

Figures 17 and 19

A.1

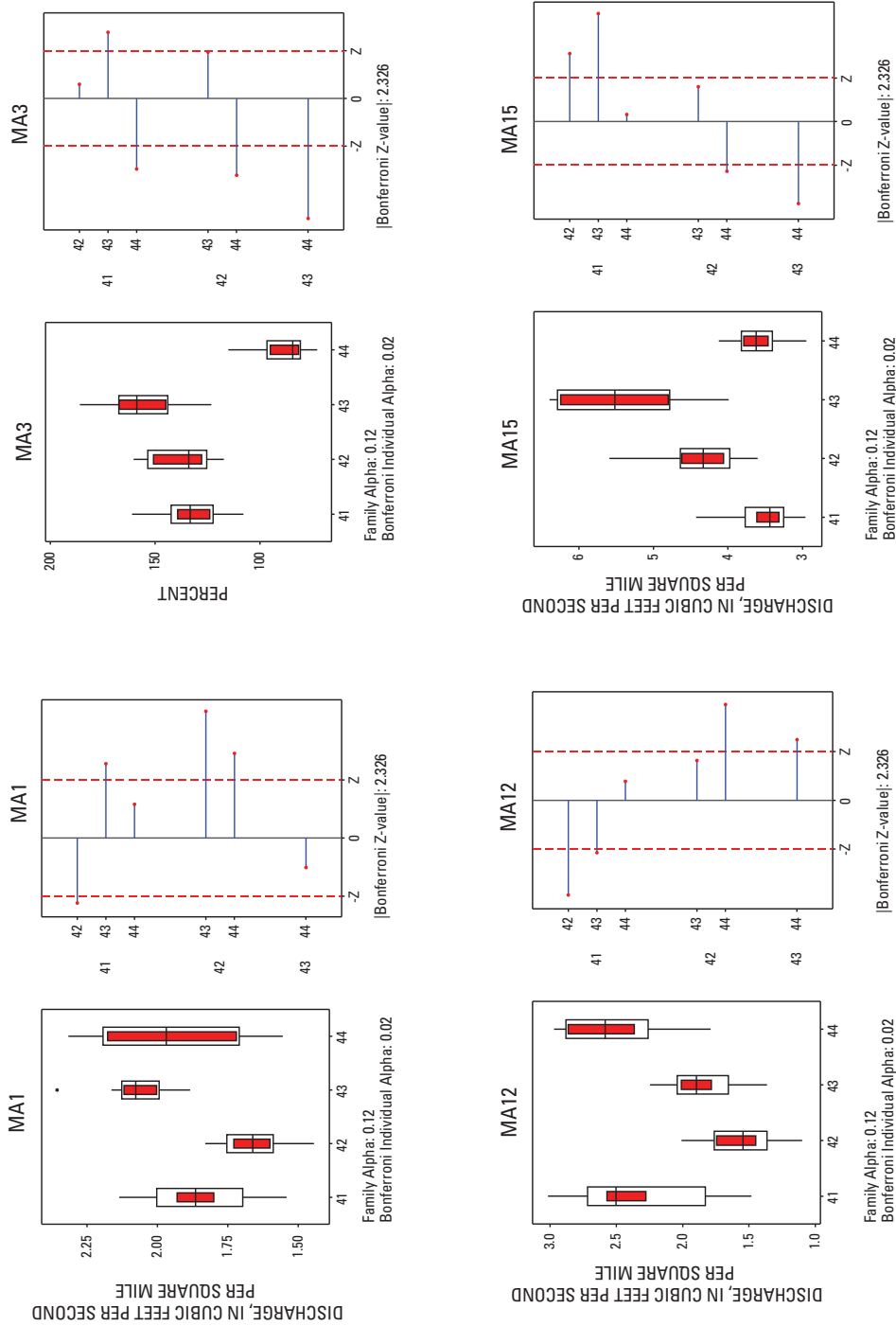


Figure 17. (A) 20 hydrologic indices and (B) 12 basin characteristics for streamflow-gaging stations in the four-cluster classification, southern New England. Sign confidence intervals (90 percent) are shown by the red bars inside the individual boxplots. Cluster names are SRO, southern runoff-dominated (41); NRO, northern runoff-dominated (42); HRO, high-gradient runoff-dominated (43); and BF, base-flow-dominated (44). The stations in the four clusters are shown in figure 16. Descriptions of the hydrologic-index codes are provided in table 7.

A.2

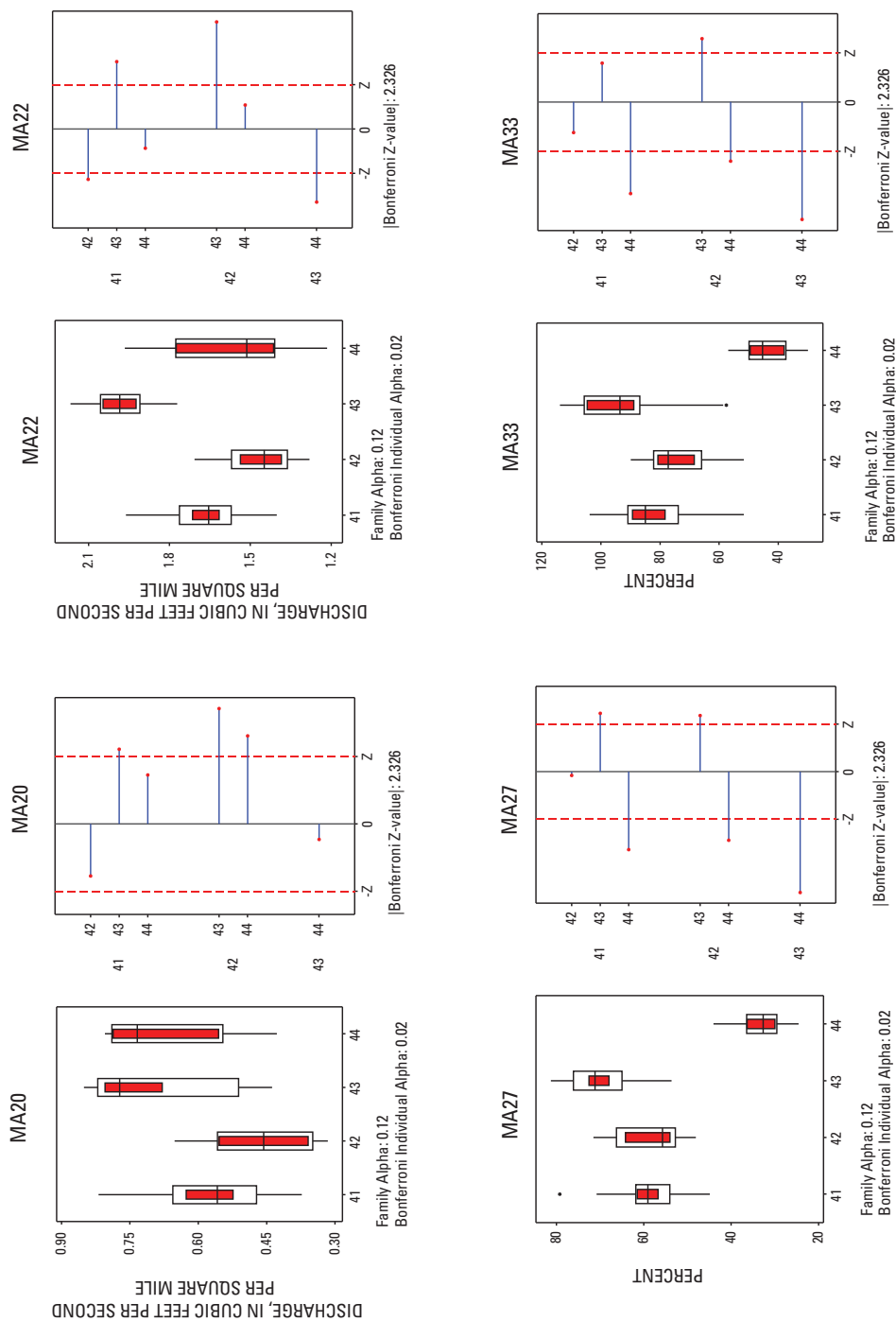


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A.3

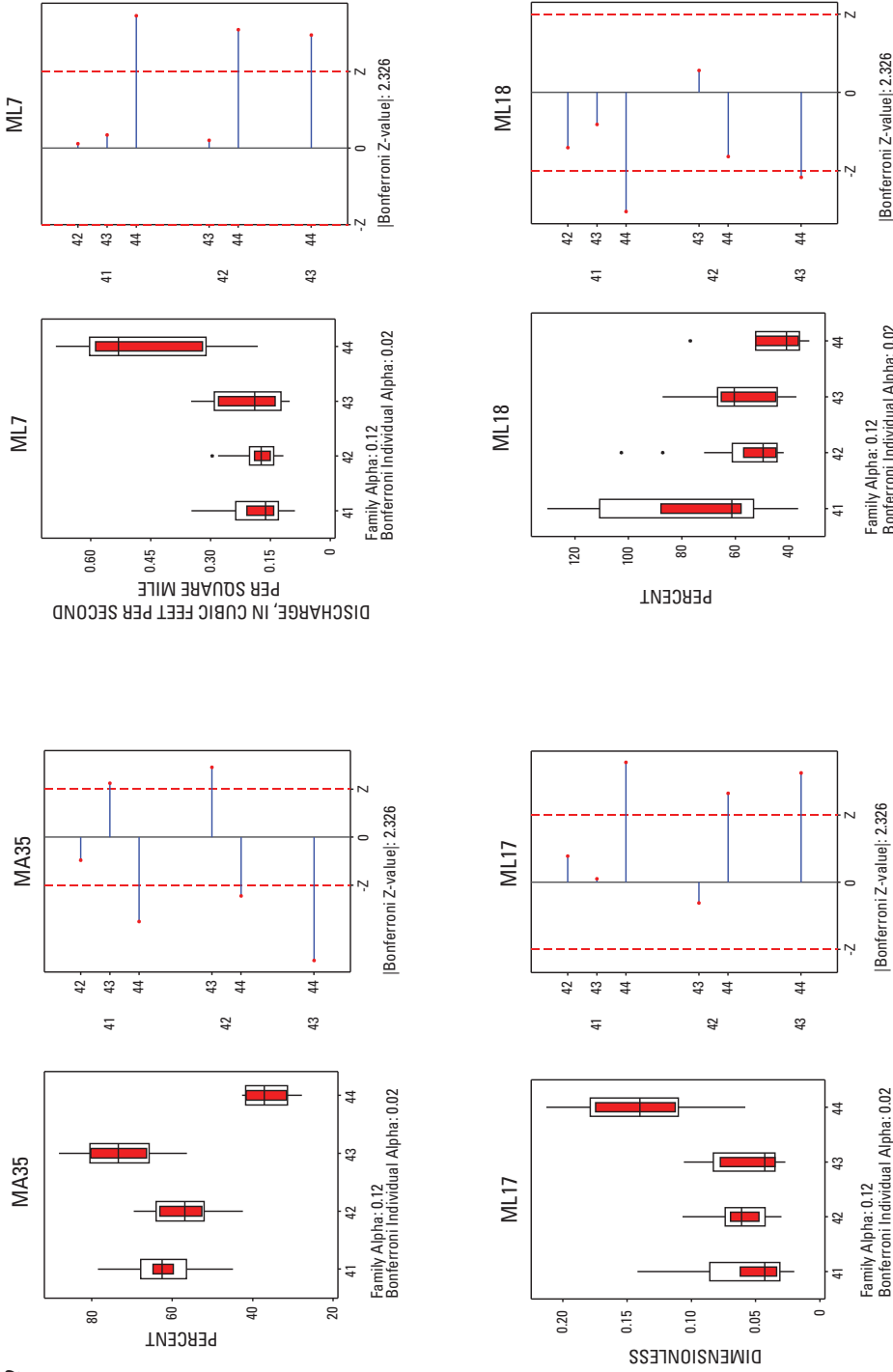


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A.4

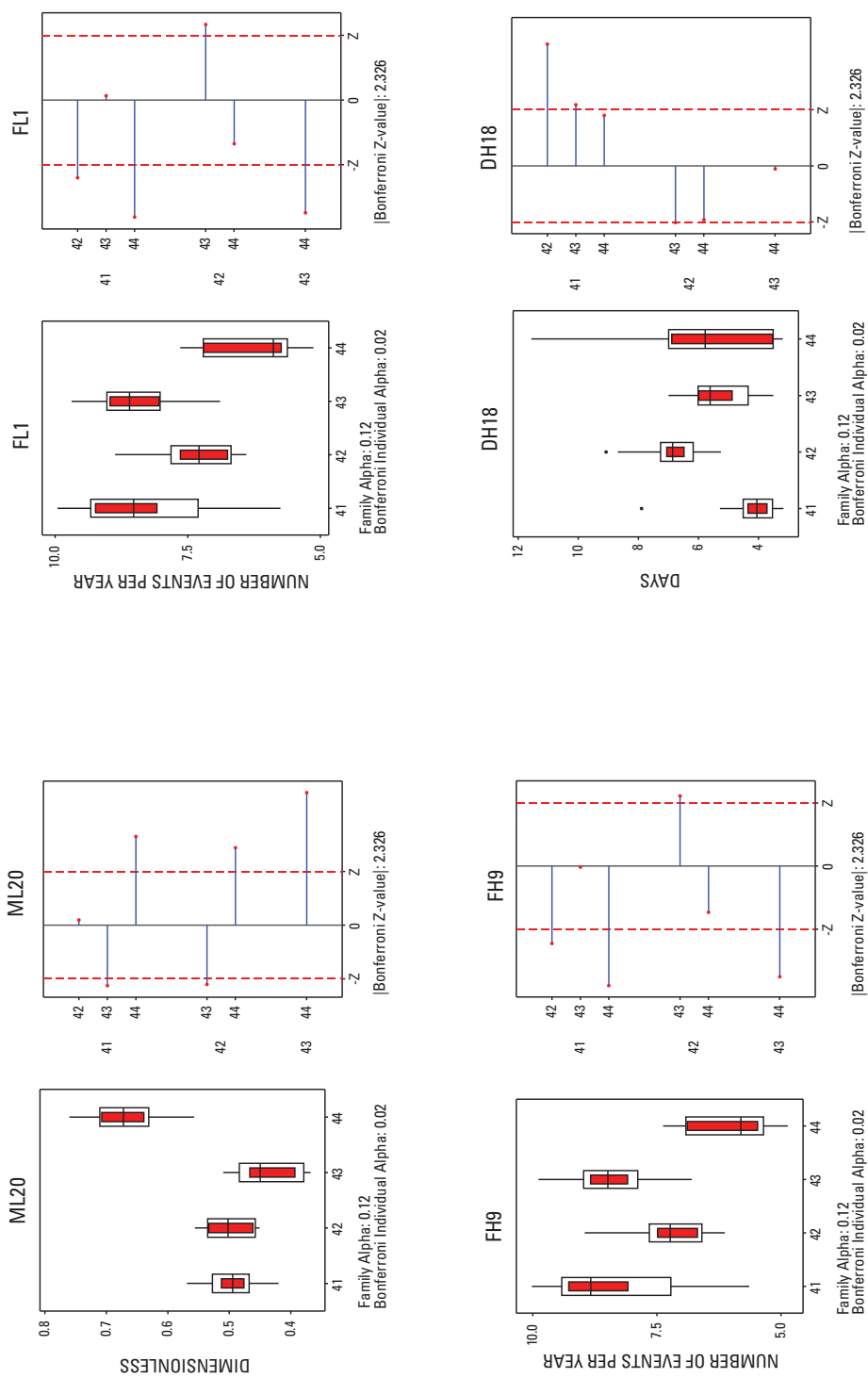


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A.5

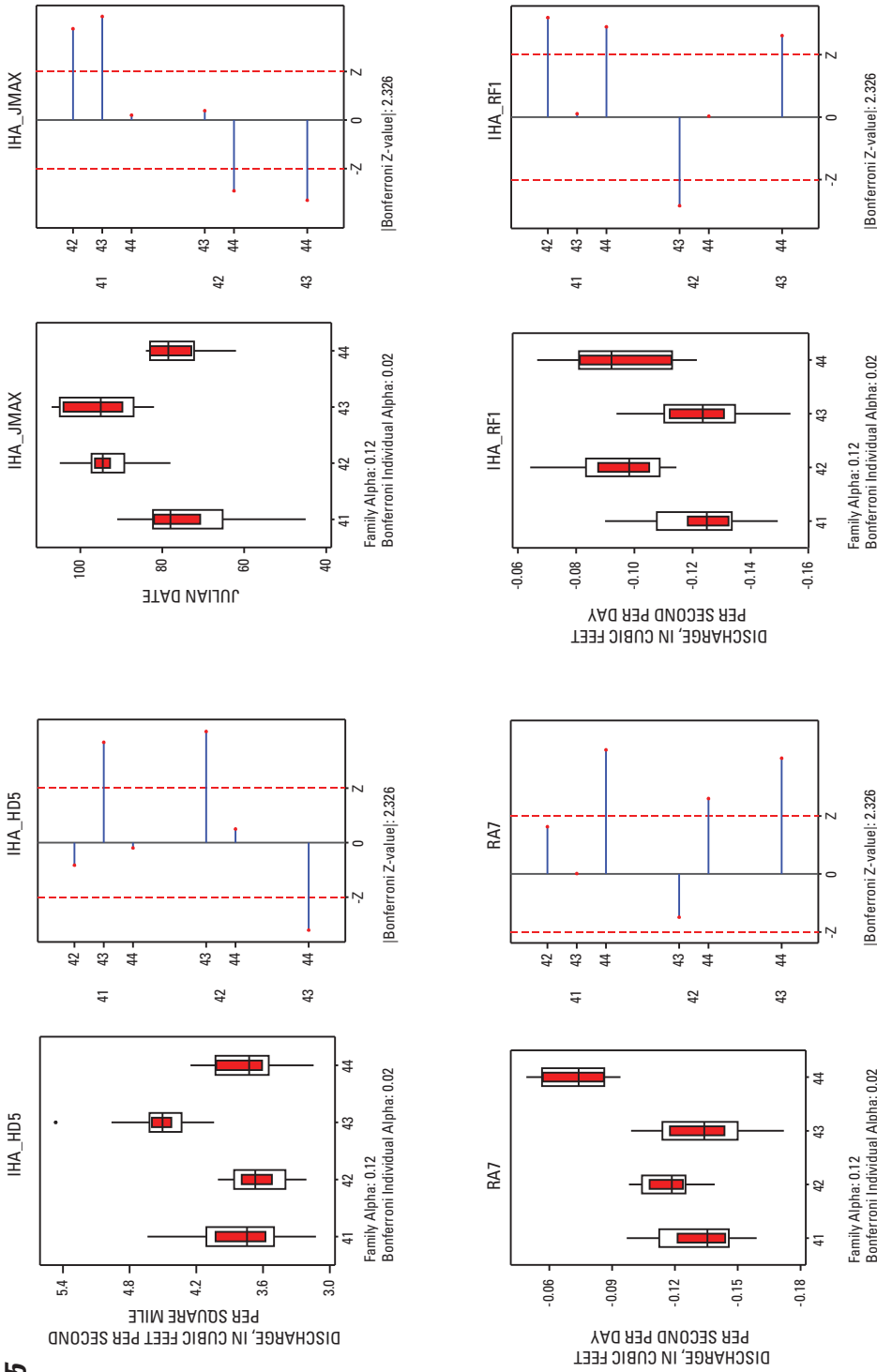


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B.1

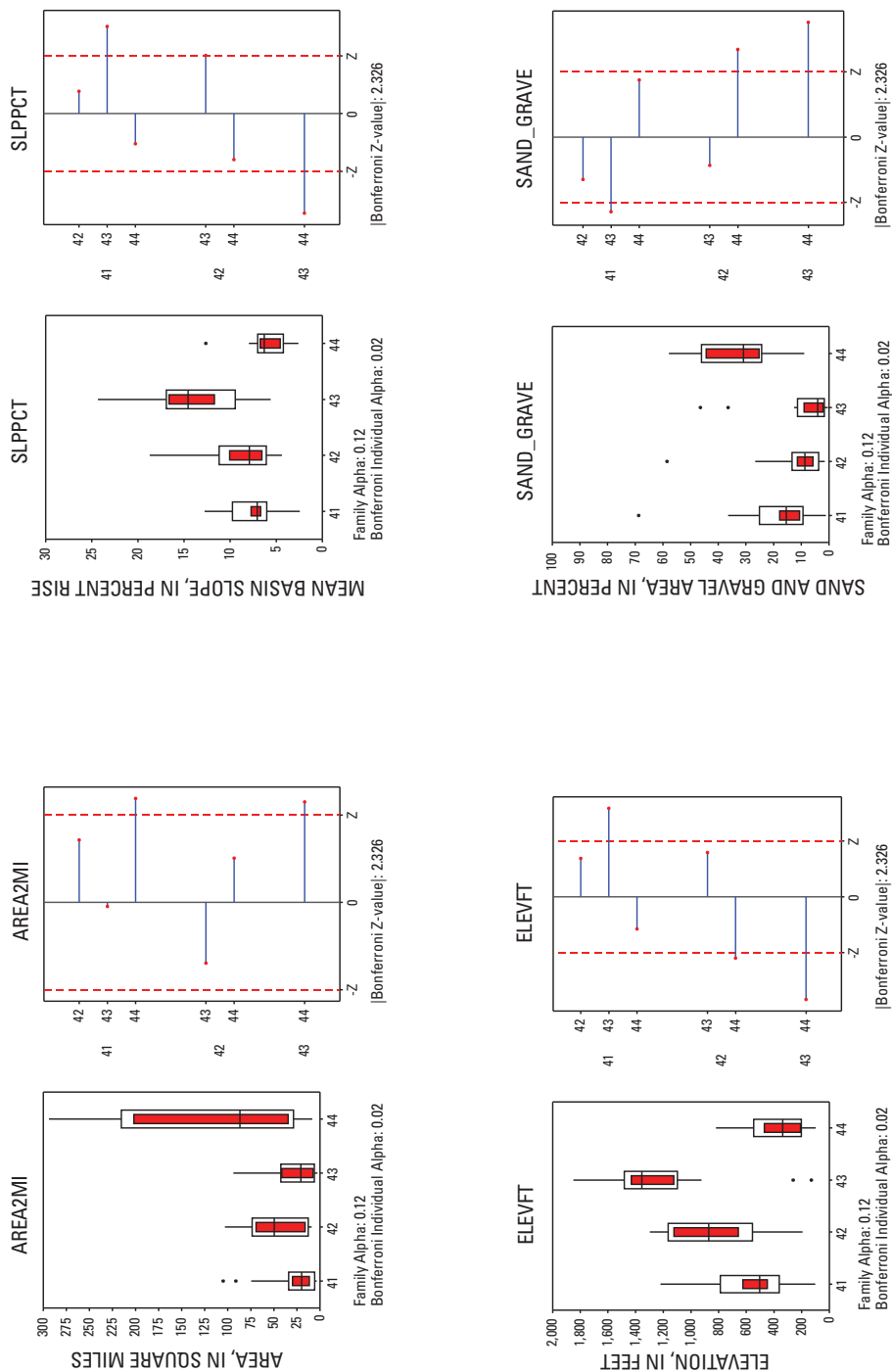


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B.2

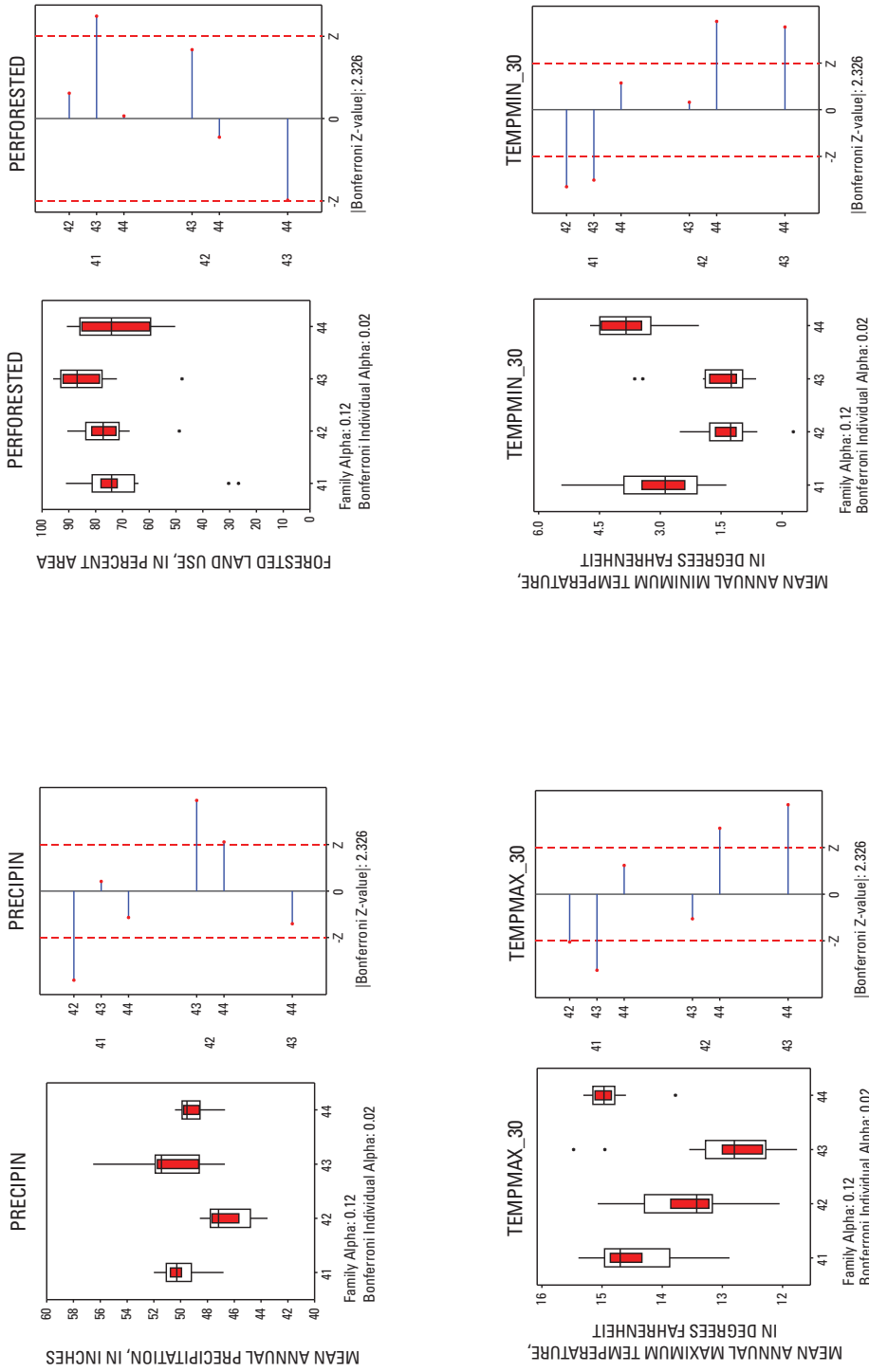


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B.3

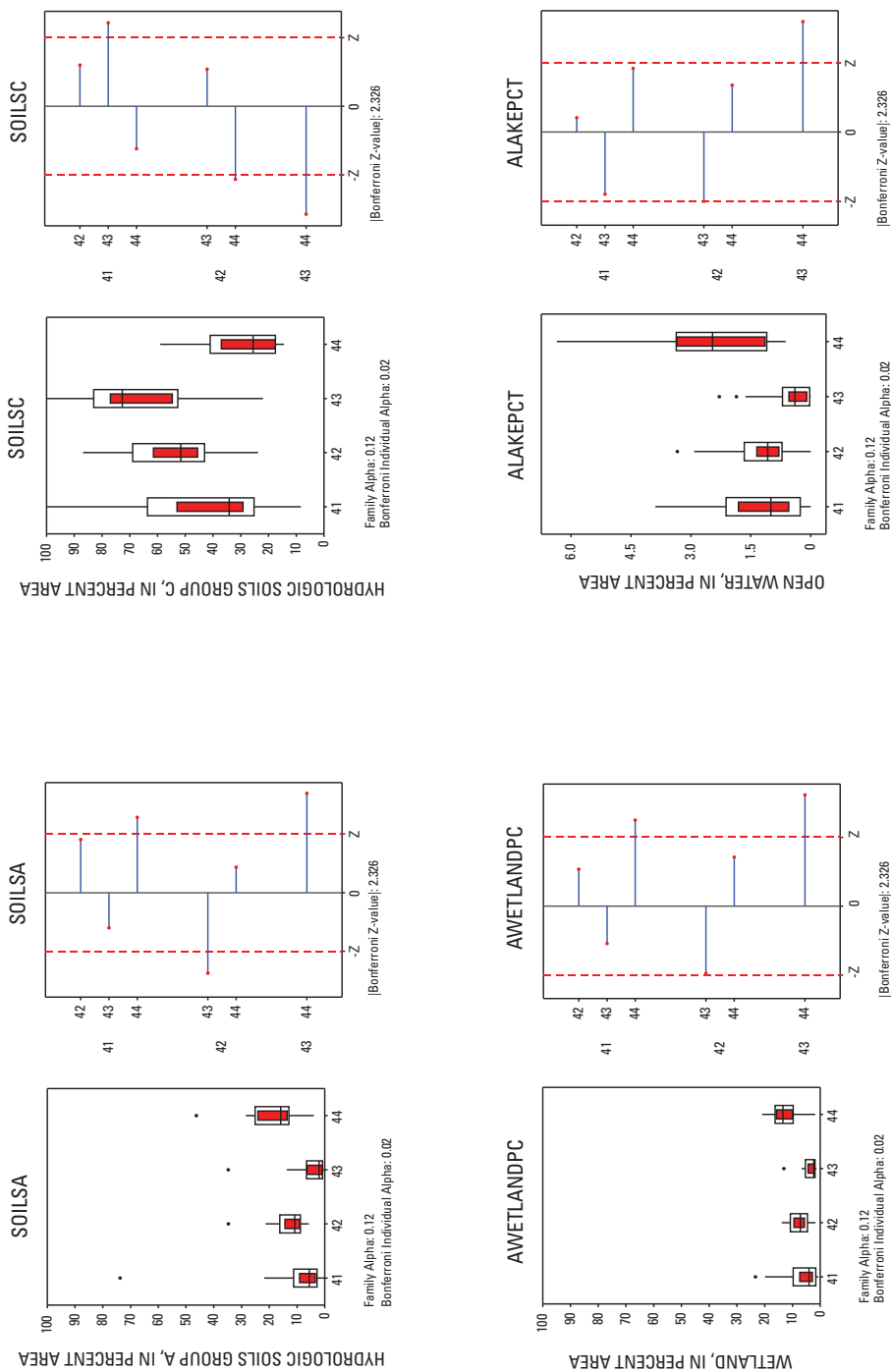


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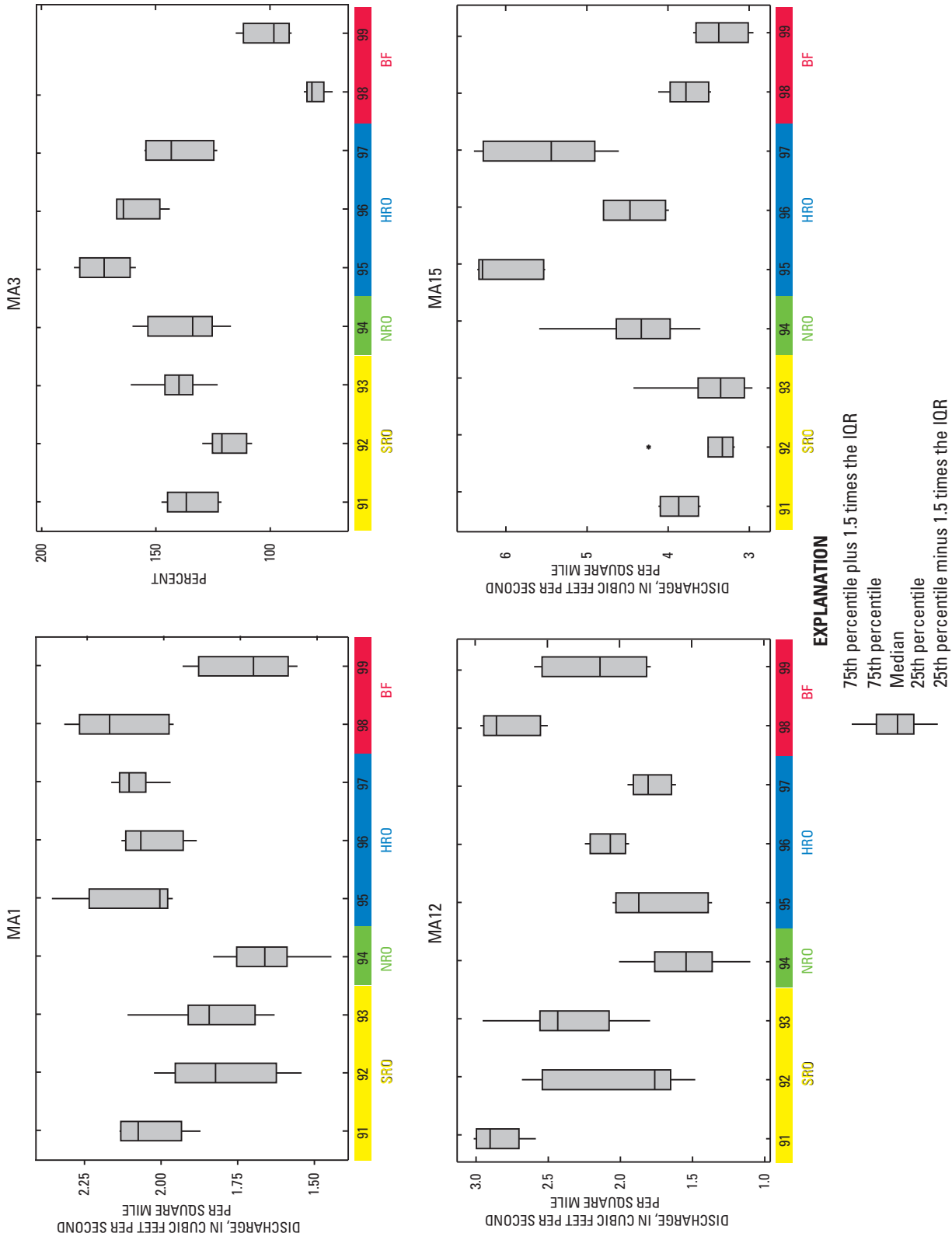


Figure 19. (A) 20 hydrologic indices and (B) 12 basin characteristics for streamflow-gaging stations in the nine-cluster classification, southern New England. IQR, interquartile range, is the difference between the 75th- and 25th-percentile values. The numbers represent the nine-cluster classification (see fig. 18). The colored bars behind the numbers represent the four-cluster classification (see fig. 16). Cluster names are SRO, southern runoff-dominated (41); NRO, northern runoff-dominated (42); HRO, high-gradient runoff-dominated (43); and BF, base-flow-dominated (44). The stations in the four clusters are shown in figure 16. Descriptions of the hydrologic-index codes are provided in table 7.

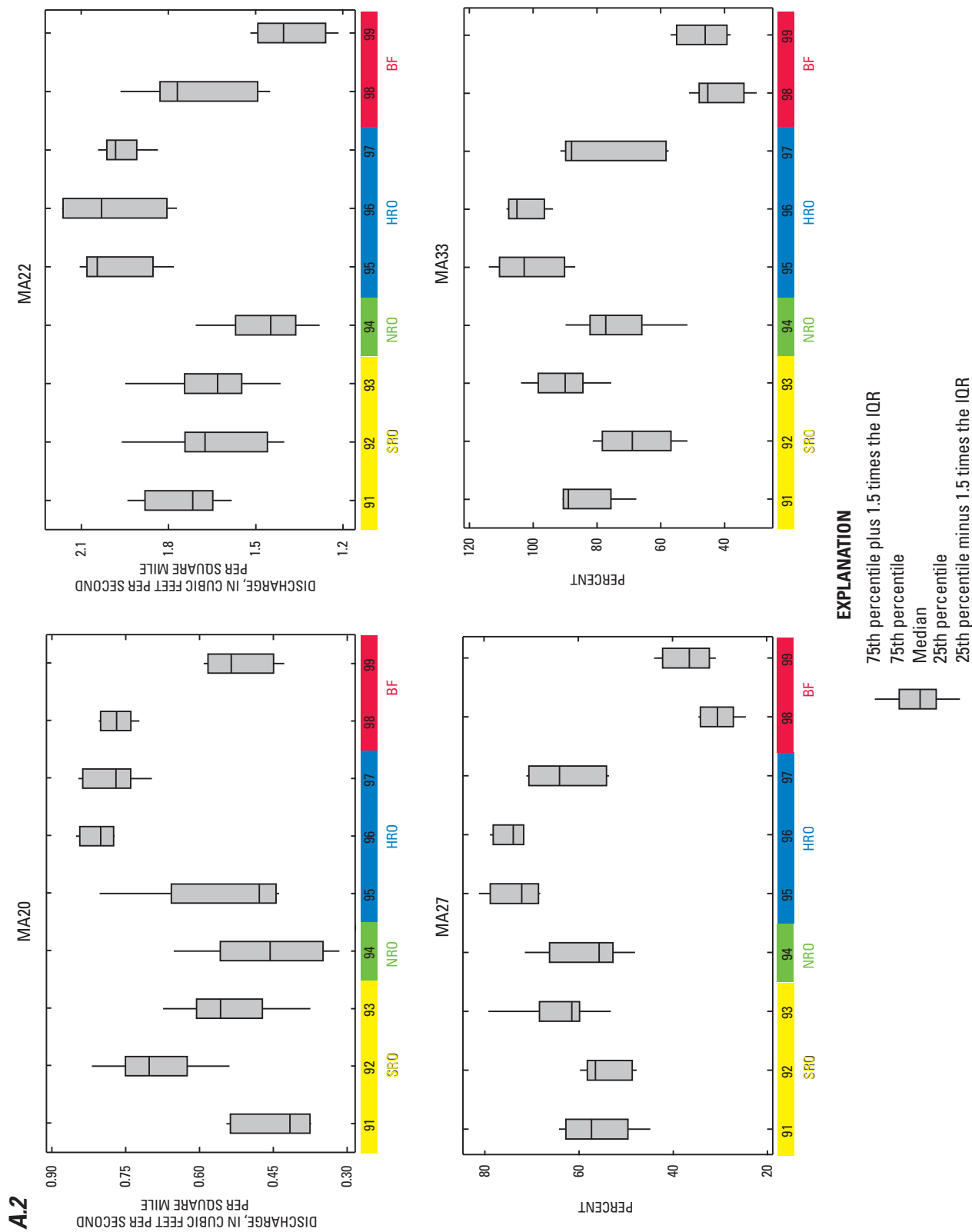


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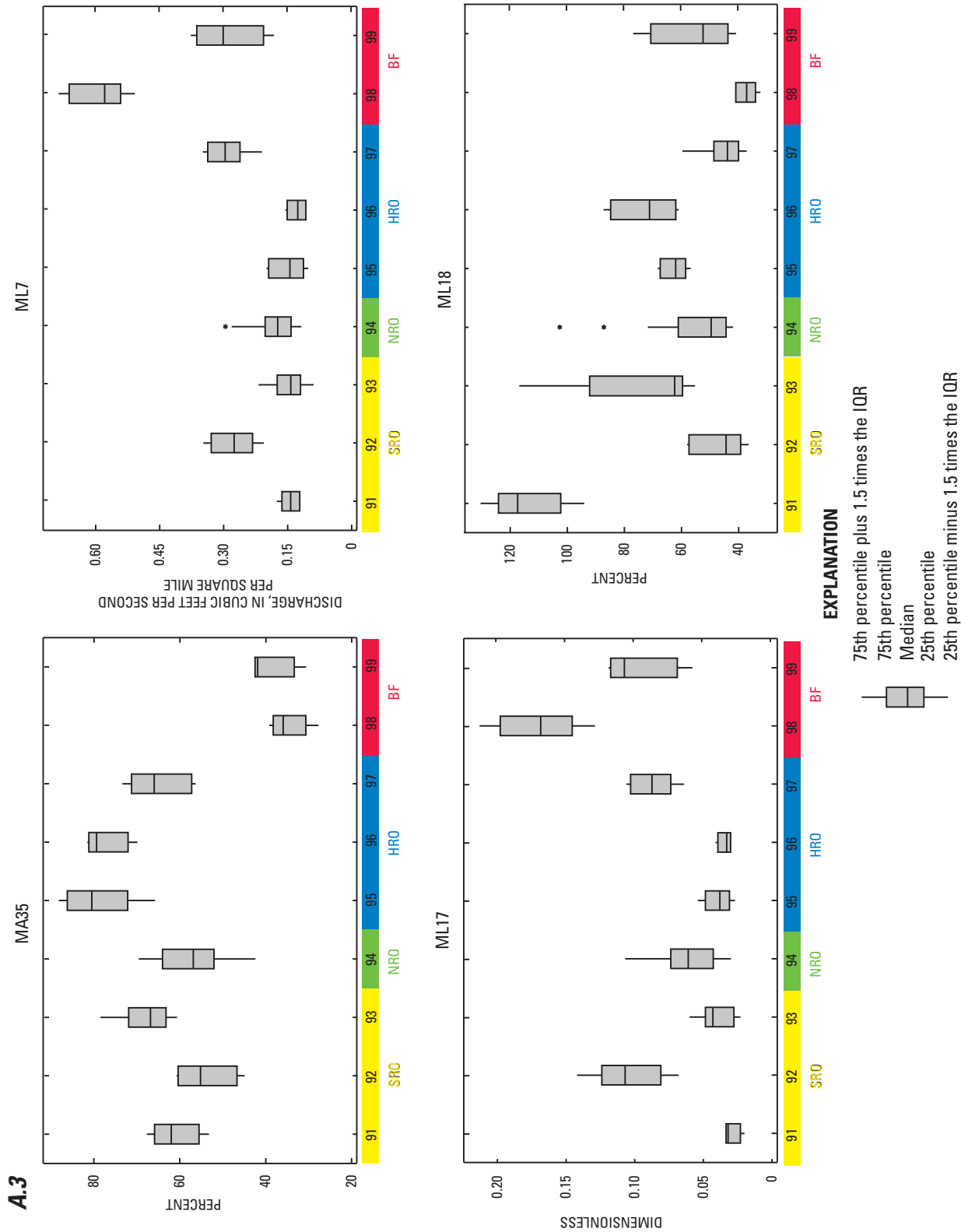


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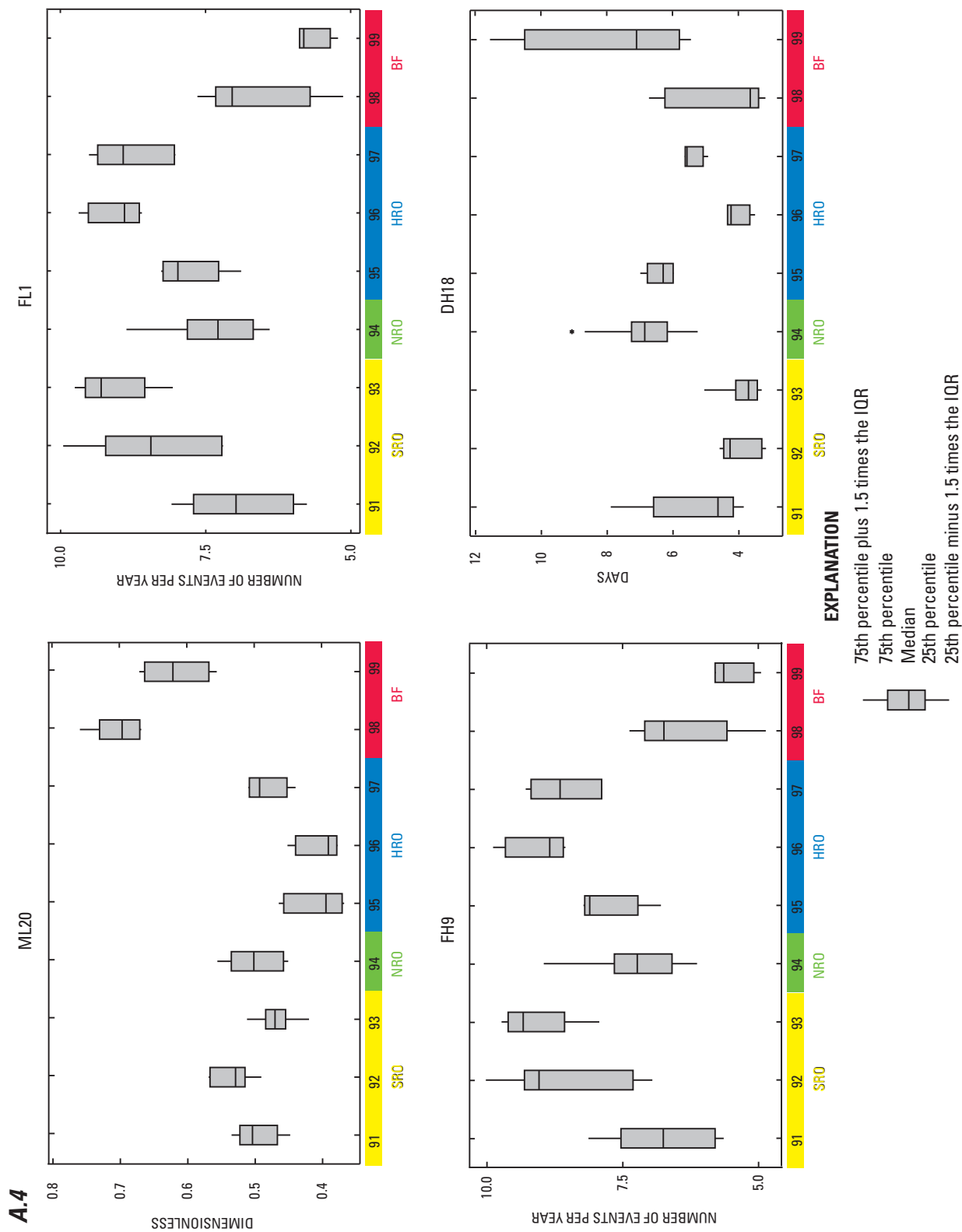


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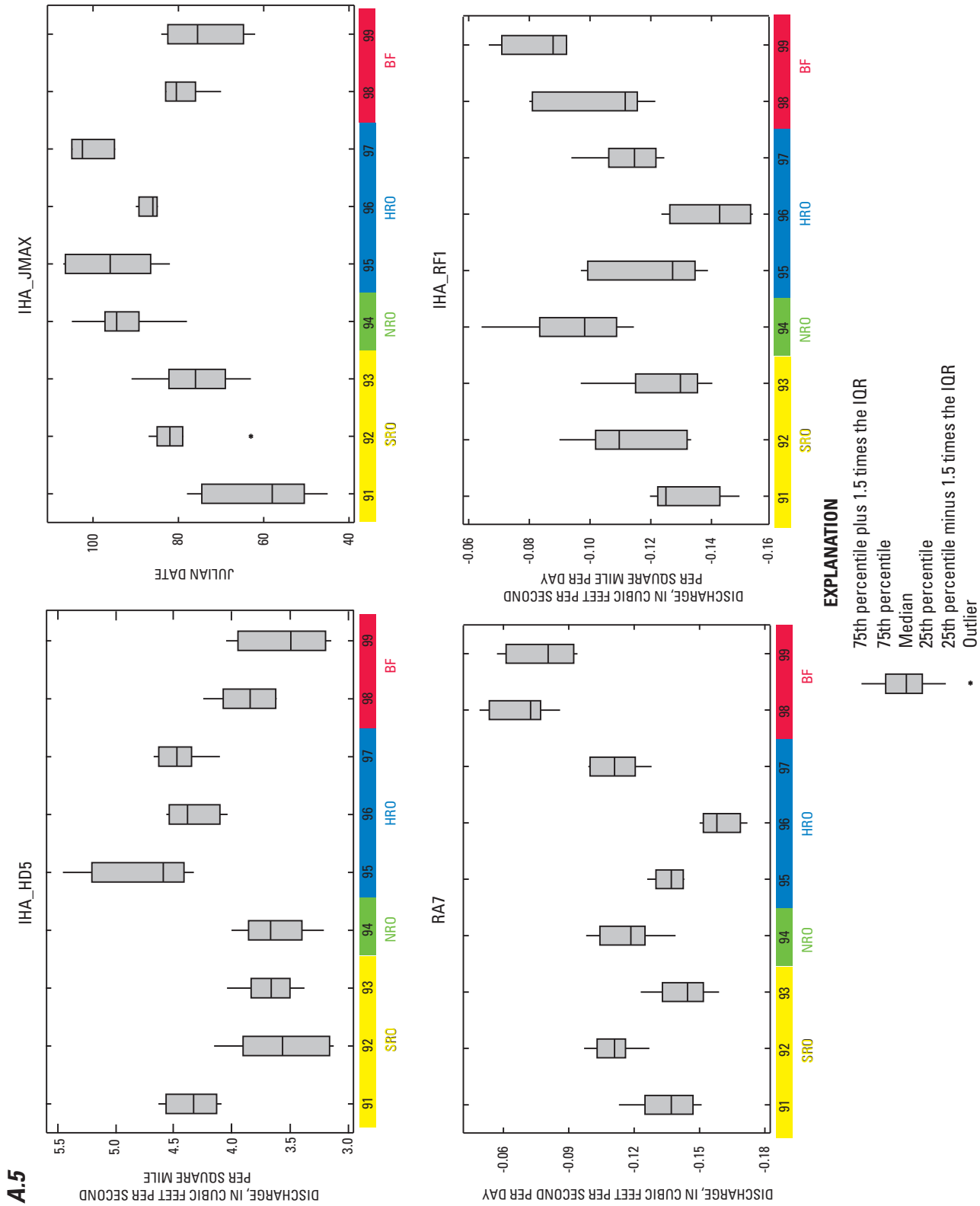


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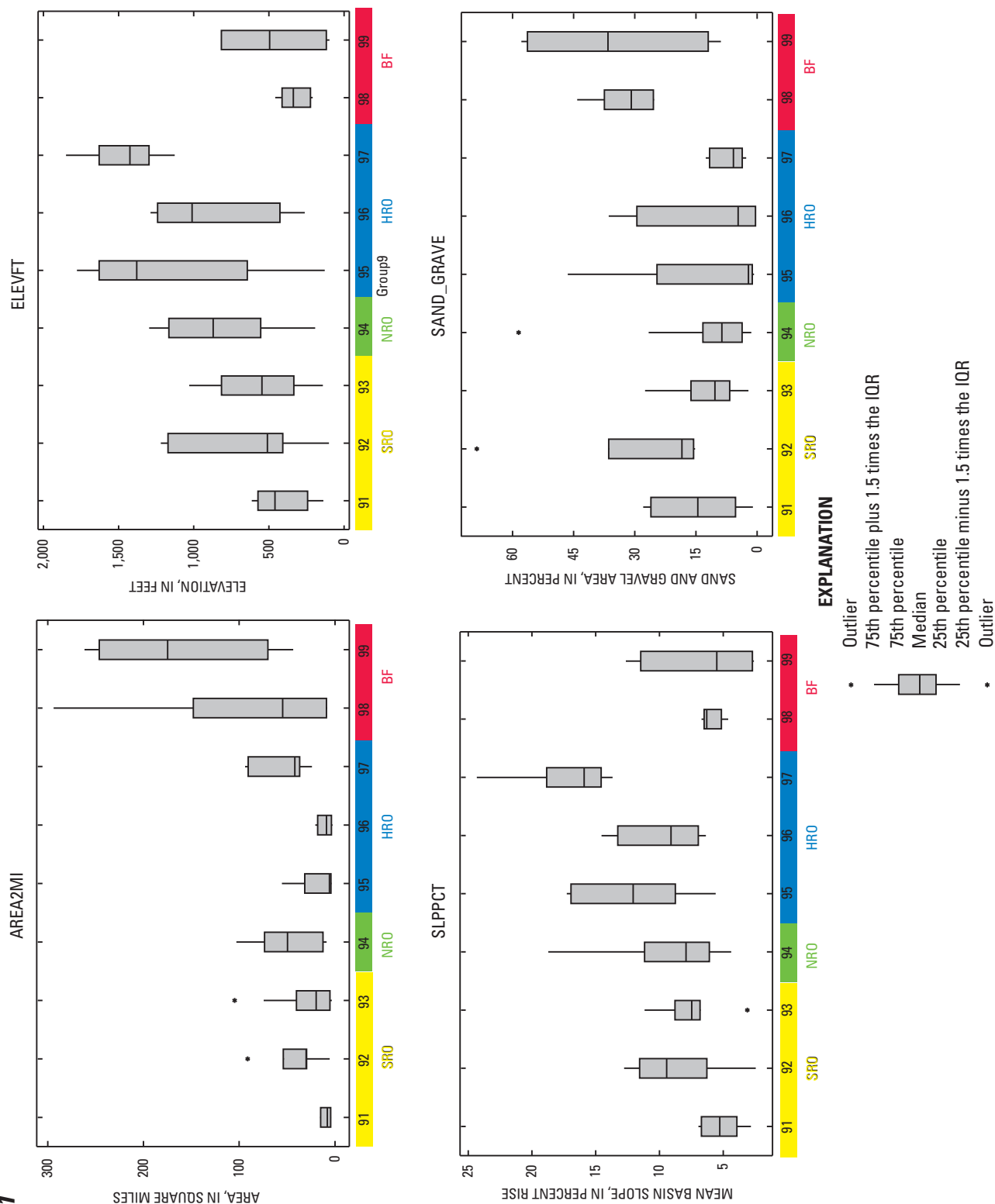


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B.2

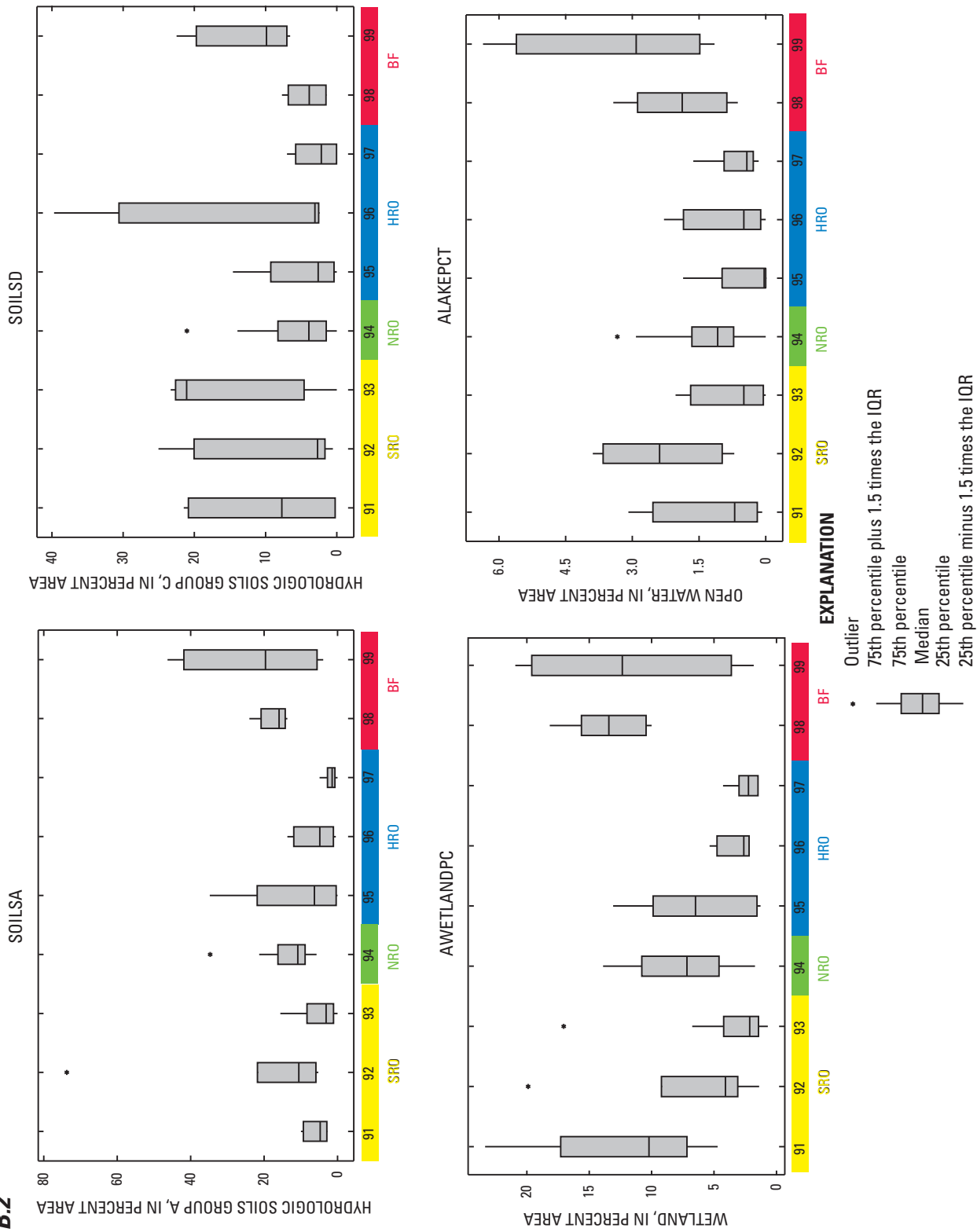


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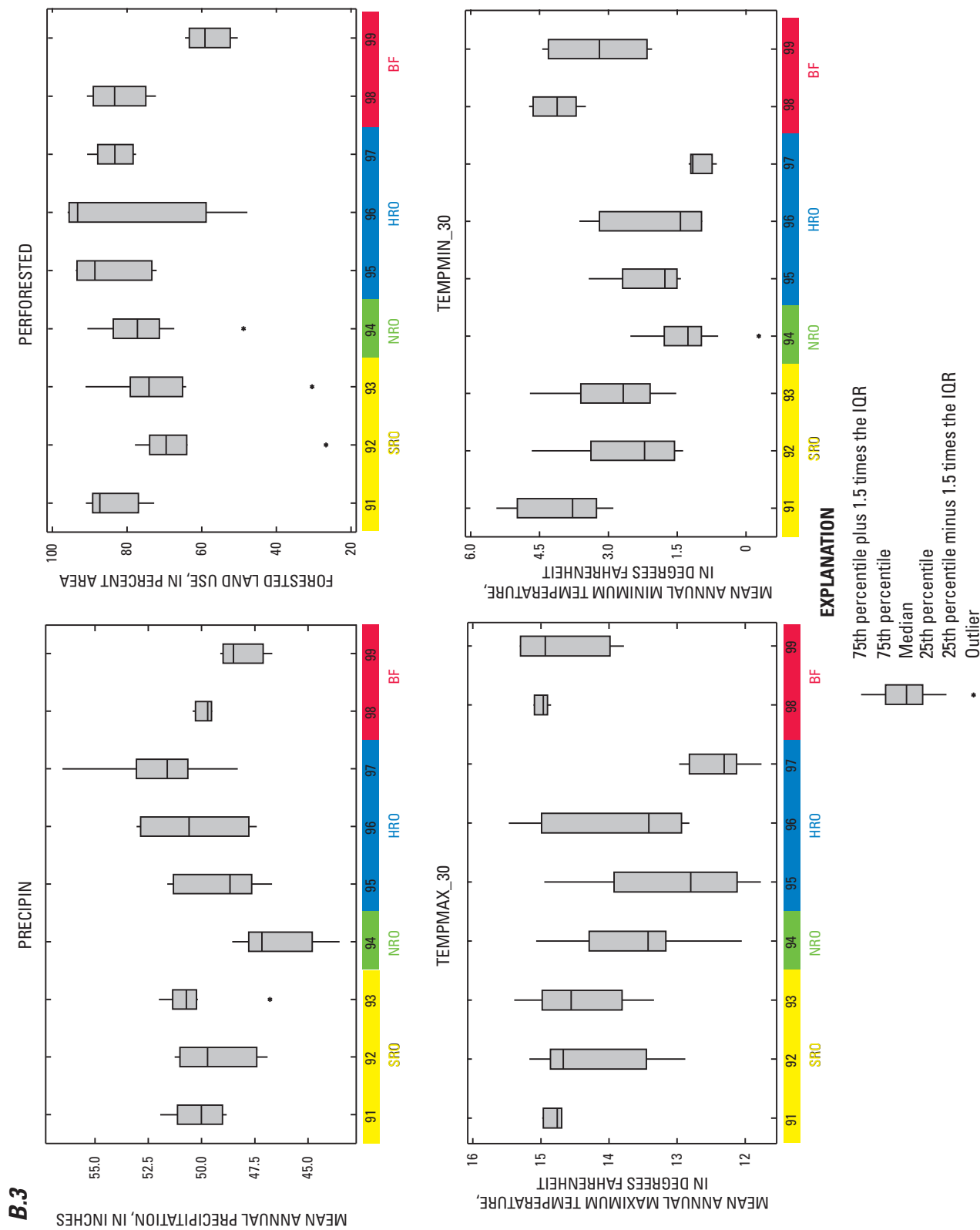


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Tables 2, 3, and 8

Table 2. Geographic-information-system sources of drainage-basin characteristics for streamflow-gaging stations in southern New England.

IGIS, Geographic Information System; USGS, U.S. Geological Survey; USGS NH-VT WSC, U.S. Geological Survey New Hampshire-Vermont Water Science Center; USGS MA-RI WSC, U.S. Geological Survey Massachusetts-Rhode Island Water Science Center; NED, USGS National Elevation Dataset; EROS, Earth Resources Observation Systems; MassGIS, Massachusetts Executive Office of Environmental Affairs, Office of Geographic and Environmental Information; RIGIS, Rhode Island Geographic Information System; MAGIC, University of Connecticut, Map and Geographic Information Center; NRCS, National Resources Conservation Service; SSURGO, NRCS Soil Survey Geographic Database; --, not applicable; °F, degrees Fahrenheit; NHD, USGS National Hydrography Dataset; PRISM, Parameter-Elevation Regressions on Independent Slopes Model; NLCD, USGS National Land Cover Dataset; NAWQA, USGS National Water-Quality Assessment Program; VCGI, Vermont Center for Geographic Information; GRANIT, New Hampshire statewide geographic information system; CSCIC, NYS Office of Cyber Security and Critical Infrastructure Coordination; STATSGO, NRCS State Soil Geographic Database. Surficial geologic information for NH and VT were obtained from the USGS NH-VT WSC (R.H. Flynn, U.S. Geological Survey, written commun., 2005).]

Characteristic	Code names	Units	Data scale or resolution	Data source	Comment	Source of GIS data
Basin characteristics						
Drainage area	AREA2MI	mi ²	1:24,000	MA StreamStats, CT StreamStats, RI StreamStats, and VT StreamStats, USGS NH-VT WSC	Basin delineated using a combination of elevations from NED and existing 1:24,000 scale boundaries.	USGS MA-RI WSC
Mean basin elevation	ELEVFT	Feet	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Maximum basin elevation	ELEVMAXFT	Feet	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Minimum basin elevation	ELEVMINFT	Feet	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Percent of basin area at elevation greater than 500 feet	ELEV500	Percent	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Outlet elevation	OUTLETELEV	Feet	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Mean basin slope	SLPPCT	Percent rise	1/3 arc-second	NED, September 2006	Some areas are resampled 30 m NED.	EROS Data Center, USGS Sioux Falls, South Dakota
Percent sand and gravel	SAND_GRAVE	Percent	CT: 1:24,000 MA and RI: 1:250,000 and some 1:24,000 VT/NH/NY: 1:24,000 SSURGO	MassGIS, RIGIS, MAGIC, USGS NH-VT WSC, NRCS	Interpretation of the VT, NH, and NY data was enhanced using SSURGO soils data.	USGS MA-RI WSC
Ratio of sand and gravel in contact with streams	DRIFT_STRE	Percent per unit stream length	--	NHD (for stream reaches) MassGIS, RIGIS, MAGIC, USGS NH-VT WSC, NRCS (for drift)	GIS intersection of NHD streams and stratified drift.	USGS MA-RI WSC
Total stream length	SUMSTREAMS	Miles	1:24,000	NHD, September 2006	Includes both perennial and intermittent streams.	Rocky Mountain Mapping Center, USGS, Denver, Colorado
X location of station	OUTLETX	m	--	ArcHydro data model	Massachusetts State Plane coordinates	USGS MA-RI WSC
Y location of station	OUTLETY	m	--	ArcHydro data model	Massachusetts State Plane coordinates	USGS MA-RI WSC
X centroid of the basin	CENTROIDX	m	--	ArcHydro data model	Massachusetts State Plane coordinates	USGS MA-RI WSC
Y centroid of the basin	CENTROIDY	m	--	ArcHydro data model	Massachusetts State Plane coordinates	USGS MA-RI WSC

Table 2. Geographic-information-system sources of drainage-basin characteristics for streamflow-gaging stations in southern New England.—Continued

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Characteristic	Code names	Units	Data scale or resolution	Data source	Comment	Source of GIS data
Climate characteristics						
Mean annual precipitation	PRECIPIN	Inches	800-meter grid	PRISM	30-year averages (1971–2000)	http://prism.oregonstate.edu/
Mean annual maximum temperature	TEMPMAX_30	°F	800-meter grid	PRISM	30-year averages (1971–2000)	http://prism.oregonstate.edu/
Mean annual minimum temperature	TEMPMIN_30	°F	800-meter grid	PRISM	30-year averages (1971–2000)	http://prism.oregonstate.edu/
Land-use characteristics						
Major land-use categories ¹	--	--	30-meter grid	NLCD	Custom NLCD data set from USGS NAWQA GIS internal webpage.	USGS MA-RI WSC
Percent wetlands	AWETLANDPC	Percent	Variable sources	MA: 1:5,000 scale wetland dataset VT/NH: National Wetland Inventory data CT/NY: CT satellite imagery RI: 1:5,000 scale wetlands dataset	Variable sources and scales for each state.	MassGIS VCGI/GRANIT MAGIC/CSIC RIGIS
Percent open water	ALAKEPCT	Percent	Variable sources	MA: 1:5,000 scale wetland dataset VT/NH: National Wetland Inventory data CT/NY: CT satellite imagery RI: 1:5,000 scale wetlands dataset	Represents, lakes, ponds, reservoirs and wide rivers (not including wetlands). The VT and NH data are more coarse than the others.	MassGIS VCGI/GRANIT MAGIC/CSIC RIGIS
Hydrologic soils group A	SOILSA	Percent area	1:24,000 scale	SSURGO	STATSGO, 1:250,000 scale data were used in several locations where SSURGO was unavailable.	http://mesoil.com/hydrologic.html
Hydrologic soils group B	SOILSB	Percent area	1:24,000 scale	SSURGO	STATSGO, 1:250,000 scale data were used in several locations where SSURGO was unavailable.	http://mesoil.com/hydrologic.html
Hydrologic soils group C	SOILSC	Percent area	1:24,000 scale	SSURGO	STATSGO, 1:250,000 scale data were used in several locations where SSURGO was unavailable.	http://mesoil.com/hydrologic.html
Hydrologic soils group D	SOILSD	Percent area	1:24,000 scale	SSURGO	STATSGO, 1:250,000 scale data were used in several locations where SSURGO was unavailable.	http://mesoil.com/hydrologic.html

¹ Major land-use categories include PerForested, percent forested.

Table 3. Basin, climate, and land-use characteristics for contributing areas to 61 streamflow-gaging stations in southern New England.[USGS, U.S. Geological Survey; mi², square mile; ft, feet; in, inches; °F, degrees Fahrenheit; m, Massachusetts State Plane meters. Code names and descriptions

USGS station number	Station name	Code	Basin characteristics			
			AREA2MI (mi ²)	ELEVFT (ft)	ELEV MAXFT (ft)	ELEV MINFT (ft)
01073000	Oyster River near Durham, NH	OYST	12.21	192.7	383.08	69.06
01082000	Contoocook River at Peterborough, NH	CONT	66.98	1,159	3,113.34	721.62
01084500	Beard Brook near Hillsboro, NH	BEAR	55.36	1,159.04	2,448.83	602.65
01085800	West Branch Warner River near Bradford, NH	WBWA	5.9	1,481.24	2,483.74	944.04
01089000	Soucook River near Concord, NH	SOU1	77.84	682.02	1,489.8	300.01
01091000	South Branch Piscataquog River near Goffstown, NH	SBPI	102.95	762.37	2,008.89	318.32
01093800	Stony Brook tributary near Temple, NH	STON	3.62	1,379.41	2,266.35	912.7
01095220	Stillwater River near Sterling, MA	STIL	28.88	768.91	1,996.16	402.44
01096000	Squannacook River near West Groton, MA	SQUA	64.1	623.58	1,492.46	249.25
010965852	Beaver Brook at North Pelham, NH	BBNH	47.79	347.8	635.13	149.35
01097300	Nashoba Brook near Acton, MA	NASH	12.75	232.13	460.91	152.04
01100700	East Meadow River near Haverhill, MA	EMEA	4.88	128.86	309.98	38.97
01105600	Old Swamp River near South Weymouth, MA	OLDS	4.38	141.54	198.92	73.72
01105730	Indian Head River at Hanover, MA	IHEA	30.09	100.44	195.67	7.31
01106000	Adamsville Brook at Adamsville, RI	ADAM	8.09	138.01	295.42	23.19
01108000	Taunton River near Bridgewater, MA	TAUN	261.49	97.64	392.27	2.29
01109000	Wading River near Norton, MA	WADI	43.58	179.87	435.48	61.74
01111300	Nipmuc River near Harrisville, RI	NIPM	15.63	531.04	771.29	345.75
01111500	Branch River at Forestdale, RI	BRAN	91.21	496.43	817.95	192.98
01115098	Peepetoad Brook at Elmdale Road near Westerly, RI	PEEP	4.95	459.58	702.62	312.41
01115187	Nonaganset River at South Foster, RI	PONA	14.38	614.19	839.77	351.82
01115630	Nooseneck River at Nooseneck, RI	NOOS	8.19	457.88	624.5	293.12
01117468	Beaver River near Usquepaug, RI	BRR1	9.18	328.1	609.44	113.35
01117500	Pawcatuck River at Wood River Junction, RI	PAWR	99.34	208.56	612.23	41.93
01117800	Wood River near Arcadia, RI	WOOA	35.17	397.26	682.38	126.48
01118000	Wood River at Hope Valley, RI	WOOH	74.17	345.65	682.38	56.99
01118300	Pendleton Hill Brook near Clarks Falls, CT	PEND	4.01	347.54	545.95	162.17
01118500	Pawtucket River at Westerly, RI	PAWE	293.91	229.41	682.38	1.44
01120000	Hop Brook near Columbia, CT	HOPC	74.53	606.71	1,000.21	262.61
01121000	Mount Hope River near Warrenville, CT	MOUN	27.12	652.25	1,256.29	321.27
01123000	Little River near Hanover, CT	LITT	29.61	509.74	793.41	235.34
01126600	Blackwell Brook near Brooklyn, CT	BLAC	16.96	476.8	771.62	141.21
01154000	Saxtons River at Saxtons River, VT	SAXT	72.18	1,296.29	2,875.43	399.03
01155000	Cold River at Drewsville, NH	COLD	83.49	1,244.83	2,158.89	374.82
01161500	Tarbell Brook near Winchendon, MA	TARB	18.51	1,038.9	1,281.03	879.27
01162500	Priest Brook near Winchendon, MA	PRIE	19.21	1,096.36	1,871.35	849.28
01165500	Moss Brook at Wendell Depot, MA	MOSS	12.13	868.78	1,615.82	519.08
01169000	North River at Shattuckville, MA	NORT	89.66	1,424.68	2,322.12	432.69
01169900	South River near Conway, MA	SOUT	24.14	1,126.6	1,819.18	475.44
01170100	Green River near Colrain, MA	GREC	41.31	1,354.12	2,409.76	464.62
01171500	Mill River at Northampton, MA	MILL	53.98	842.65	1,692.01	135.11
01171800	Bassett Brook near North Hampton, MA	BASS	5.56	407.62	839.67	205.55
01174000	Hop Brook near New Salem, MA	HOPM	3.39	1,030.48	1,302.91	730.35
01174565	West Branch Swift River near Shutesbury, MA	WBSW	12.5	953.97	1,296.84	549.99
01174900	Cadwell Creek near Belchertown, MA	CADW	2.55	923.86	1,155.53	545.43
01175670	Sevenmile River near Spencer, MA	SEVE	8.8	873	1,071.64	650.91
01176000	Quaboag River at West Brimfield, MA	QUAB	149.47	810.06	1,227.12	384.82
01181000	West Branch Westfield at Huntington, MA	WBWE	93.97	1,423.83	2,235.9	393.12
01184100	Stony Brook near West Suffield, CT	STCT	10.53	260.9	679.88	157.75
01187300	Hubbard River near West Hartland, CT	HUBB	20.67	1,287.37	1,643.35	602.55
01187400	Valley Brook near West Hartland, CT	VALL	7.4	1,098.68	1,480.48	543.53
01193500	Salmon River near East Hampton, CT	SALR	104.74	485.79	897.41	61.64
01194500	East Branch Eightmile River near North Lyme, CT	EBEM	22.42	366.35	645.83	71.16
01195100	Indian River near Clinton, CT	INDI	5.62	235.74	490.54	46.91
01198000	Green River near Great Barrington, MA	GRGB	51.33	1,183.48	2,057.81	691.2
01198500	Blackberry River at Canaan, CT	BLAB	45.46	1,219.03	1,946.91	653.08
01199050	Salmon Creek at Lime Rock, CT	SALC	29.57	1,170.49	2,445.13	618
01200000	Ten Mile River, CT	TENM	200.01	818.49	2,302.44	301.75
01331400	Dry Brook near Adams, MA	DRYB	7.68	1,777.31	2,250.5	1,156.19
01332000	North Branch Hoosic River at North Adams, MA	NBHO	41.14	1,849.91	3,077.38	834.32
01333000	Green River at Williamstown, MA	GREW	42.44	1,554.97	3,476.15	614.59

for basin, climate, and land-use characteristics are given in table 2.]

Basin characteristics					
ELEV500 (percent)	OUTLETELEV (ft)	SLPPCT (percent rise)	SAND_GRAVE (percent)	DRIFT_STRE (percent/stream length)	SUM STREAMS (miles)
0	75.82	4.37	2.87	1.3	26.88
100	721.91	8.27	3.46	1.86	124.6
100	617.22	12.06	2.14	0.89	132.51
100	961.39	17.27	1.62	0.62	15.39
78.08	304.8	7.61	3.8	2.38	124.2
90.18	318.32	9.71	7.84	4.17	193.38
100	925.11	16.59	0.79	1.29	2.22
88.56	402.61	8.17	17.59	10.39	48.9
61.09	255.58	7.97	26.63	13.18	129.52
5.24	158.11	5.37	7.21	3.51	98.18
0	165.85	4.67	58.52	21.35	34.94
0	44.78	5.59	46.44	23.1	9.82
0	75.13	3.11	27.5	14.28	8.45
0	6.95	2.44	68.77	25.1	82.45
0	23.09	2.82	1.06	0.36	23.57
0	21.72	2.59	51.9	25.39	534.51
0	63.97	3.04	57.85	29.09	86.67
60.73	365.24	5.27	27.94	11.48	38.05
48.64	230.19	6.28	30.29	13.63	202.58
30.99	317.23	6.94	24.23	10.29	11.67
83.28	356.54	5.03	14.57	5.97	35.12
28.75	293.12	6.18	34.78	27.84	10.23
9.63	115.58	6.7	25.53	18.76	12.5
1.46	61.64	4.61	44.12	31.47	139.28
16.39	154.99	6.4	26.95	20.74	45.71
9.32	69.09	6.42	25.29	18.54	101.2
1.97	159.32	6.47	9.59	6.59	5.84
2.94	16.99	5.32	35.25	22.77	454.95
81.44	282.33	6.83	9.95	4.27	173.38
86.1	355.1	7.49	4.94	1.46	91.73
52.88	256.83	7.01	18.45	5.2	104.89
42.45	155.35	7.13	8.72	3.38	43.67
99.41	416.45	18.72	8.45	3.61	168.95
98.91	374.82	13.23	1.46	0.48	250.63
100	882.75	6.32	8.9	4.35	37.86
100	852.27	6.73	10.43	5.85	34.21
100	528.66	10.49	15.33	11.81	15.74
99.73	478.53	14.87	6.08	2.96	183.84
99.49	480.33	14.91	12.6	6.15	49.39
99.85	471.08	16.92	2.7	1.14	97.95
79.43	183.8	11.55	16.02	8.05	107.43
24.02	207.45	9.44	36.4	19.12	10.58
100	730.35	10.61	2.14	0.82	8.87
100	551.2	11.17	15.78	8.2	24.05
100	545.43	9.44	0.66	0.33	5.06
100	661.94	7.86	12.65	4.19	26.54
99.67	396.21	7.97	21.27	7.07	449.12
99.13	425.11	13.68	4.01	2.46	153.13
5.22	177.86	6.35	36.4	11.4	33.6
100	611.51	8.74	0.34	0.18	39.36
100	578.63	14.55	8.72	4.11	15.68
45.52	80.41	7.57	11.41	4.94	241.89
13.14	95.67	6.76	10.81	3.95	61.32
0	54.33	7.44	7.35	1.99	20.74
100	691.2	14.08	9.8	5.93	84.77
100	657.44	11.41	15.58	7.51	94.22
100	628.7	12.77	15.23	7.01	64.22
85.83	306.37	12.63	8.91	4.68	380.35
100	1,157.79	11.92	2.76	2.14	9.9
100	837.77	17.02	5.6	3.22	71.63
100	623.52	24.33	11.34	5.71	84.24

Table 3. Basin, climate, and land-use characteristics for contributing areas to 61 streamflow-gaging stations in southern[USGS, U.S. Geological Survey; mi², square mile; ft, feet; in, inches; °F, degrees Fahrenheit; m, Massachusetts State Plane meters. Code names and descriptions

USGS station number	Station name	Code	Basin characteristics			
			OUTLETX (m)	OUTLETY (m)	CENTROIDY (m)	CENTROIDX (m)
01073000	Oyster River near Durham, NH	OYST	243,518.55	988,808.44	989,775.87	240,202.33
01082000	Contoocook River at Peterborough, NH	CONT	162,443.32	956,960.26	951,596.76	159,915.3
01084500	Beard Brook near Hillsboro, NH	BEAR	165,309.2	984,931.0	990,222.66	158,836.45
01085800	West Branch Warner River near Bradford, NH	WBWA	157,291.42	1,001,086.37	1,001,523.63	155,328.53
01089000	Soucook River near Concord, NH	SOU1	203,085.86	998,672.12	1,010,519.68	203,854.55
01091000	South Branch Piscataquog River near Goffstown, NH	SBPI	188,466.89	973,805.62	971,564.52	179,143.54
01093800	Stony Brook tributary near Temple, NH	STON	172,796.39	956,660.25	957,937.13	171,040.97
01095220	Stillwater River near Sterling, MA	STIL	176,022.74	906,748.48	912,732.62	172,752.38
01096000	Squannacook River near West Groton, MA	SQUA	187,053.22	931,531.87	937,077.72	178,967.83
010965852	Beaver Brook at North Pelham, NH	BBNH	211,973.53	948,039.25	957,822.41	213,789.69
01097300	Nashoba Brook near Acton, MA	NASH	207,870.61	918,009.75	921,156.05	206,101.45
01100700	East Meadow River near Haverhill, MA	EMEA	238,232.89	951,312.06	953,397.63	237,391.19
01105600	Old Swamp River near South Weymouth, MA	OLDS	245,861.84	882,363.94	880,018.18	247,124.64
01105730	Indian Head River at Hanover, MA	IHEA	256,037.02	872,472.0	873,986.9	250,891.01
01106000	Adamsville Brook at Adamsville, RI	ADAM	230,923.89	812,125.32	815,623.79	229,876.4
01108000	Taunton River near Bridgewater, MA	TAUN	245,100.68	853,868.78	858,145.02	245,800.0
01109000	Wading River near Norton, MA	WADI	226,805.86	855,300.19	860,764.88	219,727.74
01111300	Nipmuc River near Harrisville, RI	NIPM	184,594.14	858,998.94	863,020.93	182,728.88
01111500	Branch River at Forestdale, RI	BRAN	194,770.65	860,645.07	856,733.23	185,015.45
01115098	Peepetoad Brook at Elmdale Road near Westerly, RI	PEEP	191,182.92	844,703.19	847,857.48	189,714.68
01115187	Ponaganset River at South Foster, RI	PONA	182,961.86	840,954.06	844,656.84	180,066.36
01115630	Nooseneck River at Nooseneck, RI	NOOS	188,918.45	819,660.72	820,444.37	186,549.63
01117468	Beaver River near Usquepaug, RI	BRR1	189,300.8	804,721.25	809,815.73	187,945.29
01117500	Pawcatuck River at Wood River Junction, RI	PAWR	184,881.98	799,453.44	806,426.04	192,628.29
01117800	Wood River near Arcadia, RI	WOOA	181,599.06	813,776.81	819,770.59	179,132.13
01118000	Wood River at Hope Valley, RI	WOOH	181,925.75	805,353.0	815,209.15	180,141.84
01118300	Pendleton Hill Brook near Clarks Falls, CT	PEND	172,080.59	802,793.5	805,030.58	171,485.62
01118500	Pawtucket River at Westerly, RI	PAWE	172,155.13	792,738.68	805,704.2	182,880.39
01120000	Hop Brook near Columbia, CT	HOPC	133,247.23	831,128.12	837,608.9	127,304.32
01121000	Mount Hope River near Warrenville, CT	MOUN	144,441.53	843,927.94	849,147.17	143,929.65
01123000	Little River near Hanover, CT	LITT	154,007.17	824,761.56	834,408.81	154,204.75
01126600	Blackwell Brook near Brooklyn, CT	BLAC	162,043.86	835,111.56	839,747.11	158,954.51
01154000	Saxtons River at Saxtons River, VT	SAXT	119,599.67	987,902.19	989,763.07	109,961.19
01155000	Cold River at Drewsville, NH	COLD	127,584.63	987,212.2	993,497.63	137,009.89
01161500	Tarbell Brook near Winchendon, MA	TARB	152,047.67	940,385.94	945,357.75	152,327.42
01162500	Priest Brook near Winchendon, MA	PRIE	149,588.69	937,070.69	945,207.23	148,649.74
01165500	Moss Brook at Wendell Depot, MA	MOSS	129,465.56	928,388.25	933,256.53	129,618.33
01169000	North River at Shattuckville, MA	NORT	99,538.86	932,694.28	943,772.34	95,441.58
01169900	South River near Conway, MA	SOUT	101,949.5	921,961.5	918,108.61	97,019.79
01170100	Green River near Colrain, MA	GREC	104,089.24	939,861.31	950,186.79	101,444.46
01171500	Mill River at Northampton, MA	MILL	103,960.97	897,154.87	905,597.23	98,467.2
01171800	Bassett Brook near North Hampton, MA	BASS	102,103.78	895,360.0	896,836.31	100,148.03
01174000	Hop Brook near New Salem, MA	HOPM	131,404.5	914,544.94	916,464.3	130,395.14
01174565	West Branch Swift River near Shutesbury, MA	WBSW	127,474.85	912,285.19	916,820.62	127,169.18
01174900	Cadwell Creek near Belchertown, MA	CADW	128,342.21	898,715.87	900,485.64	126,998.69
01175670	Sevenmile River near Spencer, MA	SEVE	158,352.75	890,636.75	895,572.16	158,929.0
01176000	Quaboag River at West Brimfield, MA	QUAB	136,956.34	881,561.85	889,647.3	152,308.71
01181000	West Branch Westfield at Huntington, MA	WBWE	84,808.93	888,370.44	896,085.99	73,636.15
01184100	Stony Brook near West Suffield, CT	STCT	99,652.91	857,443.4	858,476.4	98,651.13
01187300	Hubbard River near West Hartland, CT	HUBB	80,815.82	866,241.56	871,066.61	77,898.67
01187400	Valley Brook near West Hartland, CT	VALL	81,610.73	865,878.12	869,891.17	82,926.8
01193500	Salmon River near East Hampton, CT	SALR	120,804.56	811,787.19	819,920.84	124,007.27
01194500	East Branch Eightmile River near North Lyme, CT	EBEM	130,286.23	797,846.7	803,521.72	134,454.46
01195100	Indian River near Clinton, CT	INDI	113,651.14	784,520.76	787,411.27	112,219.56
01198000	Green River near Great Barrington, MA	GRGB	43,816.3	884,116.55	891,855.03	39,828.55
01198500	Blackberry River at Canaan, CT	BLAB	47,480.84	865,379.81	864,890.38	56,217.41
01199050	Salmon Creek at Lime Rock, CT	SALC	43,208.5	856,400.19	862,318.51	39,146.35
01200000	Ten Mile River, CT	TENM	31,060.84	825,201.75	841,334.44	29,351.53
01331400	Dry Brook near Adams, MA	DRYB	67,590.99	927,747.11	925,241.97	69,754.42
01332000	North Branch Hoosic River at North Adams, MA	NBHO	69,473.81	940,298.37	947,312.35	71,122.17
01333000	Green River at Williamstown, MA	GREW	61,001.19	941,202.25	933,379.35	57,615.86

New England.—Continued

for basin, climate, and land-use characteristics are given in table 2.]

Climate characteristics			Land-use characteristics						
PRECIPIN (in)	TEMPMAX_30 (°F)	TEMPMIN_30 (°F)	AWET LANDPC (percent)	ALA KEPCT (percent)	PERFORESTED (percent)	SOILSA (percent area)	SOILSB (percent area)	SOILSC (percent area)	SOILSD (percent area)
44.13	14.57	2.14	10.31	1.28	71.61	34.69	16.95	42.22	4.75
47.47	13.2	1.27	8.82	2.92	76.13	16.03	26.35	47.18	1.74
48.66	12.9	1.77	6.67	1.86	88.59	6.3	33.15	52.67	3.98
51.02	12.47	1.95	1.85	0	93.72	8.99	19.19	68.94	2.62
44.2	13.24	1.23	6.07	1.16	80.23	12.04	10.03	71.34	5.37
46.72	13.5	1.39	6.19	1.02	83.06	10.59	28.59	53.62	2.97
48.61	12.8	1.59	1.28	0	93.03	0.77	23.66	73.99	0.78
50.17	13.93	2.27	6.75	1.67	74.59	13.29	15.12	63.16	6.11
47.92	14.2	1.75	5.15	0.69	75.99	16.76	28.2	43.32	9.53
45	14.69	1.56	8.45	1	48.79	5.72	55.71	23.8	7.84
46.16	15.07	2.52	13.89	0.73	67.31	21.34	22.85	29.08	21.06
46.69	14.95	3.43	13.08	0.11	72.04	34.77	19.25	22.77	14.58
46.79	15.01	4.71	17.04	0.07	30.43	15.59	9.79	62.08	8.78
46.9	15.17	4.67	19.9	2.58	26.73	73.73	0.78	23.71	0.55
48.82	14.76	5.44	23.34	0.3	72.72	2.74	8.26	67.38	20.19
48.6	15.27	4.44	20.91	6.36	50.32	46.28	2.41	33.87	8.38
49.12	15.31	3.91	15.68	2.48	58.38	28.53	13.58	30.21	22.5
49.21	14.69	2.89	9.63	0.7	87.27	9.96	30.82	49.94	7.72
50.03	14.86	3.38	9.22	3.66	77.87	16.97	37.77	38.34	1.66
50.31	14.95	3.78	10.21	1.99	81.2	8.66	61.76	25.31	0.21
51.94	14.7	3.63	11.22	3.09	87.35	4.74	26.17	65.23	0.27
49.53	14.93	3.77	14.36	0.63	81.56	13.64	42.93	36.46	1.45
50.24	14.85	4.45	12.49	0.96	90.73	14.43	65.55	17.52	1.55
50.42	14.92	4.73	18.16	3.43	72.25	24	55.31	14.38	2.15
49.53	15.09	3.49	10	1.32	88.45	15.14	54.42	20.98	7.7
49.65	15.11	3.78	10.59	2.44	85.02	16.68	54.33	19.68	5.58
50.01	14.98	4.53	4.71	0.08	91	3.08	66.83	8.31	21.49
49.77	15	4.61	14.77	2.7	75.87	19.76	52.11	17.56	6.52
50.67	14.38	2.44	1.61	2.03	64.18	2.79	48.17	24.97	21.67
50.53	14.2	2.62	1.45	1.75	74.07	2.02	37.39	35.51	23.04
51.01	14.67	2.87	3.1	0.98	73.55	10.54	28.97	40.16	18.34
50.77	14.73	2.73	2.87	0.61	78.34	6.63	40.26	29.27	23.32
48.56	12.05	-0.28	1.72	0	90.59	7.05	21.76	56.54	13.95
43.52	12.62	1.26	2.74	0.7	85.42	8.33	39.95	48.89	0.72
47.38	13.35	0.61	12.77	3.34	72.98	9.58	26.64	51.61	0.32
47.6	13.32	0.74	12.21	1.44	78.65	11.05	27.39	51.59	3.09
46.96	13.6	1.05	6.06	1.14	87.69	13.14	0	86.85	0
51.72	12.28	0.77	2.18	0.4	83.34	0.96	11.58	82.97	4.07
51.49	12.97	1.14	2.58	0.71	78.65	0	0	99.97	0
51.43	12.34	0.64	1.49	0.45	90.66	1.47	19.68	72.68	5.37
49.72	13.71	1.37	4.09	1.1	73.94	8.75	22.02	65.09	2.2
47.41	14.68	2.21	5.13	0.71	64.03	21.81	41.61	28.94	2.72
52	13.34	1.56	2.68	0	81.53	0	0	100	0
50.76	13.44	1.52	3.4	0.01	91.09	0	0	100	0
48.9	13.55	1.89	2.95	0	95.88	13.67	45.34	38.02	2.95
48.19	13.5	1.88	8.16	2.33	70.46	9.03	13.38	68.16	7.3
48.4	13.78	2.05	9.01	3.35	59.84	10.7	15.31	59.02	11.38
56.53	12.77	1.18	4.29	1.63	86.89	2.03	8.29	88.15	0.05
47.41	15.47	3.63	2.29	0.53	47.76	3.13	34.42	22.01	39.7
53.05	12.82	0.97	5.36	2.29	92.09	0.49	2.89	92.11	2.42
52.28	13.28	0.97	2.16	0.46	94.35	6.58	21.28	68.2	3.23
51.3	14.86	3.39	1.46	1.02	65.45	3.49	51.96	20.63	22.52
51.5	14.97	3.2	1.39	0.38	72.75	4.01	64.35	10.41	20.51
50.26	15.39	4.24	0.69	0.16	74.12	1.48	44.97	30.96	22.3
47.74	13.06	1.19	2.96	0.85	78.31	8.96	14.46	73.35	2.42
51.26	12.88	1.74	3.95	2.39	69.5	5.89	40.93	30.13	20.04
49.15	13.45	1.56	1.39	3.89	65.64	5.25	32.92	32.75	25.04
46.68	14.6	2.48	1.82	1.15	64.47	3.9	33.65	54.55	6.55
51.61	11.77	1.42	6.49	0.03	74.66	0	23.67	76.01	0
51.9	11.76	1.25	2.31	0.32	83.16	1.48	35.96	54.9	6.99
48.3	12.25	1.19	1.46	0.16	77.59	4.89	17.39	76.32	0.28

Table 8. Flow statistics produced by the Indicators of Hydrologic Alteration (IHA) and Hydrologic Index Tool (HIT) for characterization

[Descriptions of the indices are provided in table 7. USGS, U.S. Geological Survey; ft³/s/mi², cubic feet per second per square mile. Code names and descriptions

USGS station number	Station name	Station code	Magnitude						
			MA1 (ft ³ /s/mi ²)	MA3 (percent)	MA12 (ft ³ /s/mi ²)	MA15 (ft ³ /s/mi ²)	MA20 (ft ³ /s/mi ²)	MA22 (ft ³ /s/mi ²)	MA27 (percent)
01073000	Oyster River near Durham, NH	OYST	1.61	148.9	1.39	4.10	0.32	1.56	62.8
01082000	Contocook River at Peterborough, NH	CONT	1.83	123.9	1.73	4.69	0.55	1.58	53.6
01084500	Beard Brook near Hillsboro, NH	BEAR	1.96	185.9	1.37	6.29	0.45	1.93	81.3
01085800	West Branch Warner River near Bradford, NH	WBWA	2.00	172.7	1.42	6.35	0.48	2.06	76.5
01089000	Soucook River near Concord, NH	SOU1	1.44	133.5	1.26	4.00	0.32	1.28	54.3
01091000	South Branch Piscataquog River near Goffstown, NH	SBPI	1.72	153.8	1.62	4.75	0.36	1.42	66.8
01093800	Stony Brook tributary near Temple, NH	STON	1.99	158.8	1.87	5.52	0.51	2.05	68.3
01095220	Stillwater River near Sterling, MA	STIL	1.63	161.0	1.79	3.60	0.48	1.41	79.3
01096000	Squannacook River near West Groton, MA	SQUA	1.74	125.9	1.76	4.26	0.45	1.49	56.3
010965852	Beaver Brook at North Pelham, NH	BBNH	1.57	134.2	1.49	3.89	0.32	1.48	55.1
01097300	Nashoba Brook near Acton, MA	NASH	1.59	129.3	1.87	3.60	0.36	1.35	50.5
01100700	East Meadow River near Haverhill, MA	EMEA	2.11	163.8	2.05	5.55	0.44	1.78	69.0
01105600	Old Swamp River near South Weymouth, MA	OLDS	1.92	152.1	2.55	3.08	0.67	1.95	67.6
01105730	Indian Head River at Hanover, MA	IHEA	2.02	112.0	2.68	3.36	0.70	1.96	48.7
01106000	Adamsville Brook at Adamsville, RI	ADAM	2.00	147.6	2.82	3.60	0.53	1.82	64.2
01108000	Taunton River near Bridgewater, MA	TAUN	1.93	94.9	2.60	3.55	0.59	1.52	36.3
01109000	Wading River near Norton, MA	WADI	1.72	101.9	2.38	3.21	0.43	1.41	36.9
01111300	Nipmuc River near Harrisville, RI	NIPM	1.87	136.8	2.59	3.65	0.37	1.58	57.4
01111500	Branch River at Forestdale, RI	BRAN	1.95	110.4	2.54	3.51	0.63	1.74	50.0
01115098	Peepoad Brook at Elmdale Road near Westerly, RI	PEEP	2.13	121.3	3.02	4.12	0.42	1.71	44.9
01115187	Ponaganset River at South Foster, RI	PONA	2.07	142.3	2.90	4.07	0.38	1.72	61.3
01115630	Nooseneck River at Nooseneck, RI	NOOS	2.25	85.3	2.94	3.93	0.75	1.97	34.6
01117468	Beaver River near Usquepaug, RI	BRRI	2.32	81.7	2.97	4.12	0.80	1.77	30.0
01117500	Pawcatuck River at Wood River Junction, RI	PAWR	1.98	72.7	2.50	3.51	0.79	1.45	24.6
01117800	Wood River near Arcadia, RI	WOOA	2.16	81.8	2.86	3.78	0.75	1.78	31.2
01118000	Wood River at Hope Valley, RI	WOOH	2.17	83.5	2.86	3.78	0.80	1.77	34.1
01118300	Pendleton Hill Brook near Clarks Falls, CT	PEND	2.14	124.2	2.98	3.87	0.55	1.94	54.4
01118500	Pawtucket River at Westerly, RI	PAWE	1.96	77.9	2.57	3.47	0.72	1.51	28.1
01120000	Hop Brook near Columbia, CT	HOPC	1.73	125.1	2.32	2.99	0.59	1.63	57.4
01121000	Mount Hope River near Warrenville, CT	MOUN	1.84	138.6	2.50	3.28	0.58	1.63	61.6
01123000	Little River near Hanover, CT	LITT	1.82	125.3	2.48	3.18	0.54	1.63	56.8
01126600	Blackwell Brook near Brooklyn, CT	BLAC	1.85	141.3	2.50	3.34	0.51	1.68	62.6
01154000	Saxtons River at Saxtons River, VT	SAXT	1.78	160.3	1.29	5.59	0.57	1.71	71.5
01155000	Cold River at Drewsville, NH	COLD	1.47	154.1	1.10	4.62	0.43	1.40	66.1
01161500	Tarbell Brook near Winchendon, MA	TARB	1.64	117.1	1.53	4.40	0.55	1.42	48.1
01162500	Priest Brook near Winchendon, MA	PRIE	1.69	133.7	1.55	4.62	0.55	1.52	55.2
01165500	Moss Brook at Wendell Depot, MA	MOSS	1.63	136.7	1.54	4.25	0.57	1.36	61.5
01169000	North River at Shattuckville, MA	NORT	2.16	154.2	1.66	6.40	0.76	2.04	71.2
01169900	South River near Conway, MA	SOUT	2.12	144.9	1.82	5.57	0.85	1.98	65.0
01170100	Green River near Colrain, MA	GREC	2.09	141.6	1.62	6.24	0.70	2.00	63.3
01171500	Mill River at Northampton, MA	MILL	1.86	129.8	1.76	4.24	0.75	1.67	59.8
01171800	Bassett Brook near North Hampton, MA	BASS	1.54	122.7	1.48	3.33	0.63	1.40	56.5
01174000	Hop Brook near New Salem, MA	HOPM	1.91	136.8	2.16	4.43	0.46	1.55	60.8
01174565	West Branch Swift River near Shutesbury, MA	WBSW	1.71	142.6	1.84	3.53	0.65	1.58	70.8
01174900	Cadwell Creek near Belchertown, MA	CADW	2.06	143.9	2.25	4.16	0.77	1.91	71.7
01175670	Sevenmile River near Spencer, MA	SEVE	1.71	120.1	2.01	3.79	0.46	1.36	48.2
01176000	Quaboag River at West Brimfield, MA	QUAB	1.68	90.6	1.90	3.69	0.51	1.39	31.0
01181000	West Branch Westfield at Huntington, MA	WBWE	2.08	155.0	1.90	5.31	0.75	1.93	70.5
01184100	Stony Brook near West Suffield, CT	STCT	1.88	167.1	1.94	3.99	0.78	1.77	78.9
01187300	Hubbard River near West Hartland, CT	HUBB	2.07	167.2	2.04	4.78	0.82	2.15	76.1
01187400	Valley Brook near West Hartland, CT	VALL	2.13	161.5	2.10	4.80	0.85	2.17	71.9
01193500	Salmon River near East Hampton, CT	SALR	1.87	123.0	2.57	3.37	0.57	1.63	53.3
01194500	East Branch Eightmile River near North Lyme, CT	EBEM	2.11	137.4	2.95	3.73	0.54	1.93	61.5
01195100	Indian River near Clinton, CT	INDI	1.65	144.0	2.37	2.96	0.37	1.53	61.5
01198000	Green River near Great Barrington, MA	GRGB	1.83	153.5	1.76	4.45	0.65	1.65	67.2
01198500	Blackberry River at Canaan, CT	BLAB	1.62	121.1	1.65	3.27	0.73	1.70	58.3
01199050	Salmon Creek at Lime Rock, CT	SALC	1.67	107.9	1.71	3.20	0.82	1.46	47.8
01200000	Ten Mile River, CT	TENM	1.55	115.1	1.79	2.95	0.56	1.22	44.1
01331400	Dry Brook near Adams, MA	DRYB	2.36	180.9	2.01	6.31	0.80	2.11	72.2
01332000	North Branch Hoosic River at North Adams, MA	NBHO	2.13	125.2	1.95	5.00	0.83	1.98	54.3
01333000	Green River at Williamstown, MA	GREW	1.97	123.1	1.80	4.61	0.78	1.84	53.7

of hydrologic variation for 61 streamflow-gaging stations in southern New England.

for hydrologic indices are given in table 7.]

Magnitude						Frequency		Duration		Rate of change		Timing
MA33 (percent)	MA35 (percent)	ML7 (ft ³ /mi ²)	ML17 (dimen- sionless)	ML18 (number/ year)	ML20 (dimen- sionless)	FL1 (number/ year)	FH9 (number/ year)	DH18 (days)	IHA_HD5 (ft ³ /mi ²)	RA7 (ft ³ /mi ² /d)	IHA_RF1	IHA_JMAX (Julian date)
89.9	63.5	0.12	0.04	48.71	0.48	7.51	7.47	6.8	3.72	-0.14	-0.083	94
65.0	52.1	0.30	0.11	41.97	0.54	7.62	7.51	6.3	3.95	-0.10	-0.107	97
113.9	88.2	0.10	0.03	66.66	0.37	7.67	7.64	7.0	4.50	-0.14	-0.097	106
107.2	84.2	0.12	0.04	62.08	0.40	8.20	8.18	6.0	4.60	-0.14	-0.102	107
66.3	51.8	0.18	0.06	44.60	0.53	6.44	6.13	7.9	3.21	-0.10	-0.064	94
78.9	62.7	0.18	0.06	50.48	0.48	6.60	6.51	7.0	3.97	-0.11	-0.097	95
102.8	78.5	0.14	0.04	68.33	0.45	8.27	8.11	6.0	4.33	-0.13	-0.139	96
103.8	78.5	0.09	0.03	85.79	0.42	9.69	9.47	4.2	3.58	-0.16	-0.097	83
64.9	53.3	0.28	0.10	42.77	0.56	6.40	6.29	5.9	3.76	-0.10	-0.094	84
77.8	57.9	0.14	0.05	47.00	0.52	7.47	7.36	6.9	3.61	-0.12	-0.084	94
76.7	53.0	0.13	0.03	102.65	0.53	6.71	6.62	6.9	3.40	-0.13	-0.113	83
93.5	65.8	0.20	0.05	56.77	0.47	6.89	6.80	6.6	4.96	-0.13	-0.127	82
98.2	77.1	0.14	0.04	58.50	0.44	9.76	9.64	3.3	3.78	-0.15	-0.133	63
68.9	55.1	0.23	0.07	58.03	0.53	7.20	6.96	4.3	4.16	-0.12	-0.132	63
89.0	67.7	0.12	0.02	130.43	0.45	6.98	6.76	4.6	4.09	-0.15	-0.125	45
42.7	41.6	0.38	0.12	40.91	0.64	5.76	5.49	6.9	4.05	-0.07	-0.092	73
56.9	42.1	0.18	0.06	76.91	0.60	5.87	5.80	7.3	3.65	-0.09	-0.092	62
90.3	62.0	0.14	0.03	110.56	0.50	7.33	6.93	4.5	4.18	-0.14	-0.125	78
56.8	44.9	0.31	0.11	44.39	0.57	7.22	7.31	4.6	3.78	-0.10	-0.110	79
67.7	53.2	0.15	0.03	94.09	0.54	5.76	5.64	7.9	4.64	-0.11	-0.120	58
90.8	64.1	0.12	0.03	117.41	0.49	6.22	5.96	5.3	4.51	-0.14	-0.136	71
51.1	39.2	0.51	0.13	40.91	0.67	7.64	7.38	3.2	4.02	-0.09	-0.122	70
44.2	36.3	0.65	0.16	41.21	0.71	6.89	6.60	3.5	4.25	-0.07	-0.113	82
29.9	27.7	0.69	0.21	37.84	0.76	5.89	5.82	6.7	3.63	-0.05	-0.080	79
46.9	35.6	0.55	0.15	36.54	0.69	7.20	7.00	3.8	3.89	-0.07	-0.114	78
46.4	37.9	0.57	0.17	32.33	0.67	7.22	6.89	3.5	3.80	-0.07	-0.110	83
83.6	57.9	0.18	0.03	117.78	0.51	8.09	8.13	3.8	4.34	-0.14	-0.149	56
35.3	31.6	0.59	0.19	34.66	0.72	5.13	4.87	6.1	3.62	-0.06	-0.081	83
75.5	63.3	0.17	0.06	55.31	0.50	9.29	9.60	3.4	3.38	-0.13	-0.128	74
88.8	70.2	0.15	0.04	62.78	0.47	9.31	9.73	3.6	3.69	-0.15	-0.140	78
68.6	56.9	0.35	0.12	36.51	0.53	8.44	8.29	3.2	3.57	-0.11	-0.133	80
86.3	69.2	0.15	0.04	60.03	0.47	9.38	9.40	3.8	3.71	-0.14	-0.140	82
88.3	68.8	0.18	0.07	45.06	0.45	8.87	8.96	7.1	4.01	-0.12	-0.091	101
86.1	69.6	0.16	0.07	43.89	0.46	8.58	8.38	6.6	3.32	-0.12	-0.072	105
51.6	42.4	0.20	0.08	57.61	0.54	6.87	6.80	9.1	3.39	-0.11	-0.099	98
70.0	55.8	0.13	0.04	71.75	0.46	6.78	6.73	8.7	3.71	-0.13	-0.103	96
80.9	60.2	0.16	0.06	53.79	0.46	8.27	8.09	6.7	3.61	-0.14	-0.114	91
91.5	70.5	0.28	0.08	40.99	0.46	9.51	9.29	5.6	4.68	-0.12	-0.112	105
89.3	66.5	0.30	0.09	37.18	0.51	9.31	9.16	5.1	4.44	-0.11	-0.124	104
86.8	65.4	0.29	0.08	44.40	0.48	8.96	8.82	5.6	4.62	-0.11	-0.121	101
81.3	60.4	0.28	0.10	39.28	0.51	9.22	9.31	4.3	3.91	-0.11	-0.102	87
78.1	55.2	0.25	0.11	39.35	0.53	9.96	10.02	4.5	3.12	-0.11	-0.090	85
98.5	63.1	0.12	0.02	111.49	0.48	9.18	9.22	5.1	4.02	-0.15	-0.131	82
91.1	68.5	0.13	0.04	71.19	0.46	9.53	9.27	3.7	3.54	-0.14	-0.100	91
93.8	69.9	0.15	0.04	77.35	0.45	9.69	9.89	3.5	4.31	-0.15	-0.124	90
72.4	47.3	0.17	0.04	87.23	0.54	7.11	7.20	5.6	3.63	-0.12	-0.114	78
38.1	30.6	0.32	0.11	52.33	0.67	5.22	4.96	11.6	3.34	-0.06	-0.067	84
89.1	73.4	0.21	0.06	59.70	0.44	8.89	8.49	4.9	4.51	-0.13	-0.117	105
105.6	80.2	0.11	0.03	87.30	0.38	9.02	8.98	4.3	4.04	-0.17	-0.135	87
104.5	81.5	0.11	0.03	65.15	0.38	8.60	8.56	4.3	4.47	-0.16	-0.151	85
108.3	78.5	0.14	0.04	60.99	0.40	8.78	8.71	4.1	4.57	-0.16	-0.154	85
78.8	60.6	0.22	0.06	62.06	0.51	8.40	8.42	3.4	3.64	-0.12	-0.120	70
88.6	64.7	0.19	0.05	60.54	0.48	8.60	8.62	3.7	4.05	-0.13	-0.134	73
98.4	65.2	0.11	0.02	116.85	0.47	8.07	7.93	4.1	3.39	-0.15	-0.123	66
80.6	65.4	0.22	0.07	56.38	0.45	7.67	7.27	5.3	3.83	-0.11	-0.104	96
78.3	60.7	0.21	0.08	46.78	0.49	9.11	9.04	3.3	3.16	-0.13	-0.114	82
51.6	46.7	0.33	0.14	57.38	0.57	8.42	9.16	4.1	3.23	-0.10	-0.102	83
49.4	42.6	0.28	0.10	52.54	0.56	5.89	5.80	5.5	3.15	-0.09	-0.084	78
86.8	80.5	0.19	0.04	60.41	0.37	7.98	8.22	6.3	5.47	-0.14	-0.130	91
58.6	57.5	0.35	0.10	44.98	0.50	8.02	7.89	5.6	4.44	-0.10	-0.110	95
57.5	56.3	0.33	0.11	43.44	0.51	8.04	7.89	5.5	4.11	-0.10	-0.094	95

