

Supplementary Information

Table S1. Regression results of PIV pixels at 150 sites. The letters a and b denote slope and intercept of the band-specific linear regression.

NAIP Image ID	Landsat Image ID	Thres-hold	PIV pixels	a (NIR)	b (NIR)	r ² (NIR)	p (NIR)	a (R)	b (R)	r ² (R)	p (R)	a (G)	b (G)	r ² (G)	p (G)
m_4012327_ne_10_1_20090622	LT05_046032_20090622	0.02	10	0.001	0.056	0.621	0.007	0.001	-0.008	0.950	<0.001	0.001	-0.009	0.946	<0.001
m_3210843_se_12_1_20110507	LT05_034038_20110507	0.03	17	0.002	0.098	0.920	<0.001	0.001	0.021	0.907	<0.001	0.001	0.033	0.883	<0.001
m_4612058_sw_10_1_20090701	LT05_045028_20090701	0.01	5	0.001	0.045	0.901	0.014	0.001	0.004	0.924	0.009	0.001	<0.001	0.979	0.001
m_3908442_ne_16_1_20100604	LT05_020033_20100603	0.04	20	0.002	0.066	0.914	<0.001	0.001	-0.004	0.962	<0.001	0.001	-0.030	0.969	<0.001
m_4109343_sw_15_1_20110718	LT05_026031_20110718	1.19	561	0.002	0.077	0.912	<0.001	0.001	-0.032	0.714	<0.001	0.001	-0.017	0.749	<0.001
m_3710036_ne_14_1_20080722	LT05_030034_20080721	0.1	49	0.002	0.066	0.809	<0.001	0.001	-0.016	0.891	<0.001	0.001	-0.002	0.882	<0.001
m_4209642_se_14_1_20090701	LT05_029031_20090701	4.87	2248	0.002	0.008	0.502	<0.001	0.001	-0.002	0.795	<0.001	0.001	-0.025	0.734	<0.001
m_4610262_se_13_1_20090628	LT05_033028_20090627	0.02	9	0.001	0.131	0.368	0.083	0.001	-0.023	0.809	0.001	0.001	<0.001	0.750	0.003
m_4811038_se_12_1_20090723	LT05_039026_20090723	0.49	206	0.002	0.025	0.824	<0.001	0.001	-0.010	0.761	<0.001	0.001	0.001	0.727	<0.001
m_3310821_se_12_1_20110515	LT05_035037_20110514	0.2	106	0.002	0.046	0.704	<0.001	0.001	-0.009	0.769	<0.001	0.001	0.005	0.734	<0.001
m_4612058_sw_10_1_20110824	LT05_045028_20110824	0.01	5	0.001	0.083	0.978	0.001	0.001	0.004	0.942	0.006	0.001	-0.009	0.859	0.023
m_4109113_se_15_1_20100826	LT05_025031_20100825	0.05	24	0.002	0.058	0.968	<0.001	<0.001	-0.009	0.702	<0.001	<0.001	0.006	0.712	<0.001

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m_4611064_se_12_1_20090716	LT05_038028_20090716	0.13	47	0.002	0.042	0.437	<0.001	0.001	-0.004	0.895	<0.001	0.001	-0.008	0.921	<0.001
m_3912025_nw_10_1_20090704	LT05_043033_20090703	0.65	318	0.001	0.106	0.618	<0.001	0.001	0.008	0.927	<0.001	0.001	0.006	0.910	<0.001
m_2809815_nw_14_1_20100504	LT05_027040_20100503	0.02	11	0.002	0.061	0.981	<0.001	0.001	0.009	0.937	<0.001	<0.001	0.041	0.936	<0.001
m_3109260_sw_15_1_20100803	LT05_024038_20100802	1.62	788	0.001	0.095	0.465	<0.001	0.001	-0.045	0.785	<0.001	0.001	-0.046	0.667	<0.001
m_3909939_sw_14_1_20080705	LT05_030033_20080705	0.02	9	0.002	-0.008	0.568	0.019	0.001	-0.008	0.915	<0.001	0.001	0.006	0.832	0.001
m_4109915_se_14_1_20090708	LT05_030031_20090708	0.01	5	0.002	<0.001	0.990	<0.001	0.001	0.003	0.956	0.004	0.001	-0.009	0.979	0.001
m_3408130_ne_17_1_20110430	LT05_017036_20110430	0.09	40	0.002	-0.011	0.480	<0.001	0.001	-0.015	0.923	<0.001	0.001	-0.025	0.894	<0.001
m_4110153_ne_14_1_20100718	LT05_031031_20100718	0.97	457	0.002	-0.028	0.732	<0.001	0.001	0.034	0.805	<0.001	0.001	0.025	0.786	<0.001
m_3009603_sw_14_1_20100801	LT05_026039_20100731	5	2709	0.002	0.030	0.940	<0.001	0.001	-0.010	0.760	<0.001	0.001	0.012	0.609	<0.001
m_4209622_se_14_1_20110817	LT05_028030_20110817	0.01	5	0.003	0.052	0.990	<0.001	0.001	-0.095	0.940	0.006	0.001	-0.066	0.899	0.014
m_4711140_ne_12_1_20090723	LT05_039027_20090723	0.05	22	0.001	0.081	0.807	<0.001	0.001	-0.032	0.728	<0.001	0.001	-0.080	0.773	<0.001
m_4008960_nw_16_1_20100624	LT05_023032_20100624	0.4	194	0.002	-0.068	0.809	<0.001	0.001	-0.046	0.790	<0.001	0.001	-0.070	0.828	<0.001
m_4710708_se_13_1_20110716	LT05_037027_20110715	0.13	56	0.001	0.021	0.278	<0.001	0.001	-0.001	0.590	<0.001	0.001	0.017	0.618	<0.001
m_3109349_ne_15_1_20100825	LT05_025038_20100825	0.09	48	0.001	0.098	0.549	<0.001	<0.001	0.013	0.639	<0.001	<0.001	0.024	0.560	<0.001

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m_4410130_ne_14_1_20100726	LT05_032029_20100725	0.12	55	0.001	-0.017	0.983	<0.001	0.001	0.023	0.973	<0.001	<0.001	0.018	0.963	<0.001
m_3709833_nw_14_1_20100618	LT05_029034_20100618	0.03	13	0.002	-0.137	0.954	<0.001	0.001	-0.021	0.947	<0.001	0.001	-0.020	0.965	<0.001
m_4811013_nw_12_1_20090723	LT05_039026_20090723	5	2047	0.002	0.029	0.891	<0.001	0.001	-0.009	0.792	<0.001	0.001	-0.005	0.783	<0.001
m_3810702_se_13_1_20110920	LT05_035033_20110919	0.16	79	0.001	0.067	0.728	<0.001	0.001	0.006	0.790	<0.001	0.001	0.001	0.795	<0.001
m_3809601_sw_14_1_20080707	LT05_028033_20080707	0.04	18	0.002	0.113	0.929	<0.001	0.001	0.015	0.890	<0.001	0.001	0.006	0.914	<0.001
m_4710733_nw_13_1_20110716	LT05_037027_20110715	0.02	9	0.001	0.037	0.240	0.180	0.001	0.010	0.735	0.003	0.001	0.013	0.704	0.005
c_3708935_nw_16_1_20030621	LT05_023034_20030621	1.49	695	0.002	-0.035	0.587	<0.001	0.001	-0.012	0.665	<0.001	0.001	-0.005	0.574	<0.001
m_3408131_nw_17_1_20110430	LT05_017036_20110430	0.33	168	0.002	0.024	0.924	<0.001	0.001	-0.013	0.841	<0.001	<0.001	-0.002	0.835	<0.001
m_3108823_nw_16_1_20110816	LT05_021038_20110816	4.96	2530	0.001	0.083	0.056	<0.001	0.001	-0.033	0.761	<0.001	0.001	-0.063	0.617	<0.001
m_4409762_nw_14_1_20100806	LT05_029029_20100805	0.05	24	0.002	-0.018	0.897	<0.001	0.001	-0.001	0.837	<0.001	0.001	-0.008	0.828	<0.001
m_3808843_sw_16_1_20100625	LT05_023033_20100624	1.52	651	0.002	-0.091	0.929	<0.001	0.001	-0.050	0.725	<0.001	0.001	-0.069	0.728	<0.001
m_4109247_ne_15_1_20110719	LT05_026031_20110718	0.81	331	0.002	0.065	0.758	<0.001	0.001	-0.066	0.801	<0.001	0.001	-0.051	0.810	<0.001
m_3511009_sw_12_1_20070618	LT05_037035_20070618	0.02	11	0.002	0.080	0.932	<0.001	0.002	0.050	0.964	<0.001	0.002	<0.001	0.921	<0.001
m_3610261_sw_13_1_20100820	LT05_031035_20100819	4.96	2477	0.002	-0.089	0.686	<0.001	0.001	-0.047	0.833	<0.001	0.001	-0.037	0.805	<0.001

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m_3010448_se_13_1_20080930	LT05_031039_20080930	2.35	1278	0.002	-0.119	0.652	<0.001	0.002	-0.096	0.678	<0.001	0.002	-0.090	0.718	<0.001
m_4411830_ne_11_1_20090719	LT05_043029_20090719	0.04	19	0.002	-0.059	0.705	<0.001	0.001	-0.041	0.889	<0.001	0.001	-0.056	0.872	<0.001
m_4810351_ne_13_1_20090711	LT05_035026_20090711	0.03	12	0.002	-0.074	0.804	<0.001	0.001	-0.060	0.870	<0.001	0.001	-0.041	0.728	<0.001
m_3110822_ne_12_1_20110507	LT05_034038_20110507	0.03	17	0.001	0.141	0.872	<0.001	0.001	0.086	0.878	<0.001	0.001	0.062	0.880	<0.001
m_4311362_se_12_1_20090715	LT05_040030_20090714	0.06	28	0.001	0.060	0.653	<0.001	0.001	0.043	0.693	<0.001	<0.001	0.046	0.534	<0.001
m_4411531_ne_11_1_20110812	LT05_041029_20110812	0.02	10	0.002	0.015	0.709	0.002	0.001	-0.006	0.878	<0.001	0.001	-0.008	0.697	0.003
m_4311156_se_12_1_20090802	LT05_038030_20090801	0.41	185	0.001	-0.023	0.949	<0.001	0.001	-0.035	0.946	<0.001	0.001	-0.035	0.902	<0.001
m_3208219_sw_17_1_20100903	LT05_017037_20100902	0.62	316	0.001	0.066	0.653	<0.001	0.001	-0.022	0.812	<0.001	0.001	-0.018	0.738	<0.001
m_3311456_sw_11_1_20100703	LT05_038037_20100703	0.04	22	0.002	0.057	0.968	<0.001	0.001	0.063	0.968	<0.001	0.001	0.036	0.970	<0.001
m_4310521_sw_13_1_20090812	LT05_035030_20090812	3.95	1780	0.001	0.020	0.798	<0.001	0.001	0.030	0.816	<0.001	0.001	0.035	0.805	<0.001
m_4410540_nw_13_1_20090812	LT05_035029_20090812	0.04	18	0.001	0.088	0.855	<0.001	0.001	0.012	0.964	<0.001	0.001	0.011	0.932	<0.001
m_3907716_sw_18_1_20100703	LT05_015032_20100702	0.03	14	0.002	-0.001	0.995	<0.001	0.001	-0.050	0.959	<0.001	0.001	-0.046	0.960	<0.001
m_3310953_sw_12_1_20100815	LT05_035037_20100815	0.01	6	0.003	-0.178	0.383	0.190	0.001	-0.047	0.294	0.266	0.002	-0.179	0.604	0.069
m_4811516_nw_11_1_20110820	LT05_042026_20110819	0.49	209	0.001	-0.003	0.930	<0.001	<0.001	-0.008	0.525	<0.001	0.001	-0.022	0.643	<0.001

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m_4612140_ne_10_1_20090701	LT05_045028_20090701	4.23	1858	0.001	0.090	0.529	<0.001	0.001	0.004	0.847	<0.001	0.001	<0.001	0.814	<0.001
m_4612025_ne_10_1_20090701	LT05_045028_20090701	0.36	160	0.001	0.073	0.833	<0.001	0.001	0.011	0.863	<0.001	0.001	0.007	0.835	<0.001
m_4112010_se_10_1_20090624	LT05_044031_20090624	0.14	62	0.001	0.060	0.597	<0.001	0.001	0.009	0.774	<0.001	0.001	0.004	0.603	<0.001
m_4612032_se_10_1_20090701	LT05_045028_20090701	1.08	484	0.002	0.013	0.895	<0.001	0.001	-0.088	0.889	<0.001	0.001	-0.039	0.848	<0.001
m_4111412_sw_11_1_20100702	LT05_040031_20100701	0.01	5	0.004	-0.283	0.764	0.053	0.001	-0.058	0.993	<0.001	0.001	-0.057	0.937	0.007
m_3408430_nw_16_1_20100831	LT05_019036_20100831	0.67	327	0.001	0.038	0.684	<0.001	0.001	-0.065	0.888	<0.001	0.001	-0.065	0.857	<0.001
m_4107916_sw_17_1_20100530	LT05_017031_20100529	0.02	10	0.002	-0.006	0.874	<0.001	0.001	-0.053	0.638	0.006	0.001	-0.009	0.780	0.001
m_3110822_nw_12_1_20110507	LT05_034038_20110507	0.02	11	0.001	0.183	0.896	<0.001	0.001	0.130	0.839	<0.001	0.001	0.095	0.758	<0.001
m_3912043_nw_10_1_20090703	LT05_043033_20090703	0.01	4	0.002	0.076	0.798	0.107	0.001	-0.009	0.999	0.001	0.001	-0.020	0.989	0.005
m_4810440_sw_13_1_20090721	LT05_034026_20090720	0.03	13	0.001	0.072	0.711	<0.001	<0.001	0.042	0.564	0.003	<0.001	0.046	0.669	0.001
m_4112354_sw_10_1_20090622	LT05_046031_20090622	0.66	310	0.001	0.099	0.730	<0.001	0.001	0.001	0.738	<0.001	0.001	0.002	0.704	<0.001
m_4011003_se_12_1_20110901	LT05_037032_20110901	0.01	5	0.002	0.002	0.993	<0.001	0.001	0.013	0.851	0.026	0.001	0.012	0.921	0.010
m_4112309_se_10_1_20090622	LT05_046031_20090622	0.05	22	0.001	0.156	0.320	0.006	0.001	0.004	0.806	<0.001	<0.001	0.010	0.806	<0.001
m_4811745_nw_11_1_20110817	LT05_044026_20110817	0.23	91	<0.001	0.184	0.020	0.179	<0.001	0.001	0.738	<0.001	<0.001	0.005	0.440	<0.001

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m_4008710_sw_16_1_20100703	LT05_022032_20100703	0.02	10	0.002	-0.137	0.949	<0.001	0.001	-0.080	0.601	0.008	0.001	<0.001	0.803	<0.001
m_4512160_ne_10_1_20090701	LT05_045029_20090701	0.02	9	0.001	0.031	0.343	0.098	0.001	-0.099	0.956	<0.001	0.001	-0.103	0.916	<0.001
m_4307049_ne_19_1_20110717	LT05_012030_20110716	0.01	5	0.002	0.010	0.998	<0.001	0.001	-0.044	0.998	<0.001	0.001	-0.028	0.986	0.001
m_4506961_ne_19_1_20110911	LT05_011029_20110911	0.56	248	0.001	0.025	0.864	<0.001	<0.001	-0.002	0.740	<0.001	<0.001	-0.007	0.702	<0.001
m_3709903_ne_14_1_20080714	LT05_029034_20080714	0.02	9	0.001	0.101	0.401	0.067	0.001	0.050	0.708	0.004	<0.001	0.066	0.432	0.054
m_3808308_sw_17_1_20111005	LT05_019033_20111005	1.49	693	0.002	0.037	0.691	<0.001	0.001	-0.018	0.646	<0.001	0.001	-0.018	0.622	<0.001
m_3809743_ne_14_1_20080707	LT05_028033_20080707	0.07	35	0.002	-0.020	0.990	<0.001	0.001	0.006	0.986	<0.001	0.001	0.013	0.988	<0.001
m_4209334_ne_15_1_20110718	LT05_026031_20110718	0.05	24	0.002	0.036	0.993	<0.001	0.002	-0.178	0.988	<0.001	0.002	-0.191	0.978	<0.001
c_3510062_nw_14_1_20041023	LT05_029036_20041023	4.13	2115	0.001	0.047	0.809	<0.001	0.001	0.018	0.674	<0.001	0.001	0.022	0.610	<0.001
m_4010446_ne_13_1_20110703	LT05_033032_20110703	0.07	30	0.007	-0.005	0.384	<0.001	0.003	0.002	0.783	<0.001	0.003	-0.027	0.616	<0.001
m_4312054_se_10_1_20110801	LT05_044030_20110801	0.02	10	0.002	-0.115	0.895	<0.001	0.002	-0.162	0.898	<0.001	0.001	-0.057	0.862	<0.001
c_3410130_nw_14_1_20040827	LT05_030036_20040827	0.01	6	0.001	0.050	0.863	0.007	0.001	0.015	0.761	0.023	0.001	0.024	0.798	0.016
m_3511761_ne_11_1_20090620	LT05_041036_20090619	0.02	11	0.003	-0.080	0.922	<0.001	0.002	-0.106	0.897	<0.001	0.002	-0.073	0.908	<0.001
m_2909746_ne_14_1_20100503	LT05_027040_20100503	3.47	1693	0.001	0.109	0.721	<0.001	0.001	-0.001	0.710	<0.001	<0.001	0.017	0.598	<0.001
m_4511552_se_11_1_20090722	LT05_041029_20090721	0.24	109	0.001	0.061	0.638	<0.001	<0.001	-0.006	0.827	<0.001	<0.001	0.003	0.791	<0.001

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c_3010041_sw_14_2_20060811	LT05_029039_20060810	0.01	6	0.001	0.160	0.267	0.294	0.001	0.061	0.496	0.118	0.001	0.047	0.460	0.139
m_3709139_nw_15_1_20100701	LT05_024034_20100701	0.04	21	0.001	-0.024	0.944	<0.001	0.001	-0.033	0.970	<0.001	0.001	-0.057	0.968	<0.001
m_3810307_se_13_1_20090808	LT05_032033_20090807	0.04	20	0.002	-0.085	0.768	<0.001	0.001	-0.012	0.850	<0.001	0.001	-0.043	0.899	<0.001
m_3611304_ne_12_1_20100617	LT05_038034_20100617	0.09	42	0.003	-0.088	0.930	<0.001	0.002	-0.021	0.938	<0.001	0.002	-0.020	0.899	<0.001
m_4811953_sw_11_1_20110707	LT05_045026_20110707	0.04	18	0.001	0.119	0.912	<0.001	<0.001	0.056	0.883	<0.001	<0.001	0.050	0.914	<0.001
m_4109113_sw_15_1_20100826	LT05_025031_20100825	0.01	5	0.002	0.095	0.955	0.004	0.001	-0.052	0.969	0.002	0.001	-0.040	0.917	0.010
m_4611427_nw_11_1_20090722	LT05_041028_20090721	4.68	2026	0.002	-0.163	0.447	<0.001	<0.001	-0.005	0.749	<0.001	<0.001	-0.002	0.651	<0.001
m_3211053_nw_12_1_20100603	LT05_036038_20100603	0.01	6	0.003	-0.275	0.984	<0.001	0.002	-0.050	0.986	<0.001	0.002	-0.078	0.990	<0.001
m_3607812_sw_17_1_20080525	LT05_015035_20080525	0.06	31	0.002	0.040	0.853	<0.001	0.001	-0.085	0.785	<0.001	0.001	-0.061	0.733	<0.001
m_3607805_nw_17_1_20080525	LT05_015034_20080525	0.01	5	0.002	0.007	0.878	0.006	0.002	-0.143	0.989	<0.001	0.001	-0.113	0.989	<0.001
c_3010411_se_13_2_20060916	LT05_032039_20060916	0.02	10	0.001	-0.006	0.737	0.001	0.001	-0.027	0.799	<0.001	0.001	-0.032	0.614	0.007
m_4610730_nw_13_1_20090725	LT05_037027_20090725	0.04	18	0.002	0.034	0.985	<0.001	0.001	0.031	0.978	<0.001	0.001	0.037	0.960	<0.001
m_2709722_se_14_1_20100424	LT05_026041_20100426	0.01	5	<0.001	0.003	0.352	0.291	<0.001	0.003	0.394	0.257	<0.001	-0.001	0.591	0.129
m_2910343_se_13_1_20080923	LT05_030040_20080923	0.52	280	0.002	-0.200	0.690	<0.001	0.002	-0.040	0.832	<0.001	0.002	-0.057	0.854	<0.001

NAIP Image ID	Landsat Image ID	Thres-hold	PIV pixels	a (NIR)	b (NIR)	r ² (NIR)	p (NIR)	a (R)	b (R)	r ² (R)	p (R)	a (G)	b (G)	r ² (G)	p (G)
c_3609064_sw_15_1_20030622	LT05_023035_20030621	0.01	6	0.001	0.040	0.995	<0.001	0.001	0.003	0.981	<0.001	0.001	-0.007	0.924	0.002
m_3709101_ne_15_1_20090628	LT05_024034_20090628	0.24	119	0.001	0.029	0.754	<0.001	0.001	-0.031	0.801	<0.001	0.001	-0.017	0.743	<0.001
m_4810761_sw_13_1_20090725	LT05_037027_20090725	0.01	5	0.002	0.020	0.967	0.003	0.001	-0.085	0.909	0.012	0.002	-0.138	0.816	0.036
m_4310354_sw_13_1_20100716	LT05_033030_20100716	2.13	991	0.002	-0.036	0.640	<0.001	<0.001	0.044	0.529	<0.001	<0.001	0.032	0.579	<0.001
m_3710934_ne_12_1_20110623	LT05_036034_20110622	1.02	498	0.001	0.136	0.390	<0.001	0.002	-0.034	0.627	<0.001	0.001	-0.030	0.702	<0.001
m_3311217_ne_12_1_20100610	LT05_037037_20100610	0.05	26	0.005	-0.411	0.899	<0.001	0.003	-0.217	0.884	<0.001	0.003	-0.200	0.859	<0.001
m_3009742_sw_14_1_20100503	LT05_027039_20100503	0.01	5	0.002	0.053	0.536	0.160	0.001	0.019	0.665	0.093	<0.001	0.032	0.400	0.253
m_3909127_ne_15_1_20090628	LT05_024033_20090628	4.78	1915	0.002	-0.066	0.613	<0.001	0.001	-0.022	0.695	<0.001	0.001	-0.026	0.595	<0.001
m_3010244_se_13_1_20100813	LT05_030039_20100812	0.01	6	0.001	0.100	0.742	0.027	0.002	-0.031	0.918	0.003	0.001	-0.007	0.927	0.002
m_3810238_se_13_1_20090801	LT05_031033_20090731	0.01	6	<0.001	0.234	0.284	0.277	0.001	-0.007	0.851	0.009	0.001	0.002	0.863	0.007
m_4610262_sw_13_1_20090628	LT05_033028_20090627	0.02	10	0.002	0.001	0.506	0.021	<0.001	0.058	0.139	0.289	<0.001	0.023	0.574	0.011
m_3009741_se_14_1_20100503	LT05_027039_20100503	0.04	22	0.001	0.105	0.692	<0.001	0.001	-0.014	0.921	<0.001	0.001	-0.011	0.938	<0.001
m_4808958_se_16_1_20080826	LT05_026026_20080826	0.01	5	0.001	0.052	0.763	0.053	<0.001	0.018	0.674	0.089	<0.001	0.015	0.536	0.160
m_4407029_ne_19_1_20110716	LT05_012029_20110716	0.1	40	0.001	0.050	0.731	<0.001	0.001	-0.055	0.876	<0.001	0.001	-0.040	0.899	<0.001
m_4408556_ne_16_1_20100704	LT05_022029_20100703	0.5	230	0.002	-0.020	0.940	<0.001	0.001	-0.029	0.625	<0.001	0.001	-0.024	0.600	<0.001

NAIP Image ID	Landsat Image ID	Thresh-hold	PIV pixels	a (NIR)	b (NIR)	r ² (NIR)	p (NIR)	a (R)	b (R)	r ² (R)	p (R)	a (G)	b (G)	r ² (G)	p (G)
m_4608527_ne_16_1_20100703	LT05_022028_20100703	4.88	2140	0.002	-0.074	0.856	<0.001	0.001	-0.016	0.513	<0.001	0.001	-0.019	0.545	<0.001
m_3508134_sw_17_1_20100621	LT05_018035_20100621	4.64	2329	0.001	0.055	0.617	<0.001	0.001	-0.049	0.839	<0.001	0.001	-0.037	0.835	<0.001
m_3810906_sw_12_1_20110623	LT05_036033_20110622	0.1	50	0.002	0.114	0.904	<0.001	0.001	<0.001	0.816	<0.001	0.001	0.026	0.712	<0.001
m_4809956_ne_14_1_20100718	LT05_031027_20100718	3.36	1397	0.002	0.005	0.969	<0.001	0.001	-0.025	0.928	<0.001	0.001	-0.014	0.917	<0.001
m_4312353_se_10_1_20090622	LT05_046030_20090622	0.01	5	0.001	0.024	0.980	0.001	0.001	-0.077	0.928	0.008	0.001	-0.078	0.931	0.008
m_3910035_sw_14_1_20100711	LT05_030033_20100711	0.01	5	0.003	-0.178	0.977	0.001	<0.001	0.054	0.606	0.121	0.001	0.033	0.984	0.001
m_4411531_nw_11_1_20110812	LT05_041029_20110812	5	2297	0.001	0.097	0.744	<0.001	0.001	0.026	0.615	<0.001	<0.001	0.024	0.571	<0.001
m_3411662_ne_11_1_20100508	LT05_039036_20100507	0.02	11	0.002	0.039	0.760	<0.001	0.002	0.025	0.658	0.002	0.002	0.033	0.686	0.002
m_3908239_sw_17_1_20111006	LT05_019033_20111005	0.01	4	0.003	0.034	0.957	0.022	0.001	0.011	0.996	0.002	0.001	0.008	1.000	<0.001
m_3912318_ne_10_1_20090622	LT05_046032_20090622	0.01	5	0.001	0.055	0.975	0.002	<0.001	0.058	0.650	0.099	<0.001	0.154	0.474	0.199
m_4008243_ne_17_1_20111005	LT05_019032_20111005	0.01	5	0.003	0.036	0.979	0.001	<0.001	0.019	0.979	0.001	<0.001	0.019	0.985	0.001
m_3709737_ne_14_1_20080707	LT05_028034_20080707	0.01	6	0.003	-0.077	0.888	0.005	<0.001	0.036	0.755	0.025	<0.001	0.041	0.754	0.025
m_3410728_ne_13_1_20110523	LT05_034036_20110523	0.01	6	0.003	0.059	0.979	<0.001	0.001	-0.019	0.962	0.001	0.001	-0.020	0.984	<0.001
m_3410932_ne_12_1_20110515	LT05_035036_20110514	0.07	34	-0.001	0.378	0.232	0.004	-0.001	0.291	0.207	0.007	-0.001	0.232	0.188	0.011
c_3610129_sw_14_2_20060925	LT05_031035_20060925	0.02	11	0.001	0.044	0.969	<0.001	0.001	0.043	0.816	<0.001	0.001	0.036	0.777	<0.001

NAIP Image ID	Landsat Image ID	Thres-hold	PIV pixels	a (NIR)	b (NIR)	r ² (NIR)	p (NIR)	a (R)	b (R)	r ² (R)	p (R)	a (G)	b (G)	r ² (G)	p (G)
m_4511536_sw_11_1_20090722	LT05_041028_20090721	0.02	9	0.001	0.083	0.856	<0.001	0.001	-0.022	0.896	<0.001	0.001	-0.017	0.767	0.002
m_3809206_sw_15_1_20100623	LT05_025033_20100622	0.03	15	0.001	0.029	0.873	<0.001	0.001	0.011	0.712	<0.001	<0.001	0.033	0.537	0.002
m_4307049_se_19_1_20110717	LT05_012030_20110716	2.6	1200	0.002	0.009	0.953	<0.001	0.001	-0.064	0.873	<0.001	0.001	-0.054	0.832	<0.001
m_3009945_se_14_1_20080520	LT05_028039_20080520	3.24	1722	0.001	-0.066	0.434	<0.001	<0.001	0.043	0.268	<0.001	<0.001	0.039	0.269	<0.001
m_3908523_ne_16_1_20080807	LT05_021032_20080807	0.02	10	0.002	-0.030	0.994	<0.001	0.001	-0.063	0.989	<0.001	0.001	-0.100	0.991	<0.001
c_3110451_nw_13_2_20060916	LT05_032038_20060916	0.01	6	<0.001	0.179	0.951	0.001	0.001	0.073	0.606	0.068	<0.001	0.069	0.585	0.076
c_2709722_se_14_2_20060519	LT05_026041_20060517	0.01	6	<0.001	0.013	0.467	0.135	<0.001	0.022	0.620	0.063	<0.001	0.076	0.145	0.456
m_2609704_se_14_1_20100430	LT05_026041_20100426	0.01	6	0.002	0.009	0.999	<0.001	0.001	0.021	0.991	<0.001	0.001	0.042	0.992	<0.001
m_4109412_se_15_1_20100924	LT05_027031_20100924	0.01	5	0.001	-0.005	0.624	0.112	0.001	-0.065	0.975	0.002	0.001	-0.111	0.996	<0.001
m_3008413_sw_16_1_20090720	LT05_018039_20090720	0.07	38	0.002	0.016	0.968	<0.001	0.001	-0.012	0.964	<0.001	0.001	-0.015	0.968	<0.001
m_2909733_ne_14_1_20100503	LT05_027040_20100503	0.01	4	0.003	-0.122	0.625	0.210	0.001	-0.062	0.828	0.090	0.001	-0.034	0.785	0.114
m_4307349_sw_18_1_20110730	LT05_014030_20110730	1	464	0.002	0.022	0.778	<0.001	0.001	-0.027	0.617	<0.001	0.001	-0.027	0.559	<0.001
m_4611663_sw_11_1_20110803	LT05_042028_20110803	0.02	9	0.001	0.113	0.750	0.003	0.001	0.024	0.601	0.014	0.001	0.010	0.917	<0.001
m_4209927_ne_14_1_20100702	LT05_031030_20100702	2.86	1310	0.001	0.031	0.883	<0.001	0.001	-0.035	0.914	<0.001	0.001	-0.026	0.906	<0.001
m_3611362_se_12_1_20100617	LT05_038035_20100617	0.01	6	0.001	0.058	0.769	0.022	0.001	0.002	0.640	0.056	0.001	-0.003	0.742	0.028

NAIP Image ID	Landsat Image ID	Thres- hold	PIV pixels	a (NIR)	b (NIR)	r² (NIR)	p (NIR)	a (R)	b (R)	r² (R)	p (R)	a (G)	b (G)	r² (G)	p (G)
m_4809257_se_15_1_20080824	LT05_028026_20080824	0.05	21	<0.001	0.014	0.229	0.028	<0.001	0.005	0.506	<0.001	<0.001	-0.001	0.766	<0.001
m_3311307_ne_12_1_20100626	LT05_037036_20100626	0.05	26	0.003	-0.116	0.881	<0.001	0.003	-0.082	0.933	<0.001	0.002	-0.064	0.919	<0.001
m_3608629_se_16_1_20080715	LT05_020035_20080715	0.02	9	0.003	-0.114	0.918	<0.001	0.001	-0.044	0.913	<0.001	0.001	-0.027	0.833	0.001
m_4308953_ne_16_1_20100702	LT05_024030_20100701	0.12	48	0.001	0.086	0.489	<0.001	0.001	-0.027	0.680	<0.001	0.001	0.003	0.633	<0.001
m_3508343_ne_17_1_20100831	LT05_019035_20100831	0.02	10	0.003	-0.292	0.913	<0.001	0.001	-0.047	0.876	<0.001	0.001	-0.028	0.894	<0.001
m_3811554_se_11_1_20100702	LT05_040033_20100701	0.03	13	0.001	0.091	0.300	0.053	0.001	0.079	0.536	0.004	0.001	0.068	0.466	0.010
m_4212124_se_10_1_20090711	LT05_044030_20090710	0.01	4	0.005	-0.376	0.677	0.177	0.001	0.015	0.792	0.110	0.001	-0.038	0.932	0.035
m_4309552_sw_15_1_20110817	LT05_028030_20110817	0.49	228	0.002	0.085	0.633	<0.001	0.002	-0.155	0.659	<0.001	0.001	-0.151	0.645	<0.001

Table S2. NDVI validation results at 150 sites.

NAIP Image ID	Landsat Image ID	r ² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r ² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4012327_ne_10_1_20090622	LT05_046032_20090622	0.906	0.029	0.903	0.021	0.825	0.446	-21.214	0.439
m_3210843_se_12_1_20110507	LT05_034038_20110507	0.951	0.014	0.933	0.008	0.913	0.339	-37.457	0.337
m_4612058_sw_10_1_20090701	LT05_045028_20090701	0.888	0.037	0.854	0.028	0.812	0.385	-15.223	0.382
m_3908442_ne_16_1_20100604	LT05_020033_20100603	0.918	0.047	0.904	0.036	0.886	0.314	-3.325	0.294
m_4109343_sw_15_1_20110718	LT05_026031_20110718	0.840	0.042	0.829	0.030	0.714	0.515	-25.047	0.506
m_3710036_ne_14_1_20080722	LT05_030034_20080721	0.950	0.053	0.950	0.042	0.943	0.386	-1.716	0.378
m_4209642_se_14_1_20090701	LT05_029031_20090701	0.926	0.046	0.893	0.039	0.926	0.371	-5.888	0.367
m_4610262_se_13_1_20090628	LT05_033028_20090627	0.846	0.045	0.844	0.032	0.837	0.487	-17.464	0.484
m_4811038_se_12_1_20090723	LT05_039026_20090723	0.935	0.031	0.910	0.024	0.907	0.334	-9.533	0.332
m_3310821_se_12_1_20110515	LT05_035037_20110514	0.875	0.029	0.859	0.023	0.766	0.464	-34.945	0.463
m_4612058_sw_10_1_20110824	LT05_045028_20110824	0.831	0.040	0.830	0.031	0.580	0.458	-21.291	0.450
m_4109113_se_15_1_20100826	LT05_025031_20100825	0.837	0.042	0.789	0.032	0.671	0.627	-46.636	0.619
m_4611064_se_12_1_20090716	LT05_038028_20090716	0.866	0.043	0.855	0.033	0.830	0.375	-9.878	0.369
m_3912025_nw_10_1_20090704	LT05_043033_20090703	0.809	0.038	0.796	0.030	0.774	0.301	-11.540	0.293

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_2809815_nw_14_1_20100504	LT05_027040_20100503	0.848	0.047	0.813	0.036	0.809	0.472	-18.100	0.467
m_3109260_sw_15_1_20100803	LT05_024038_20100802	0.822	0.048	0.803	0.037	0.685	0.501	-20.212	0.497
m_3909939_sw_14_1_20080705	LT05_030033_20080705	0.881	0.052	0.879	0.039	0.857	0.347	-4.443	0.341
m_4109915_se_14_1_20090708	LT05_030031_20090708	0.875	0.059	0.853	0.044	0.867	0.311	-3.120	0.301
m_3408130_ne_17_1_20110430	LT05_017036_20110430	0.807	0.046	0.764	0.035	0.805	0.515	-28.746	0.513
m_4110153_ne_14_1_20100718	LT05_031031_20100718	0.775	0.032	0.729	0.023	0.740	0.245	-14.895	0.241
m_3009603_sw_14_1_20100801	LT05_026039_20100731	0.881	0.064	0.881	0.046	0.868	0.448	-4.805	0.438
m_4209622_se_14_1_20110817	LT05_028030_20110817	0.868	0.062	0.771	0.047	0.690	0.591	-19.991	0.576
m_4711140_ne_12_1_20090723	LT05_039027_20090723	0.937	0.043	0.845	0.034	0.899	0.368	-10.311	0.367
m_4008960_nw_16_1_20100624	LT05_023032_20100624	0.887	0.068	0.851	0.057	0.876	0.446	-5.327	0.441
m_4710708_se_13_1_20110716	LT05_037027_20110715	0.807	0.034	0.784	0.024	0.820	0.242	-9.919	0.240
m_3109349_ne_15_1_20100825	LT05_025038_20100825	0.752	0.035	0.545	0.027	0.700	0.567	-118.391	0.565
m_4410130_ne_14_1_20100726	LT05_032029_20100725	0.870	0.049	0.820	0.038	0.835	0.300	-5.766	0.298
m_3709833_nw_14_1_20100618	LT05_029034_20100618	0.839	0.057	0.809	0.047	0.820	0.306	-4.507	0.301

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4811013_nw_12_1_2009072_3	LT05_039026_20090723	0.815	0.030	0.760	0.022	0.642	0.356	-33.955	0.354
m_3810702_se_13_1_20110920	LT05_035033_20110919	0.839	0.060	0.801	0.045	0.833	0.356	-5.929	0.350
m_3809601_sw_14_1_20080707	LT05_028033_20080707	0.888	0.066	0.814	0.054	0.876	0.438	-7.208	0.428
m_4710733_nw_13_1_2011071_6	LT05_037027_20110715	0.898	0.070	0.845	0.045	0.875	0.331	-2.485	0.320
c_3708935_nw_16_1_20030621	LT05_023034_20030621	0.838	0.064	0.797	0.052	0.832	0.319	-3.983	0.313
m_3408131_nw_17_1_2011043_0	LT05_017036_20110430	0.785	0.053	0.697	0.043	0.769	0.541	-31.131	0.539
m_3108823_nw_16_1_2011081_6	LT05_021038_20110816	0.774	0.042	0.739	0.030	0.807	0.422	-25.696	0.420
m_4409762_nw_14_1_2010080_6	LT05_029029_20100805	0.835	0.063	0.736	0.053	0.821	0.374	-8.383	0.369
m_3808843_sw_16_1_20100625	LT05_023033_20100624	0.889	0.058	0.861	0.046	0.887	0.457	-7.612	0.454
m_4109247_ne_15_1_20110719	LT05_026031_20110718	0.776	0.062	0.718	0.043	0.762	0.528	-19.279	0.521
m_3511009_sw_12_1_20070618	LT05_037035_20070618	0.581	0.007	0.570	0.005	0.567	0.074	-43.932	0.074
m_3610261_sw_13_1_20100820	LT05_031035_20100819	0.897	0.087	0.835	0.063	0.894	0.334	-1.401	0.325
m_3010448_se_13_1_20080930	LT05_031039_20080930	0.770	0.039	0.710	0.028	0.779	0.174	-4.878	0.170
m_4411830_ne_11_1_20090719	LT05_043029_20090719	0.847	0.067	0.784	0.053	0.895	0.375	-5.815	0.371

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4810351_ne_13_1_20090711	LT05_035026_20090711	0.812	0.066	0.777	0.040	0.845	0.404	-7.478	0.399
m_3110822_ne_12_1_20110507	LT05_034038_20110507	0.605	0.008	0.568	0.006	0.334	0.331	-717.012	0.329
m_4311362_se_12_1_20090715	LT05_040030_20090714	0.629	0.018	0.606	0.014	0.625	0.161	-28.952	0.159
m_4411531_ne_11_1_20110812	LT05_041029_20110812	0.799	0.054	0.724	0.043	0.563	0.468	-19.420	0.460
m_4311156_se_12_1_20090802	LT05_038030_20090801	0.900	0.094	0.892	0.068	0.932	0.356	-0.537	0.346
m_3208219_sw_17_1_20100903	LT05_017037_20100902	0.718	0.064	0.705	0.047	0.676	0.484	-16.129	0.479
m_3311456_sw_11_1_20100703	LT05_038037_20100703	0.699	0.018	0.466	0.014	0.569	0.120	-21.595	0.119
m_4310521_sw_13_1_20090812	LT05_035030_20090812	0.589	0.020	0.575	0.015	0.550	0.101	-9.991	0.097
m_4410540_nw_13_1_20090812	LT05_035029_20090812	0.792	0.042	0.640	0.034	0.791	0.165	-4.489	0.160
m_3907716_sw_18_1_20100703	LT05_015032_20100702	0.866	0.081	0.775	0.068	0.846	0.400	-4.498	0.394
m_3310953_sw_12_1_20100815	LT05_035037_20100815	0.710	0.046	0.696	0.035	0.744	0.294	-11.234	0.290
m_4811516_nw_11_1_20110820	LT05_042026_20110819	0.749	0.073	0.710	0.048	0.773	0.382	-6.845	0.376
m_4612140_ne_10_1_20090701	LT05_045028_20090701	0.853	0.061	0.745	0.051	0.790	0.443	-12.397	0.438
m_4612025_ne_10_1_20090701	LT05_045028_20090701	0.902	0.084	0.753	0.066	0.884	0.412	-4.899	0.407

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4112010_se_10_1_20090624	LT05_044031_20090624	0.753	0.045	0.678	0.030	0.765	0.454	-32.329	0.452
m_4612032_se_10_1_20090701	LT05_045028_20090701	0.790	0.036	0.632	0.027	0.451	0.359	-36.609	0.355
m_4111412_sw_11_1_20100702	LT05_040031_20100701	0.782	0.044	0.582	0.033	0.713	0.204	-8.098	0.201
m_3408430_nw_16_1_20100831	LT05_019036_20100831	0.692	0.062	0.457	0.050	0.772	0.532	-39.549	0.530
m_4107916_sw_17_1_20100530	LT05_017031_20100529	0.712	0.064	0.465	0.052	0.710	0.495	-30.592	0.493
m_3110822_nw_12_1_20110507	LT05_034038_20110507	0.545	0.009	0.190	0.008	0.308	0.305	-866.227	0.305
m_3912043_nw_10_1_20090703	LT05_043033_20090703	0.836	0.082	0.625	0.069	0.732	0.413	-8.467	0.399
m_4810440_sw_13_1_20090721	LT05_034026_20090720	0.804	0.073	0.588	0.056	0.795	0.333	-7.501	0.329
m_4112354_sw_10_1_20090622	LT05_046031_20090622	0.687	0.063	0.445	0.053	0.404	0.514	-36.407	0.497
m_4011003_se_12_1_20110901	LT05_037032_20110901	0.725	0.068	0.604	0.054	0.795	0.294	-6.339	0.281
m_4112309_se_10_1_20090622	LT05_046031_20090622	0.526	0.051	0.307	0.042	0.486	0.509	-68.859	0.502
m_4811745_nw_11_1_20110817	LT05_044026_20110817	0.350	0.043	-0.001	0.033	0.493	0.424	-97.673	0.419
m_4008710_sw_16_1_20100703	LT05_022032_20100703	0.872	0.108	0.638	0.090	0.885	0.408	-4.159	0.403
m_4512160_ne_10_1_20090701	LT05_045029_20090701	0.589	0.057	0.304	0.044	0.558	0.592	-75.167	0.590

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4307049_ne_19_1_20110717	LT05_012030_20110716	0.839	0.107	0.665	0.083	0.742	0.607	-9.737	0.596
m_4506961_ne_19_1_20110911	LT05_011029_20110911	0.534	0.051	0.178	0.041	0.552	0.475	-70.633	0.469
m_3709903_ne_14_1_20080714	LT05_029034_20080714	0.824	0.072	0.706	0.050	0.821	0.231	-2.021	0.224
m_3808308_sw_17_1_20111005	LT05_019033_20111005	0.656	0.078	0.143	0.062	0.717	0.511	-35.980	0.501
m_3809743_ne_14_1_20080707	LT05_028033_20080707	0.844	0.098	0.728	0.082	0.849	0.379	-3.065	0.371
m_4209334_ne_15_1_20110718	LT05_026031_20110718	0.801	0.095	0.395	0.073	0.664	0.596	-22.940	0.589
c_3510062_nw_14_1_20041023	LT05_029036_20041023	0.810	0.040	0.780	0.031	0.787	0.269	-8.947	0.265
m_4010446_ne_13_1_20110703	LT05_033032_20110703	0.903	0.111	0.743	0.083	0.888	0.307	-0.949	0.293
m_4312054_se_10_1_20110801	LT05_044030_20110801	0.658	0.023	0.078	0.019	0.684	0.172	-51.927	0.172
c_3410130_nw_14_1_20040827	LT05_030036_20040827	0.754	0.066	0.474	0.055	0.723	0.314	-10.743	0.310
m_3511761_ne_11_1_20090620	LT05_041036_20090619	0.389	0.011	-0.635	0.009	0.403	0.182	-443.901	0.182
m_2909746_ne_14_1_20100503	LT05_027040_20100503	0.871	0.061	0.734	0.051	0.866	0.534	-19.180	0.530
m_4511552_se_11_1_20090722	LT05_041029_20090721	0.671	0.075	0.597	0.059	0.715	0.434	-12.527	0.429
c_3010041_sw_14_2_20060811	LT05_029039_20060810	0.511	0.046	0.443	0.035	0.485	0.224	-12.100	0.219
m_3709139_nw_15_1_20100701	LT05_024034_20100701	0.785	0.091	0.206	0.083	0.794	0.430	-16.654	0.427

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_3810307_se_13_1_20090808	LT05_032033_20090807	0.737	0.049	0.276	0.041	0.704	0.096	-1.768	0.089
m_3611304_ne_12_1_20100617	LT05_038034_20100617	0.163	0.019	0.103	0.015	0.090	0.139	-48.412	0.137
m_4811953_sw_11_1_20110707	LT05_045026_20110707	0.836	0.081	0.401	0.065	0.826	0.445	-16.902	0.432
m_4109113_sw_15_1_20100826	LT05_025031_20100825	0.827	0.098	0.220	0.088	0.651	0.617	-30.158	0.609
m_4611427_nw_11_1_20090722	LT05_041028_20090721	0.750	0.056	0.647	0.044	0.621	0.413	-18.265	0.407
m_3211053_nw_12_1_20100603	LT05_036038_20100603	0.605	0.052	0.479	0.039	0.590	0.100	-0.923	0.090
m_3607812_sw_17_1_20080525	LT05_015035_20080525	0.608	0.095	0.514	0.067	0.427	0.682	-23.965	0.672
m_3607805_nw_17_1_20080525	LT05_015034_20080525	0.768	0.118	0.607	0.089	0.568	0.689	-12.412	0.677
c_3010411_se_13_2_20060916	LT05_032039_20060916	0.645	0.067	0.589	0.050	0.736	0.236	-4.189	0.229
m_4610730_nw_13_1_20090725	LT05_037027_20090725	0.267	0.026	0.129	0.019	0.280	0.364	-172.623	0.363
m_2709722_se_14_1_20100424	LT05_026041_20100426	0.902	0.172	0.736	0.140	0.893	0.355	-0.129	0.334
m_2910343_se_13_1_20080923	LT05_030040_20080923	0.615	0.041	0.236	0.029	0.719	0.029	0.602	0.021
c_3609064_sw_15_1_20030622	LT05_023035_20030621	0.901	0.164	0.547	0.143	0.830	0.315	-0.681	0.298
m_3709101_ne_15_1_20090628	LT05_024034_20090628	0.768	0.101	-0.038	0.086	0.742	0.408	-16.021	0.402

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4810761_sw_13_1_20090725	LT05_037027_20090725	0.149	0.049	-3.626	0.013	0.446	0.366	-253.001	0.365
m_4310354_sw_13_1_20100716	LT05_033030_20100716	0.548	0.064	0.479	0.038	0.650	0.188	-3.509	0.178
m_3710934_ne_12_1_20110623	LT05_036034_20110622	0.349	0.041	-0.564	0.018	0.122	0.335	-104.173	0.331
m_3311217_ne_12_1_20100610	LT05_037037_20100610	0.574	0.036	-0.296	0.031	0.634	0.131	-15.816	0.129
m_3009742_sw_14_1_20100503	LT05_027039_20100503	0.577	0.093	0.517	0.070	0.563	0.407	-8.250	0.392
m_3909127_ne_15_1_20090628	LT05_024033_20090628	0.715	0.101	0.696	0.053	0.861	0.395	-3.692	0.388
m_3010244_se_13_1_20100813	LT05_030039_20100812	0.664	0.071	0.316	0.051	0.745	0.182	-3.486	0.173
m_3810238_se_13_1_20090801	LT05_031033_20090731	0.742	0.107	0.701	0.082	0.917	0.112	0.668	0.094
m_4610262_sw_13_1_20090628	LT05_033028_20090627	0.604	0.088	0.426	0.069	0.792	0.495	-17.268	0.491
m_3009741_se_14_1_20100503	LT05_027039_20100503	0.611	0.093	0.465	0.072	0.594	0.375	-7.617	0.361
m_4808958_se_16_1_20080826	LT05_026026_20080826	0.357	0.066	-1.212	0.059	0.495	0.638	-203.272	0.633
m_4407029_ne_19_1_20110716	LT05_012029_20110716	0.211	0.080	-1.057	0.051	0.705	0.470	-70.876	0.468
m_4408556_ne_16_1_20100704	LT05_022029_20100703	0.676	0.104	0.088	0.091	0.701	0.510	-20.888	0.506
m_4608527_ne_16_1_20100703	LT05_022028_20100703	0.744	0.066	0.631	0.055	0.798	0.568	-26.435	0.566
m_3508134_sw_17_1_20100621	LT05_018035_20100621	0.783	0.056	0.733	0.043	0.742	0.600	-29.329	0.597

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_3810906_sw_12_1_20110623	LT05_036033_20110622	0.444	0.025	-0.435	0.021	0.058	0.310	-222.394	0.307
m_4809956_ne_14_1_20100718	LT05_031027_20100718	0.853	0.078	0.771	0.065	0.845	0.452	-6.688	0.441
m_4312353_se_10_1_20090622	LT05_046030_20090622	0.705	0.127	0.446	0.104	0.534	0.514	-8.104	0.499
m_3910035_sw_14_1_20100711	LT05_030033_20100711	0.828	0.174	0.417	0.146	0.866	0.305	-0.782	0.295
m_4411531_nw_11_1_20110812	LT05_041029_20110812	0.602	0.069	0.542	0.054	0.565	0.491	-22.039	0.484
m_3411662_ne_11_1_20100508	LT05_039036_20100507	0.214	0.030	-1.064	0.025	0.203	0.087	-16.402	0.083
m_3908239_sw_17_1_20111006	LT05_019033_20111005	0.676	0.104	-0.150	0.088	0.632	0.461	-21.554	0.451
m_3912318_ne_10_1_20090622	LT05_046032_20090622	0.964	0.260	-0.342	0.248	0.969	0.463	-3.269	0.454
m_4008243_ne_17_1_20111005	LT05_019032_20111005	0.857	0.170	-0.197	0.145	0.828	0.512	-9.901	0.501
m_3709737_ne_14_1_20080707	LT05_028034_20080707	0.694	0.128	0.465	0.105	0.916	0.404	-4.363	0.400
m_3410728_ne_13_1_20110523	LT05_034036_20110523	0.570	0.035	-1.362	0.032	0.005	0.418	-331.451	0.417
m_3410932_ne_12_1_20110515	LT05_035036_20110514	0.308	0.033	-1.083	0.026	0.361	0.375	-274.458	0.374
c_3610129_sw_14_2_20060925	LT05_031035_20060925	0.881	0.129	-1.000	0.119	0.709	0.236	-5.675	0.231
m_4511536_sw_11_1_20090722	LT05_041028_20090721	0.614	0.105	0.450	0.085	0.576	0.428	-8.097	0.417
m_3809206_sw_15_1_20100623	LT05_025033_20100622	0.798	0.169	0.127	0.154	0.776	0.372	-3.226	0.361

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_4307049_se_19_1_20110717	LT05_012030_20110716	0.842	0.090	0.790	0.066	0.803	0.600	-8.364	0.591
m_3009945_se_14_1_20080520	LT05_028039_20080520	0.462	0.073	0.233	0.056	0.506	0.187	-3.973	0.177
m_3908523_ne_16_1_20080807	LT05_021032_20080807	0.714	0.136	-0.411	0.123	0.755	0.461	-15.138	0.457
c_3110451_nw_13_2_20060916	LT05_032038_20060916	0.817	0.161	-0.273	0.131	0.790	0.261	-2.353	0.252
c_2709722_se_14_2_20060519	LT05_026041_20060517	0.893	0.312	-0.209	0.247	0.885	0.216	0.420	0.183
m_2609704_se_14_1_20100430	LT05_026041_20100426	0.623	0.103	0.419	0.086	0.680	0.358	-5.985	0.349
m_4109412_se_15_1_20100924	LT05_027031_20100924	0.780	0.172	0.019	0.141	0.884	0.288	-1.765	0.282
m_3008413_sw_16_1_20090720	LT05_018039_20090720	0.760	0.137	-1.044	0.132	0.682	0.514	-27.652	0.511
m_2909733_ne_14_1_20100503	LT05_027040_20100503	0.793	0.167	-0.684	0.136	0.815	0.386	-8.027	0.377
m_4307349_sw_18_1_20110730	LT05_014030_20110730	0.389	0.106	-0.560	0.096	0.371	0.590	-47.758	0.584
m_4611663_sw_11_1_20110803	LT05_042028_20110803	0.604	0.121	0.382	0.101	0.635	0.396	-5.615	0.375
m_4209927_ne_14_1_20100702	LT05_031030_20100702	0.795	0.053	0.778	0.040	0.810	0.334	-7.876	0.330
m_3611362_se_12_1_20100617	LT05_038035_20100617	0.638	0.080	-0.866	0.072	0.731	0.139	-4.651	0.136
m_4809257_se_15_1_20080824	LT05_028026_20080824	0.817	0.393	-0.489	0.339	0.862	0.687	-3.550	0.676
m_3311307_ne_12_1_20100626	LT05_037036_20100626	0.618	0.089	-0.621	0.078	0.603	0.156	-3.958	0.148

NAIP Image ID	Landsat Image ID	r² (SR)	RSME (SR)	NSE (SR)	MAE (SR)	r² (DN)	RSME (DN)	NSE (DN)	MAE (DN)
m_3608629_se_16_1_20080715	LT05_020035_20080715	0.228	0.241	-3.511	0.062	0.771	0.547	-22.305	0.538
m_4308953_ne_16_1_20100702	LT05_024030_20100701	0.641	0.189	-0.095	0.167	0.786	0.409	-4.112	0.396
m_3508343_ne_17_1_20100831	LT05_019035_20100831	0.002	0.568	-126.134	0.056	0.262	0.652	-166.462	0.649
m_3811554_se_11_1_20100702	LT05_040033_20100701	0.095	0.051	-12.939	0.047	0.098	0.051	-13.045	0.042
m_4212124_se_10_1_20090711	LT05_044030_20090710	0.195	0.121	-0.603	0.074	0.862	0.333	-11.237	0.330
m_4309552_sw_15_1_20110817	LT05_028030_20110817	0.691	0.247	-8.653	0.208	0.706	0.584	-52.916	0.573

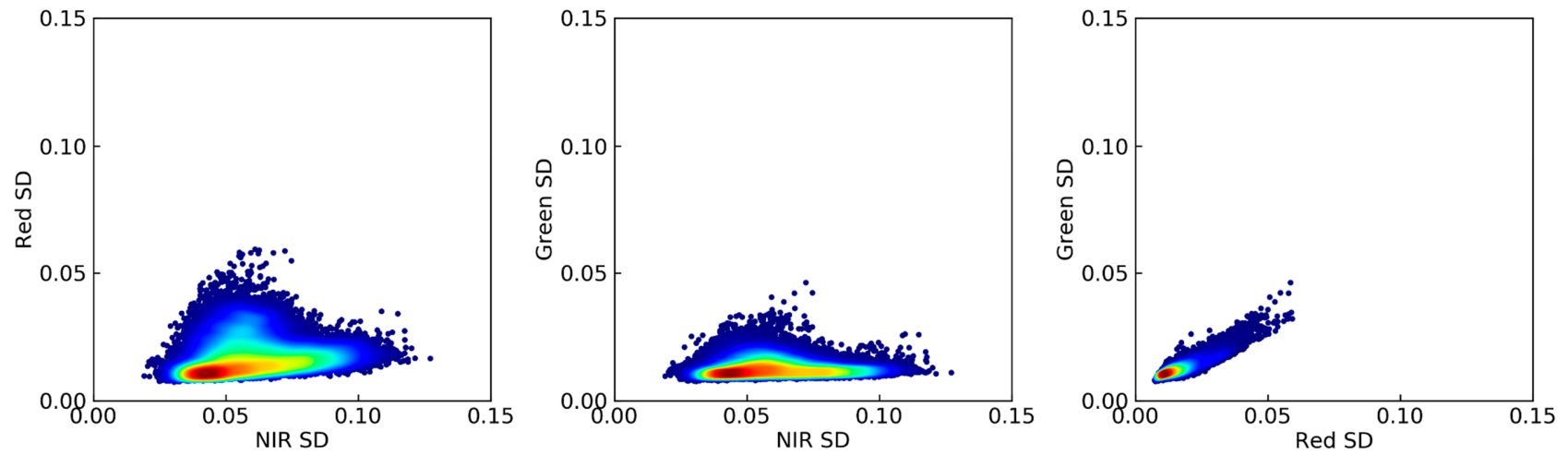


Figure S1. Comparison of pixelwise 10-year standard deviations of surface reflectance in red, green and NIR bands at Site 1.

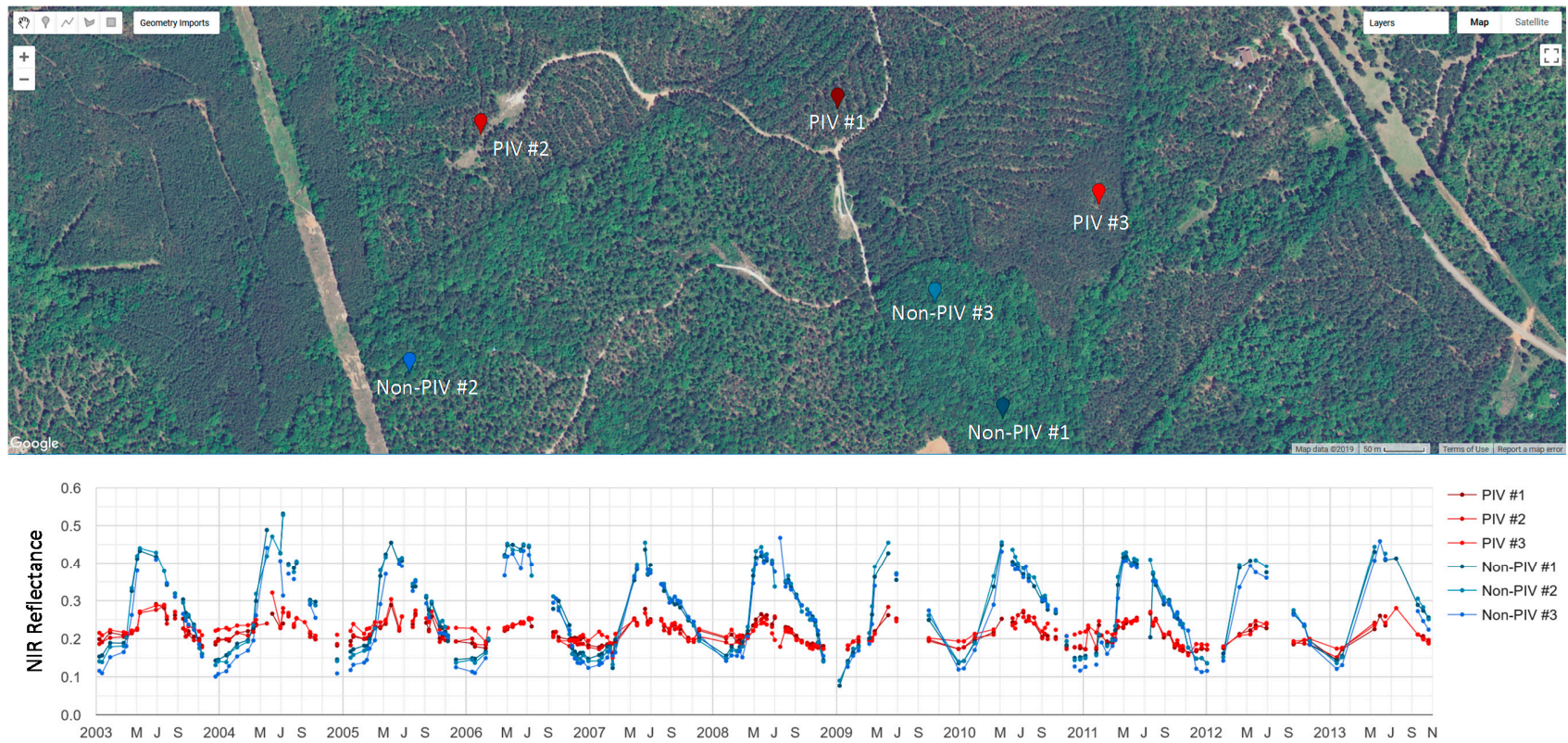


Figure S2. Comparison of 10-year NIR reflectance of PIV pixels and non-PIV pixels in vegetated areas at Site 3.