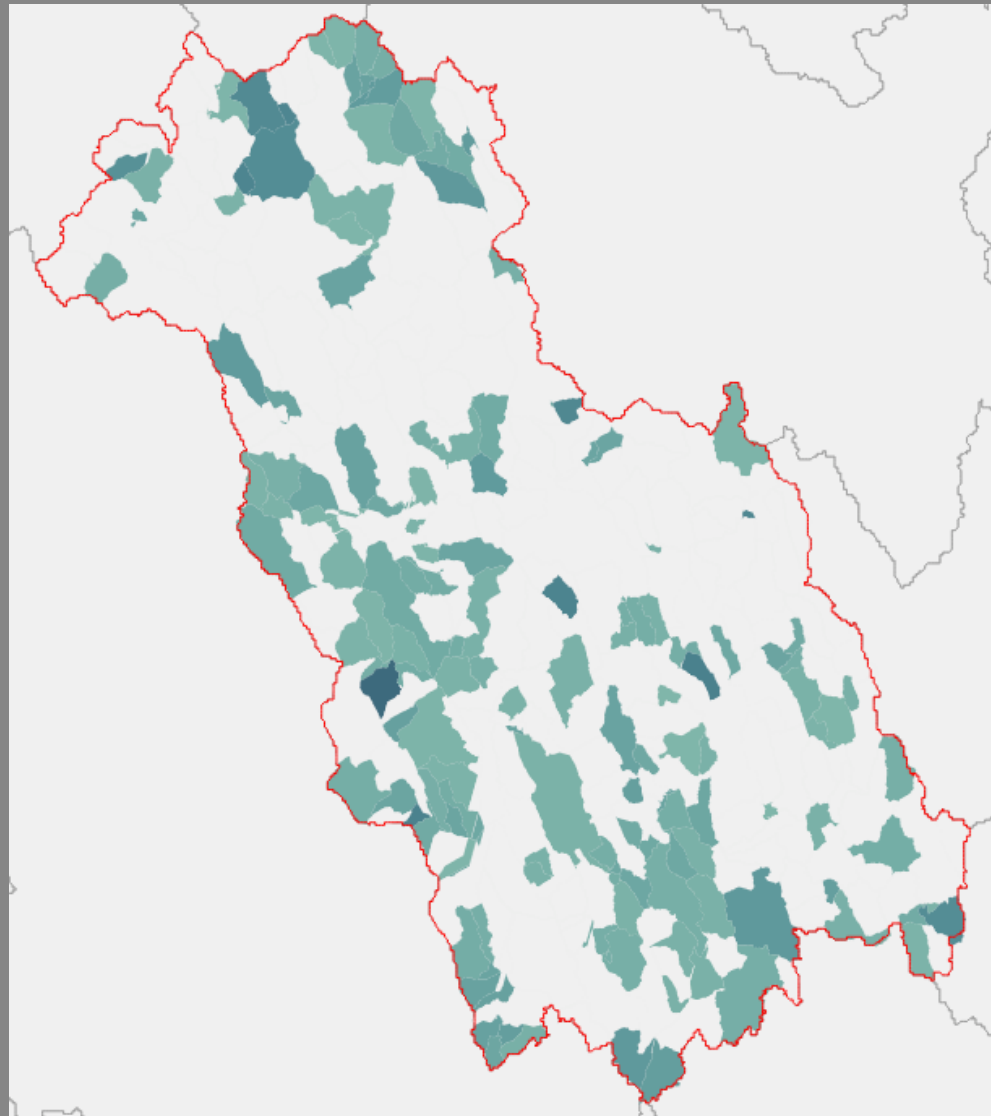
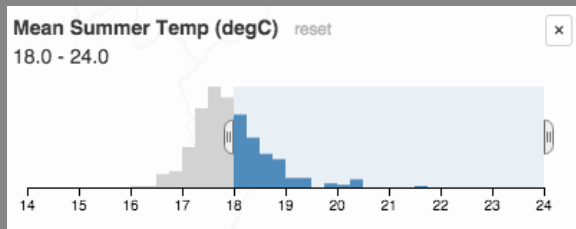
Mean Summer Temp (degC)

14.0 - 24.0



Filtering

Show Catchments Where:
Mean Summer Temp > 18 degC



Interactive Catchment Explorer (ICE)

Crown of the Continent
Ecosystem

<http://ice.ecosheds.org/cce>

ICE - CROWN OF THE CONTINENT ECOSYSTEM

ICE Home | SHEDS Home

About ICE About the Data Contact Us

SELECT SPECIES

Westslope Cutthroat Trout

SELECT VARIABLE

Overall Risk (RCP 4.5, 2035)



+

-

0

1

2

3

4

5

6

7

8

9

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11

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88

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98

99

100

HISTOGRAMS AND FILTERS

Select variable(s)...

Patches Selected: 497 of 497

30 km
20 mi

Leaflet | © 2018 Microsoft Corporation, Earthstar Geographics SIO

2 RCP,
2 future dates = x8
2 within-basin

2 species

Risk

Overall Risk

Climate Risk

Demographic Risk

Genetic Risk

Demographic/Genetic Risk

Habitat Risk

Hybridization Covariates

Hybridization Threat Index (HTI)

Maximum Rainbow Trout Admixture

Demographic Covariates

Average Abundance (2000-2017)

Average Abundance Based on Model Predictions

Invasive Species Distance Index

Isolation Status

Disjunct Population Status

Number of Connected Populations

Presence/Absence Covariates

Presence of Westslope Cutthroat Trout

Presence of Bull Trout

Presence of Lake Trout

Presence of Brown Trout

Presence of Brook Trout

Habitat Covariates

Patch Area (km²)

Stream Length (km)

Stream Length with Critical Spawning & Rearing Habitat (km)

Road Length per Unit Patch Area (km/km²)

Frac. Patch Area as Valley Bottom

Direct linking of data and model results

Communication and learning made easi(er) and fast(er)

Reveal patterns, see data in a new way

Learn how covariates influence model predictions

Consistent regional data and results

Explore, prioritize

Key capabilities

Identify how variables vary across patches

- Map

- Filter the map

Identify correlations among variables

- Strength

- Direction

Identify patches that meet multiple criteria

- Prioritization

Caveats

Work-in-progress

Results are model-based

Downloading not currently available

Preliminary data

Interactive Catchment Explorer (ICE)

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