

### Details of CAMELS catchments used for this study

USGS Gauge ID	Name	Drainage Area	Simulation Period	Year for Calibration	Year for Validation
01591400	CATTAIL CREEK NEAR GLENWOOD, MD	59.61	1981-2000	13	7
01658500	S F QUANTICO CREEK NEAR INDEPENDENT HILL, VA	23.69	1981-2000	13	7
01669000	PISCATAWAY CREEK NEAR TAPPAHANNOCK, VA	75.31	1981-2000	13	7
01669520	DRAGON SWAMP AT MASCOT, VA	277.68	1982-2000	13	6
02038850	HOLIDAY CREEK NEAR ANDERSONVILLE, VA	23.8	1981-2000	13	7
02046000	STONY CREEK NEAR DINWIDDIE, VA	290.88	1981-2000	13	7
02051000	NORTH MEHERRIN RIVER NEAR LUNENBURG, VA	145.1	1981-2000	13	7
02051500	MEHERRIN RIVER NEAR LAWRENCEVILLE, VA	1432.41	1981-2000	13	7
02056900	BLACKWATER RIVER NEAR ROCKY MOUNT, VA	299.46	1981-2000	13	7
02059500	GOOSE CREEK NEAR HUDDLESTON, VA	486.46	1981-2000	13	7
02064000	FALLING RIVER NEAR NARUNA, VA	427.98	1981-2000	13	7
02065500	CUB CREEK AT PHENIX, VA	252.75	1981-2000	13	7
02069700	SOUTH MAYO RIVER NEAR NETTLERIDGE, VA	228.68	1981-2000	13	7
02070000	NORTH MAYO RIVER NEAR SPENCER, VA	279.27	1981-2000	13	7
02074500	SANDY RIVER NEAR DANVILLE, VA	288.79	1981-2000	13	7
02077200	HYCO CREEK NEAR LEASBURG, NC	126.34	1981-2000	13	7
02081500	TAR RIVER NEAR TAR RIVER, NC	432.82	1981-2000	13	7
02082950	LITTLE FISHING CREEK NEAR WHITE OAK, NC	461.92	1981-2000	13	7
02092500	TRENT RIVER NEAR TRENTON, NC	435.17	1981-2000	13	7
02096846	CANE CREEK NEAR ORANGE GROVE, NC	19.58	1990-2000	7	4

02102908	FLAT CREEK NEAR INVERNESS, NC	20.06	1981-2000	13	7
02108000	NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC	1550.74	1981-2000	13	7
02111180	ELK CREEK AT ELKVILLE, NC	130.87	1981-2000	13	7
02111500	REDDIES RIVER AT NORTH WILKESBORO, NC	233.35	1981-2000	13	7
02112120	ROARING RIVER NEAR ROARING RIVER, NC	329.79	1981-2000	13	7
02112360	MITCHELL RIVER NEAR STATE ROAD, NC	206.82	1981-2000	13	7
02118500	HUNTING CREEK NEAR HARMONY, NC	400.53	1981-2000	13	7
02125000	BIG BEAR CR NR RICHFIELD, NC	145.07	1981-2000	13	7
02128000	LITTLE RIVER NEAR STAR, NC	271.99	1981-2000	13	7
02137727	CATAWBA R NR PLEASANT GARDENS, NC	329.3	1982-2000	13	6
02140991	JOHNS RIVER AT ARNEYS STORE, NC	522.11	1986-2000	10	5
02143000	HENRY FORK NEAR HENRY RIVER, NC	222.1	1981-2000	13	7
02143040	JACOB FORK AT RAMSEY, NC	68.19	1981-2000	13	7
02149000	COVE CREEK NEAR LAKE LURE, NC	203.73	1981-2000	13	7
02152100	FIRST BROAD RIVER NEAR CASAR, NC	156.68	1981-2000	13	7
02177000	CHATTOOGA RIVER NEAR CLAYTON, GA	527.23	1981-2000	13	7
02178400	TALLULAH RIVER NEAR CLAYTON, GA	152.12	1981-2000	13	7
02193340	KETTLE CREEK NEAR WASHINGTON, GA	89.61	1987-2000	9	5
02196000	STEVENS CREEK NEAR MODOC, SC	1408.7	1982-2000	13	6
02198100	BEAVERDAM CREEK NEAR SARDIS, GA	79.75	1987-2000	9	5
02202600	BLACK CREEK NEAR BLITCHTON, GA	623.34	1981-2000	13	7
02212600	FALLING CREEK NEAR JULIETTE, GA	189.79	1981-2000	13	7
02215100	TUCSAWHATCHEE CREEK NEAR HAWKINSVILLE, GA	425.51	1987-2000	9	5
02216180	TURNPIKE CREEK NEAR MCRAE, GA	128.08	1984-2000	11	6
02221525	MURDER CREEK BELOW EATONTON, GA	493.28	1981-2000	13	7

02342933	SOUTH FORK COWIKEE CREEK NEAR BATESVILLE AL	290.04	1981-2000	13	7
02349900	TURKEY CREEK AT BYROMVILLE, GA	124.29	1981-2000	13	7
02350900	KINCHAFOONEE CREEK NEAR DAWSON, GA	1365.59	1986-2000	10	5
02361000	CHOCTAWHATCHEE RIVER NEAR NEWTON, AL.	1779.3	1981-2000	13	7
02363000	PEA RIVER NEAR ARITON AL	1292.62	1989-2000	8	4
02369800	BLACKWATER RIVER NEAR BRADLEY AL	231.14	1981-2000	13	7
02371500	CONECUH RIVER AT BRANTLEY AL	1257.42	1981-2000	13	7
02372250	PATSALIGA CREEK NEAR BRANTLEY AL	1145.56	1981-2000	13	7
02374500	MURDER CREEK NEAR EVERGREEN AL	458.23	1981-2000	13	7
02381600	FAUSETT CREEK NEAR TALKING ROCK, GA	10.33	1981-2000	13	7
02384540	MILL CREEK NEAR CRANDALL, GA	22.13	1986-2000	10	5
02395120	TWO RUN CREEK NEAR KINGSTON, GA	85.27	1981-2000	13	7
02408540	HATCHET CREEK BELOW ROCKFORD AL	683.86	1981-2000	13	7
02415000	HILLABEE CREEK NEAR HACKNEYVILLE AL	491.75	1987-2000	9	5
02422500	MULBERRY CREEK AT JONES AL	599.95	1981-2000	13	7
02427250	PINE BARREN CREEK NEAR SNOW HILL, AL.	680.64	1990-2000	7	4
02430085	RED BUD CREEK NR MOORES MILL, MS	40.73	1981-2000	13	7
02430615	MUD CREEK NR FAIRVIEW, MS	32.52	1981-2000	13	7
02450250	SIPSEY FORK NEAR GRAYSON AL	242.69	1981-2000	13	7
02464000	NORTH RIVER NEAR SAMANTHA AL	581.79	1981-2000	13	7
02464146	TURKEY CREEK NEAR TUSCALOOSA	15.84	1982-2000	13	6
02464360	BINION CREEK BELOW GIN CREEK NEAR SAMANTHA AL	148.99	1988-2000	8	5
02465493	ELLIOTTS CREEK AT MOUNDVILLE AL	86.62	1981-2000	13	7
02469800	SATILPA CREEK NEAR COFFEEVILLE AL	422.88	1981-2000	13	7
02472000	LEAF RIVER NR COLLINS, MS	1927.67	1981-2000	13	7

02472500	BOUIE CREEK NR HATTIESBURG, MS	789.45	1991-2000	7	3
03140000	Mill Creek near Coshocton OH	71.31	1981-2000	13	7
03280700	CUTSHIN CREEK AT WOOTON, KY	158.56	1981-2000	13	7
03281100	GOOSE CREEK AT MANCHESTER, KY	425.25	1981-2000	13	7
03281500	SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY	1836.71	1981-2000	13	7
03285000	DIX RIVER NEAR DANVILLE, KY	823.29	1981-2000	13	7
03338780	NORTH FORK VERMILION RIVER NEAR BISMARCK, IL	691.76	1990-2000	7	4
03340800	BIG RACCOON CREEK NEAR FINCASTLE IND	363.41	1981-2000	13	7
03346000	NORTH FORK EMBARRAS RIVER NEAR OBLONG, IL	828.74	1981-2000	13	7
03357350	PLUM CREEK NEAR BAINBRIDGE, IND.	26.11	1981-2000	13	7
03364500	CLIFTY CREEK AT HARTSVILLE, IN	242.41	1981-2000	13	7
03384450	LUSK CREEK NEAR EDDYVILLE, IL	112.28	1981-2000	13	7
03460000	CATALOOCHEE CREEK NEAR CATALOOCHEE, NC	127.62	1981-2000	13	7
03498500	LITTLE RIVER NEAR MARYVILLE, TN	700.35	1981-2000	13	7
03500000	LITTLE TENNESSEE RIVER NEAR PRENTISS, NC	362.46	1981-2000	13	7
03500240	CARTOOGECHAYE CREEK NEAR FRANKLIN, NC	148.94	1981-2000	13	7
03504000	NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC	134.56	1981-2000	13	7
03574500	PAINT ROCK RIVER NEAR WOODVILLE AL	859.22	1981-2000	13	7
03592718	LITTLE YELLOW CREEK EAST NR BURNSVILLE, MS	67	1981-2000	13	7
03604000	BUFFALO RIVER NEAR FLAT WOODS, TN	1163.35	1981-2000	13	7
05495000	Fox River at Wayland, MO	1029.86	1981-2000	13	7
05495500	BEAR CREEK NEAR MARCELLINE, IL	885.73	1981-2000	13	7
05501000	North River at Palmyra, MO	929.86	1981-2000	13	7
05503800	Crooked Creek near Paris, MO	212.69	1981-2000	13	7
05507600	Lick Creek at Perry, MO	275.86	1981-2000	13	7
05508805	Spencer Cr. bl Plum Cr. nr Frankford, MO	536.51	1981-2000	13	7

05514500	CUIVRE RIVER NEAR TROY, MO	2410.51	1981-2000	13	7
05525500	SUGAR CREEK AT MILFORD, IL	1158.24	1981-2000	13	7
05584500	LA MOINE RIVER AT COLMAR, IL	1711.89	1981-2000	13	7
05585000	LA MOINE RIVER AT RIPLEY, IL	3371.38	1981-2000	13	7
05591550	WHITLEY CREEK NEAR ALLENVILLE, IL	97.12	1981-2000	13	7
05592050	ROBINSON CREEK NEAR SHELBYVILLE, IL	260.92	1981-2000	13	7
05592575	HICKORY CREEK NEAR BROWNSTOWN, IL	116.33	1990-2000	7	4
05593575	LITTLE CROOKED CREEK NEAR NEW MINDEN, IL	220.52	1981-2000	13	7
05593900	EAST FORK SHOAL CREEK NEAR COFFEEN, IL	145.69	1981-2000	13	7
05595730	RAYSE CREEK NEAR WALTONVILLE, IL	233.33	1981-2000	13	7
06888500	MILL C NR PAXICO, KS	842.52	1981-2000	13	7
06889200	SOLDIER C NR DELIA, KS	406.48	1981-2000	13	7
06889500	SOLDIER C NR TOPEKA, KS	766.03	1981-2000	13	7
06892000	STRANGER C NR TONGANOXIE, KS	1091.6	1981-2000	13	7
06906800	Lamine River near Otterville, MO	1411.96	1988-2000	8	5
06910800	MARAIS DES CYGNES R NR READING, KS	444.58	1981-2000	13	7
06911900	DRAGOON C NR BURLINGAME, KS	291.33	1981-2000	13	7
06917000	L OSAGE R AT FULTON, KS	767.5	1981-2000	13	7
06918460	Turnback Creek above Greenfield, MO	650.76	1981-2000	13	7
06919500	Cedar Creek near Pleasant View, MO	1069.85	1981-2000	13	7
06921070	Pomme de Terre River near Polk, MO	716.88	1981-2000	13	7
06921200	Lindley Creek near Polk, MO	328.76	1981-2000	13	7
06934000	Gasconade River near Rich Fountain, MO	8267.52	1988-2000	8	5
07014500	Meramec River near Sullivan, MO	3851.18	1981-2000	13	7
07056000	Buffalo River near St. Joe, AR	2147.73	1981-2000	13	7
07057500	North Fork River near Tecumseh, MO	1456.46	1981-2000	13	7

07060710	North Sylamore Creek near Fifty Six, AR	152.36	1981-2000	13	7
07066000	Jacks Fork at Eminence, MO	1050.66	1981-2000	13	7
07067000	Current River at Van Buren, MO	4315.66	1981-2000	13	7
07068000	Current River at Doniphan, MO	5312.93	1981-2000	13	7
07071500	Eleven Point River near Bardley, MO	2030.3	1981-2000	13	7
07149000	MEDICINE LODGE R NR KIOWA, KS	2263.93	1981-2000	13	7
07167500	OTTER C AT CLIMAX, KS	321.12	1981-2000	13	7
07180500	CEDAR C NR CEDAR POINT, KS	275.78	1981-2000	13	7
07184000	LIGHTNING C NR MCCUNE, KS	514.82	1981-2000	13	7
07195800	Flint Creek at Springtown, AR	38.58	1981-2000	13	7
07196900	Baron Fork at Dutch Mills, AR	106.55	1982-2000	13	6
07197000	Baron Fork at Eldon, OK	807.51	1981-2000	13	7
07261000	Cadron Creek near Guy, AR	455.94	1981-2000	13	7
07263295	Maumelle River at Williams Junction, AR	119.08	1990-2000	7	4
07290650	BAYOU PIERRE NR WILLOWS, MS	1694.61	1981-2000	13	7
07291000	HOMOCHITTO RIVER AT EDDICETON, MS	482.23	1981-2000	13	7
07292500	HOMOCHITTO RIVER AT ROSETTA, MS	2076.55	1981-2000	13	7
07295000	BUFFALO RIVER NR WOODVILLE, MS	466.88	1981-2000	13	7
07315200	E Fk Little Wichita Rv nr Henrietta, TX	502.7	1981-2000	13	7
07315700	Mud Creek near Courtney, OK	1491.41	1981-2000	13	7
07335700	Kiamichi River near Big Cedar, OK	104.13	1981-2000	13	7
07340300	Cossatot River near Vandervoort, AR	252.13	1981-2000	13	7
07346045	Black Cypress Bayou at Jefferson, TX	963.16	1981-2000	13	7
07359610	Caddo River near Caddo Gap, AR	342.43	1990-2000	7	4
07362100	SMACKOVER CREEK NEAR SMACKOVER, ARK.	996.74	1981-2000	13	7
07362587	Alum Fork Saline River near Reform, AR	70.92	1990-2000	7	4

07373000	Big Creek at Pollock, LA	134.29	1981-2000	13	7
07375000	Tchefuncta River near Folsom, LA	253.3	1981-2000	13	7
07376000	Tickfaw River at Holden, LA	649.88	1981-2000	13	7
08013000	CALCASIEU RIVER NR GLENMORA, LA	1300.18	1981-2000	13	7
08014500	Whiskey Chitto Creek Near Oberlin, LA	1325.02	1981-2000	13	7
08023080	Bayou Grand Cane near Stanley, LA	198.91	1981-2000	13	7
08025500	Bayou Toro near Toro, LA	382.74	1981-2000	13	7
08029500	Big Cow Ck nr Newton, TX	384.21	1981-2000	13	7
08050800	Timber Ck nr Collinsville, TX	109.21	1987-2000	9	5
08066200	Long King Ck at Livingston, TX	374.87	1981-2000	13	7
08070000	E Fk San Jacinto Rv nr Cleveland, TX	844.7	1981-2000	13	7
08070200	E Fk San Jacinto Rv nr New Caney, TX	1005.97	1985-2000	11	5
08086290	Big Sandy Ck abv Breckenridge, TX	733.37	1981-2000	13	7
08101000	Cowhouse Ck at Pidcoke, TX	1184.49	1981-2000	13	7
08103900	S Fk Rocky Ck nr Briggs, TX	86.26	1981-2000	13	7
08104900	S Fk San Gabriel Rv at Georgetown, TX	347.91	1981-2000	13	7
08109700	Middle Yegua Ck nr Dime Box, TX	621.67	1981-2000	13	7
08150800	Beaver Ck nr Mason, TX	562.13	1981-2000	13	7
08155200	Barton Ck at SH 71 nr Oak Hill, TX	241.48	1981-2000	13	7
08158700	Onion Ck nr Driftwood, TX	321.11	1981-2000	13	7
08158810	Bear Ck bl FM 1826 nr Driftwood, TX	33.74	1981-2000	13	7
08164000	Lavaca Rv nr Edna, TX	2120.71	1981-2000	13	7
08164300	Navidad Rv nr Hallettsville, TX	865.38	1981-2000	13	7
08164600	Garcitas Ck nr Inez, TX	264.07	1981-2000	13	7
08165300	N Fk Guadalupe Rv nr Hunt, TX	439.98	1981-2000	13	7
08171300	Blanco Rv nr Kyle, TX	1073.92	1981-2000	13	7

08175000	Sandies Ck nr Westhoff, TX	1425.27	1981-2000	13	7
08176900	Coletto Ck at Arnold Rd nr Schroeder, TX	925.53	1981-2000	13	7
08178880	Medina Rv at Bandera, TX	851.56	1984-2000	11	6
08189500	Mission Rv at Refugio, TX	1816.51	1981-2000	13	7
08190000	Nueces Rv at Laguna, TX	1923.12	1981-2000	13	7
08195000	Frio Rv at Concan, TX	1009.88	1981-2000	13	7
08196000	Dry Frio Rv nr Reagan Wells, TX	344.48	1981-2000	13	7
08198500	Sabinal Rv at Sabinal, TX	640.76	1981-2000	13	7
08200000	Hondo Ck nr Tarpley, TX	249.16	1981-2000	13	7
08202700	Seco Ck at Rowe Ranch nr D'Hanis, TX	430.69	1981-2000	13	7
11098000	ARROYO SECO NR PASADENA CA	46.67	1981-2000	13	7
11143000	BIG SUR R NR BIG SUR CA	121.32	1981-2000	13	7
11148900	NACIMIENTO R BL SAPAQUE C NR BRYSON CA	386.02	1981-2000	13	7
11162500	PESCADERO C NR PESCADERO CA	119.2	1981-2000	13	7
11299600	BLACK C NR COPPEROPOLIS CA	41.12	1984-2000	11	6
11468500	NOYO R NR FORT BRAGG CA	273.6	1981-2000	13	7
11481200	LITTLE R NR TRINIDAD CA	106.84	1981-2000	13	7
12010000	NASELLE RIVER NEAR NASELLE, WA	142.6	1981-2000	13	7
12013500	WILLAPA RIVER NEAR WILLAPA, WA	340.7	1981-2000	13	7
12020000	CHEHALIS RIVER NEAR DOTY, WA	296.74	1981-2000	13	7
12073500	HUGE CREEK NEAR WAUNA, WA	15.82	1981-2000	13	7
14166500	LONG TOM RIVER NEAR NOTI, OREG.	238.14	1981-2000	13	7