

Supplemental data for

“Determining Rainfall Erosivity in Costa Rica: A Practical Approach” by Julio César Calvo-Alvarado, César Dionisio Jiménez-Rodríguez, and Vladimir Jiménez-Salazar, published in *Mountain Research and Development* 34(1), 2014. (See <http://www.bioone.org/toc/mred/34/1>)

TABLE S1 Data employed in the study.

Station		Latitude (°)	Longitude (°)	Elevation (m asl)	R-factor (MJ mm ha ⁻¹ h ⁻¹ yr ⁻¹)	F index	MAP (mm yr ⁻¹)	Monthly precipitation (mm)											
ID	Name							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
34034	La Garita (EMB)	N 09.57	W 84.21	460	4746.9	269.8	2051.3	10.2	16.6	16.5	90.4	299.0	300.2	215.9	293.9	345.7	303.3	142.6	17.0
69505	Vara Blanca	N 10.10	W 84.09	1804	5100.9	347.5	3572.7	196.2	119.2	91.3	140.6	302.7	355.9	369.5	346.7	369.6	393.9	458.3	428.8
69524	Caño Negro	N 10.24	W 84.46	720	7793.5	422.4	4401.3	323.6	236.8	140.9	133.7	258.8	414.7	561.5	480.4	373.4	564.0	474.1	439.4
69528	Zarcero-Palmira	N 10.13	W 84.23	2010	4117.1	250.9	2278.8	75.0	37.0	29.2	81.7	260.8	260.8	211.0	315.2	356.0	294.4	180.7	177.0
69535	San Carlos-CRM	N 10.21	W 84.24	600	8945.7	436.5	4422.5	261.1	200.0	88.6	141.9	341.8	387.5	613.4	491.9	502.4	504.2	502.4	387.3
69539	Cariblanco	N 10.16	W 84.11	830	10331.1	428.2	4587.8	322.3	214.9	160.2	203.3	410.7	537.7	507.9	540.6	410.7	525.3	449.2	305.0
69543	Rio Cote	N 10.35	W 84.54	695	11086.8	489.8	5008.2	338.3	230.7	126.2	148.4	325.8	562.2	670.2	598.4	497.6	577.5	495.2	437.7
69551	Guatuso	N 10.41	W 84.49	50	4717.9	319.6	2978.2	123.6	85.1	48.8	78.3	227.3	402.8	404.6	409.6	370.0	348.9	272.0	207.2
69576	Bijagua	N 10.44	W 85.03	410	5883.8	381.8	3743.7	198.6	133.3	72.5	109.2	254.4	457.5	486.7	461.4	430.9	470.1	350.8	318.3
69577	Boca Tapada	N 10.41	W 84.13	60	6120.4	301.4	2996.8	139.1	108.4	76.7	126.5	198.9	351.9	448.4	381.7	304.2	299.4	287.4	274.2
69585	Nueva Tronadora	N 10.30	W 84.55	580	3417.6	221.3	1902.2	55.7	32.3	28.0	36.5	181.0	285.3	254.3	241.3	257.3	280.4	153.5	96.6
71002	La Mola	N 10.21	W 83.46	70	9808.6	346.8	3718.3	233.1	169.1	137.9	185.6	318.8	404.3	474.4	446.3	261	336.6	388.7	362.5
72101	Nicoya	N 10.09	W 85.27	120	5606.4	306.3	2194.1	5.1	10.5	24.3	67.7	278.2	325.6	239.3	301.3	394.3	407.3	115.5	25.0
72106	Santa Rosa	N 10.50	W 85.37	315	5820.8	256.7	1587.6	3.4	0.9	2.3	11.0	235.8	234.4	118.3	187.5	379.5	308.8	89.8	15.9
72114	Playa Panama	N 10.35	W 85.40	3	8615.5	317.8	1946.5	3.0	0.0	7.0	13.7	284.3	442.5	121.7	253.1	375.9	334.9	95.7	14.7
73003	Com. Cartago	N 09.52	W 83.55	1440	3523.1	160.5	1335.5	37.0	21.4	12.1	33.8	170.9	184.7	114.9	145.3	210.3	228	117.3	59.8
73010	Turrialba	N 09.53	W 83.38	602	4677.1	239.4	2607.0	174.5	132.5	81.2	122.2	220.8	280.5	275.6	241.2	250.6	247.4	274.8	305.7
73011	San Durán	N 09.56	W 83.53	2337	2724.9	185.0	1512.6	29.3	14.5	8.7	40.5	189.6	210.8	132.6	156.3	212.1	277.4	163.8	77.0
73013	Los Diamantes	N 10.13	W 83.46	249	10933.6	396.0	4419.5	289.4	219.5	190.4	244.9	398.5	429.6	482.3	428.0	357.7	445.6	448.6	485.0
73022	Pacayas	N 09.55	W 83.49	1735	3594.6	209.9	2234.2	169.1	81.5	65.4	98.9	181.8	220.4	222.5	198.9	235.5	278	236.8	245.4
73026	Tapanti	N 09.46	W 83.50	1203	5058.3	282.9	2711.9	122.5	75.0	57.7	87.2	271.2	380.3	323.2	328.4	355.7	319.4	205.3	186.0
73027	Cañón	N 09.41	W 83.54	2460	2328.3	261.3	2120.4	30.5	17.9	23.1	63.7	265.3	299.1	219.3	283.4	330.1	341.2	169.2	77.6
73028	El Humo	N 09.48	W 83.43	680	7310.1	330.4	3235.9	132.6	103.7	62.3	120.7	337.0	413.4	374.6	398.8	409.8	377.1	265.2	240.7
73029	El Llano	N 09.46	W 83.52	1572	4525.6	291.8	2934.1	129.1	93.2	88.9	134.0	313.6	359.5	325.7	347.0	374.4	344.7	242.6	181.4
73030	Condorcillal	N 09.45	W 83.47	1240	14805.7	478.7	5372.2	351.9	301.2	239.4	296.0	450.5	564.7	600.1	583.3	527.3	530.7	447.1	480.0
73033	Villa Mills	N 09.34	W 83.43	3000	1931.8	340.9	2736.8	33.6	27.9	29.0	103.9	374.6	349.1	250.9	336.0	427.1	488.7	229.6	86.4
73034	Belén	N 09.44	W 83.53	2020	3987.8	314.5	3217.9	167.2	102.9	104.5	131.2	301.6	366.5	356.1	421.2	375.9	361.8	308.5	220.5
73036	T-Seis	N 09.43	W 83.46	2000	10394.1	669.7	7555.8	555.9	392.1	350.8	407.9	639.0	749.9	749.6	806.7	681.0	817.3	753.3	652.3
73037	Destierro	N 09.42	W 83.45	2020	9063.2	570.3	6408.4	405.8	300.0	297.0	399.3	599.4	627.5	626.2	664.0	613.5	714.7	631.7	529.3
73038	Ojo de Agua	N 09.37	W 83.49	2960	1700.3	279.2	2648.0	80.6	63.2	49.4	117.6	299.1	336.2	262.3	328.8	355.6	346.7	243.8	164.7
73039	Tres de Junio	N 09.40	W 83.51	2630	2724.9	307.2	2978.6	121.4	77.4	49.1	116.2	311.9	375.6	320.2	372.4	372.3	370.1	279.5	212.5
73040	Berma	N 09.40	W 83.49	2480	2828.7	362.5	3758.8	194.6	138.6	83.3	165.1	346.1	428.5	394.1	440.9	413.0	428.6	377.7	348.3
73041	La Cangreja	N 09.48	W 83.58	1830	3077.2	175.2	1700.4	70.3	48.9	45.4	80.7	183.9	211.9	160.1	188.2	242.3	239.1	121.1	108.5
73042	Muñeco	N 09.48	W 83.55	1410	2062.8	193.5	1908.2	81.0	58.3	52.5	75.2	223.7	240.2	196.2	206.2	256.7	239.5	138.3	140.4
73043	Cerro de la Muerte Falda	N 09.36	W 83.43	2690	1668.0	246.7	2038.1	36.0	27.3	21.1	66.5	244.2	276.4	183.4	266.6	320.4	329.9	197.3	69.0
73044	La Suiza	N 09.51	W 83.37	620	4900.1	235.0	2470.6	129.7	92.5	67.0	113.6	224.9	290.4	255.7	240.5	278.4	278.6	251.8	247.5
73045	Taus	N 09.46	W 83.43	900	8406.2	454.0	4577.0	209.0	170.6	143.7	192.2	448.2	585.7	494.0	563.8	594.0	510.9	391.1	273.8
73046	Cachi Plantel	N 09.49	W 83.48	1018	4552.9	183.9	1926.8	105.4	80.0	62.3	74.0	189.1	219.4	206.6	216.2	245.0	189.4	152.3	187.1
73051	Dos Amigos	N 09.42	W 83.47	1470	12145.5	578.4	6349.2	387.2	300.3	236.5	325.7	561.0	678.3	652.4	728.8	644.5	643.9	602.2	588.4
73055	La Amistad	N 09.59	W 83.34	560	6527.2	327.4	3678.4	285.9	209.2	143.4	221.3	261.2	349.4	404.1	378.9	315.4	331.1	381.9	396.6
73057	Tábano	N 09.44	W 83.42	1360	9788.2	637.0	6685.7	300.3	253.8	241.9	370.3	727.8	763.2	628.6	710.9	773.3	844.8	609.5	461.3
73059	Laguna	N 09.58	W 83.52	2140	1851.8	221.3	1898.9	32.9	24.4	21.2	71.2	247.4	217.1	170.6	232.4	271.3	308.8	210.8	90.8
73063	El Gato	N 09.42	W 83.42	1600	11985.5	638.8	6885.5	347.6	293.7	283.4	404.6	754.1	756.5	611.7	693.2	734.2	856.9	668.0	481.6
73074	San Antonio	N 09.58	W 83.43	1190	7487.1	299.2	3392.9	260.1	185.0	166.5	189.9	261.7	328.9	331.8	333.9	286.4	315.8	343.6	389.3
73075	Cerro Gemelos	N 09.42	W 83.48	1840	6811.4	561.9	6109.6	335.7	304.8	250.7	286.8	539.2	662.8	656.6	697.9	623.0	622.0	666.4	463.7
73078	Coliblanco	N 09.57	W 83.48	2200	2673.8	265.7	2899.4	208.1	126.6	92.3	149.7	244.2	279.0	299.8	282.4	277.9	346.1	294.2	299.1
73079	Oriente	N 09.47	W 83.43	623	10608.6	406.7	3943.0	159.2	120.1	104.8	145.2	399.6	509.8	455.4	500.0	544.1	451.8	304.9	248.1
73080	Cerro Muerte Rep.	N 09.34	W 83.46	3365	2234.7	310.8	2446.5	31.8	24.0	23.7	107.2	390.1	338.5	192.4	333.5	366.0	399.7	187.9	51.7
73081	Volcán Irazú	N 09.59	W 83.51	3400	2522.4	206.6	2027.4	86.2	57.2	32.6	96.8	207.7	222.6	171.3	206.2	229.1	274.8	281.2	161.7

73082	Cobal	N 10.15	W 83.40	55	11961.7	380.1	3932.2	361.9	161.8	112.6	210.6	282.4	319.1	498.2	337.7	282.6	303.9	506.9	554.5
73091	Hacienda El Carmen	N 10.12	W 83.29	15	13624.5	335.4	3625.4	290.6	208.7	141.5	208.3	245.8	340.6	479.4	399.8	232	257.1	432.1	389.5
74003	Santa Cruz	N 10.16	W 83.35	54	5560.4	272.0	1827.7	7.2	4.0	6.1	31.4	241.9	293.6	182.8	232.5	350.4	361.5	100.7	15.6
74006	La Guinea	N 10.25	W 85.28	40	5637.0	255.4	1756.0	4.2	2.1	6.7	60.9	254.0	274.8	135.7	235.8	349.6	310.6	108.6	13.0
74019	Guachipelin	N 10.45	W 85.23	520	8292.1	306.3	1924.8	4.9	3.7	6.8	29.3	279.5	326.0	152.6	192.6	402.3	417.7	83.3	26.1
74020	Liberia (Ll. G.)	N 10.63	W 85.32	85	5291.5	244.8	1640.2	3.9	1.2	5.2	22.3	199.7	265.6	160.6	184.8	343.7	312.0	121.8	19.4
75002	Siquirres	N 10.06	W 83.31	70	10079.2	332.6	3690.5	276.8	197.7	144.8	258.8	245.7	370.5	387.4	372.8	262.3	313.7	419.1	440.9
75003	Platanillo	N 09.49	W 83.34	889	4071.2	260.5	2731.5	139.2	100	76.6	126.6	253.7	326.2	261.2	264.4	300.0	309.9	305.6	268.1
75004	Pacuare	N 09.49	W 83.31	800	2881.5	263.0	2755.4	143.5	100.5	69.7	137.2	246.7	291.3	248.0	282.8	325.0	303.9	326.4	280.4
75007	Rocas Blancas	N 09.45	W 83.30	825	5129.8	300.3	2975.1	117.9	72.5	72.5	157.0	297.5	345.8	274.3	327.3	379.0	378.1	361.3	191.9
75008	Cuencas	N 09.44	W 83.36	1835	7994.3	479.6	4869.6	214.1	165.1	139.9	256.6	520.1	588.1	381.6	477.4	599.9	665.1	513.1	348.6
75022	F. Mirador	N 10.02	W 83.28	440	10479.2	359.3	4011.2	293.4	160.1	247.5	286.9	332.0	409.3	474.5	499.3	284.8	382.5	343.3	297.6
76002	Tilarán	N 10.28	W 84.58	562	4299.3	252.3	2065.0	61.3	28.3	20.2	30.7	193.1	312.4	195.9	232.7	351.6	347.0	170.2	121.6
76008	Taboga	N 10.21	W 85.09	40	7015.6	248.4	1696.4	2.2	5.8	9.7	43.9	239.9	254.8	121.9	224.2	316.2	343.1	117.2	17.5
76026	Bagaces	N 10.32	W 85.15	80	7866.6	235.0	1488.3	0.9	14.8	6.9	30.4	260.0	262.6	129.8	149.5	350.5	216.5	53.4	13.0
76034	Fortuna-Bagaces	N 10.41	W 85.12	430	5883.8	211.9	1479.8	8.1	2.2	3.8	35.7	235.0	239.3	123.3	165.4	277.2	266.0	92.9	30.9
77001	Batán	N 10.05	W 83.20	15	10016.3	273.1	3102.5	297.1	216.3	157.3	241.9	231.4	241.3	351.4	282.3	189.6	212.7	360.2	321.0
77002	La Lola	N 10.06	W 83.23	40	8236.0	329.3	3563.0	303.6	214.1	166.6	222.9	279.9	312.2	401.8	296.5	184.4	249.1	432.3	499.6
78002	Monteverde	N 10.18	W 84.48	1460	5320.5	299.8	2514.4	76.4	47.1	30.7	43.8	256.4	355.2	241.7	283.1	400.6	436.6	207.2	135.6
78003	Puntarenas	N 09.58	W 84.50	3	7470.1	216.9	1567.1	6.3	6.0	5.7	30.7	193.8	223.7	165.2	219.6	293.4	272.6	120.4	29.7
79007	Boston	N 10.00	W 83.15	16	6862.5	269.7	2976.0	207.4	194.6	187.5	229.5	220.4	270.4	250.5	351.1	157.8	170.1	345.7	391.0
80005	Nagatac	N 10.04	W 84.33	450	15037.2	483.3	3383.6	7.5	17.5	23.8	103.5	454.6	484.9	326.6	489.5	695.6	561.8	187.8	30.5
80007	Macacona	N 10.00	W 84.38	240	6642.9	360.6	2640.2	10.9	7.3	3.4	67.0	292.8	358.7	338.4	420.4	476.5	418.6	190.5	55.7
81003	Limón	N 10.00	W 83.03	5	11711.5	321.8	3522.9	317.3	210.7	203.9	276.0	282.0	295.6	427.3	312.4	145.3	206.4	390.9	455.1
84001	San José	N 09.56	W 84.05	1172	3511.2	255.8	1887.0	9.1	5.3	11.6	43.7	222.1	288.9	213.1	249.7	328.1	332.6	141.7	41.1
84021	Juan Santamaria	N 10.00	W 84.12	932	3475.5	259.8	1947.8	7.2	12.5	14.3	79.7	272.4	267.9	178.5	255.4	343.5	340.3	147.1	29.0
84023	La Central (FB)	N 10.01	W 84.16	840	3950.3	259.8	1951.3	6.8	12.1	14.8	71.2	267.9	284.8	197.1	267.6	331.8	329.3	136.7	31.2
84030	Laguna Fraijanes	N 10.05	W 84.11	1500	7362.9	399.6	3392.1	62.6	48.6	48.2	114.5	465.0	479.5	334.0	361.6	551.3	470.4	317.4	139.0
84040	Alto Ochozomogo	N 09.54	W 83.57	1546	4636.2	258.8	1834.4	9.8	7.3	9.2	39.9	225.8	287.8	142.7	191.6	338.8	370.3	168.1	43.1
84046	San Josecito Heredia	N 10.02	W 84.00	1450	3987.8	245.4	2481.4	124.8	87.0	64.0	85.2	238.8	277.3	242.5	274.2	320.2	322.7	244.8	199.9
84063	Volcán Poás	N 10.11	W 84.14	2564	4193.7	379.9	3714.6	176.9	115.8	40.6	118.5	359.6	421.3	364.2	471.7	482.6	413.9	417.3	332.2
84074	Pavas	N 09.58	W 84.08	997	2913.8	225.2	1698.1	8.8	7.0	18.2	69.7	238.1	239.1	165.7	223.0	301.3	278.7	131.4	17.1
84075	Coopenaranjo	N 10.07	W 84.23	1100	4260.1	343.3	2422.9	10.8	5.7	3.7	39.7	307.0	330.6	253.5	405.3	433.2	422.1	175.3	36.0
84097	Bajo Laguna	N 09.51	W 84.31	40	7793.5	312.5	2354.5	3.0	17.9	20.1	78.2	295.3	311.8	267.9	301.2	415.7	416.6	183.7	43.1
87006	Sixaola	N 09.30	W 82.37	11	8310.9	221.8	2468.0	119.5	148.9	151	269.6	220.5	201.8	239.1	252.6	137.5	167.0	255.0	305.5
87010	Amubri	N 09.31	W 82.57	70	6659.9	227.1	2494.4	145.8	121.2	129.6	171.9	214.7	359.3	225.3	232.5	236.2	248.5	167.8	241.6
88001	Puriscal	N 09.50	W 84.19	1002	4340.1	306.2	2541.1	27.7	25.0	60.3	128.9	350.4	302.4	250.8	309.5	387.4	441.2	182.0	75.5
88015	Playón	N 09.38	W 84.17	65	13428.8	390.3	3322.7	17.1	36.0	64.4	207.0	421.1	364.1	345.1	399	517.9	523.1	329.2	98.7
93003	Asunción	N 09.54	W 83.10	130	9024.0	347.7	3981.3	316.9	255.2	243.3	324.9	370.0	300.3	429.2	348.6	256.7	251.5	424.6	460.1
94005	Providencia	N 09.31	W 83.52	1490	3975.9	379.7	3153.2	29.4	48.8	84.6	184.3	457.8	423.9	288.8	361.7	477.1	511.8	240.9	44.1
98002	Palmar Sur	N 08.57	W 83.28	16	8925.3	430.6	3686.8	50.6	52.8	87.0	224.9	422.0	406.5	371.0	415.7	495.2	697.1	357.1	106.9
98006	Volcán de Buenos Aires	N 09.13	W 83.27	418	12542.0	412.6	3585.7	65.7	39.9	86.3	233.3	426.4	395.0	320.9	460.9	510.8	609.8	341.5	95.2
98007	San Vito de Java	N 08.50	W 82.59	890	5637.0	419.3	3804.1	87.8	70.1	95.8	213.6	471.5	398.0	320.7	405.0	477.2	646.9	455.6	161.9
98010	Cedral	N 09.22	W 83.33	1450	9912.4	426.6	4050.9	118.8	103.4	135.7	283.7	518.5	420.5	301.7	423.9	576.1	620.9	375.1	172.6
98011	Bolivia	N 09.11	W 83.38	950	7958.6	289.3	2297.4	25.6	9.0	34.0	103.2	303.1	242.5	204.8	319.3	355.3	424.4	218.8	57.4
98012	Potrero Grande	N 09.01	W 83.11	183	5591.1	257.0	2212.2	29.2	39.6	60.8	164.3	302.8	248.5	159.5	252.2	308.1	389.1	210.5	47.6
98013	Río Negro	N 08.53	W 82.52	955	7102.4	352.4	3124.0	50.0	54.2	87.9	236.1	414.1	352.1	218.8	318.4	400.0	548.0	341.3	103.1
98014	Helechales	N 09.04	W 83.04	1050	9747.4	363.7	3176.3	43.5	93.6	87.6	206.4	374.7	316.4	285.9	324.3	452.9	592.3	324.7	74.0
98018	Ujarrás	N 09.14	W 83.18	525	9161.9	401.1	3385.4	36.9	51.7	78.3	232.5	472.0	366.0	243.8	423.0	493.5	600.9	291.0	95.8
98022	La Pinera	N 09.08	W 83.20	350	7977.3	422.1	3635.8	62.4	39.2	102.2	229.0	491.8	411.5	348.9	448.1	529.7	602.0	287.5	83.5
98031	Buena Vista	N 09.30	W 83.40	1310	2861.1	325.9	2561.7	13.8	34.1	51.5	151.9	376.7	335.6	202.4	315.3	384.1	485.2	167.5	43.6
98032	Alto San Juan	N 09.20	W 83.44	1040	10693.7	333.5	2582.2	12.5	14.6	33.5	119.8	365.8	291.9	227.5	321.3	382.0	517.4	231.7	64.2
98033	San Jerónimo	N 09.21	W 83.30	1140	7939.8	412.1	3496.0	43.5	79.8	102.3	232.9	496.6	389.0	241.0	376.7	564.8	603.9	280.8	84.7
98034	Guácimo/Tablas	N 08.56	W 83.07	360	4513.7	275.6	2321.9	16.4	35.7	63.2	157.5	311.6	272.2	189.2	285.6	337.3	406.5	199.6	47.1
98035	Limoncito	N 08.51	W 83.00	820	4466.0	426.8	3925.2	67.5	98.9	113.1	262.2	479.2	416.1	309.3	438.1	476.2	658.1	453.8	152.7
98036	Maíz de Boruca	N 09.01	W 83.25	520	6477.8	242.3	1798.5	6.2	12.8	27.0	85.9	221.5	226.7	131.5	213.1	304.2	382.4	157.1	30.1
98043	Las Mellizas	N 08.52	W 82.47	1420	7434.3	375.5	3055.3	23.8	42.4	59.9	191.8	423.9	384.2	234.1	337.8	466.8	563.7	261.8	65.1

Note: R-factor = rainfall erosivity index (modified from Vahrson 1990); F index = modified Fournier index; MAP = mean annual precipitation.

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