

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California

[All values rounded to the nearest whole number; because of rounding, all values may not add to totals. See figure 7 for location of the RCHRES. Units in acre-feet]

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Measured rainfall for the HRUs for channel reach 1													
1950	978.00	1,810.00	2,450.00	3,620.00	2,750.00	914.00	893.00	316.00	0.00	28.00	55.90	457.00	14,300.00
1951	70.30	1,790.00	91.40	2,810.00	1,530.00	879.00	2,570.00	450.00	0.00	1,560.00	359.00	176.00	12,300.00
1952	1,010.00	942.00	10,200.00	4,860.00	830.00	6,250.00	2,580.00	0.00	49.30	957.00	14.40	63.40	27,800.00
1953	0.00	3,350.00	2,810.00	1,830.00	738.00	1,410.00	1,550.00	633.00	0.00	246.00	626.00	0.00	13,200.00
1954	246.00	929.00	809.00	5,880.00	2,260.00	6,390.00	120.00	14.40	84.70	921.00	134.00	429.00	18,200.00
1955	0.00	1,050.00	1,570.00	4,110.00	3,130.00	35.00	535.00	1,270.00	0.00	929.00	2,550.00	0.00	15,200.00
1956	0.00	1,270.00	2,010.00	5,580.00	858.00	0.00	1,740.00	401.00	0.00	246.00	0.00	0.00	12,100.00
1957	63.30	0.00	795.00	6,300.00	914.00	1,740.00	1,170.00	3,190.00	682.00	91.40	70.30	0.00	15,000.00
1958	2,830.00	1,810.00	2,170.00	2,290.00	4,340.00	8,300.00	4,870.00	183.00	0.00	0.00	0.00	1,390.00	28,200.00
1959	246.00	316.00	6.98	724.00	5,270.00	0.00	253.00	120.00	0.00	91.40	668.00	1,130.00	8,830.00
1960	949.00	949.00	3,580.00	2,250.00	3,980.00	738.00	1,460.00	204.00	0.00	55.90	141.00	802.00	15,100.00
1961	520.00	1,030.00	331.00	963.00	0.00	1,600.00	155.00	302.00	0.00	35.00	830.00	0.00	5,760.00
1962	422.00	1,240.00	2,070.00	2,250.00	5,650.00	1,920.00	0.00	1,230.00	147.00	0.00	0.00	619.00	15,600.00
1963	619.00	77.30	499.00	661.00	3,310.00	2,130.00	2,570.00	0.00	0.00	0.00	218.00	2,750.00	12,800.00
1964	978.00	3,530.00	190.00	3,030.00	710.00	3,590.00	2,600.00	949.00	0.00	485.00	0.00	830.00	16,900.00
1965	260.00	2,090.00	2,950.00	1,050.00	1,340.00	2,320.00	5,300.00	14.40	0.00	781.00	528.00	380.00	17,000.00
1966	70.30	9,560.00	4,230.00	1,130.00	1,880.00	731.00	211.00	14.40	0.00	204.00	55.90	401.00	18,500.00
1967	577.00	1,060.00	12,700.00	2,840.00	0.00	3,120.00	3,470.00	331.00	35.00	1,410.00	1,370.00	1,060.00	28,000.00
1968	0.00	2,050.00	2,680.00	1,160.00	548.00	1,880.00	2,090.00	718.00	0.00	1,740.00	77.30	0.00	12,900.00
1969	253.00	668.00	2,200.00	12,400.00	8,860.00	2,360.00	970.00	753.00	0.00	155.00	0.00	366.00	29,000.00
1970	134.00	1,700.00	302.00	1,600.00	963.00	5,220.00	718.00	0.00	0.00	485.00	2,250.00	35.00	13,400.00
1971	98.30	2,900.00	4,540.00	1,730.00	710.00	619.00	1,330.00	1,460.00	0.00	570.00	105.00	35.00	14,100.00
1972	1,120.00	274.00	6,150.00	35.00	858.00	0.00	450.00	296.00	1,500.00	55.90	865.00	77.30	11,700.00
1973	520.00	2,560.00	3,210.00	2,930.00	4,330.00	5,530.00	331.00	218.00	0.00	0.00	429.00	0.00	20,100.00
1974	253.00	2,180.00	415.00	5,900.00	218.00	2,480.00	1,480.00	63.30	0.00	710.00	302.00	0.00	14,000.00
1975	2,150.00	105.00	1,490.00	105.00	1,870.00	5,040.00	2,340.00	527.00	0.00	98.30	0.00	1,110.00	14,800.00
1976	830.00	1,760.00	352.00	0.00	5,430.00	2,200.00	1,290.00	1,280.00	6.98	464.00	0.00	5,840.00	19,500.00
1977	211.00	640.00	1,770.00	2,460.00	795.00	1,810.00	218.00	3,350.00	176.00	6.98	2,260.00	0.00	13,700.00
1978	126.00	309.00	4,400.00	8,560.00	5,370.00	7,400.00	2,290.00	478.00	0.00	591.00	0.00	598.00	30,100.00
1979	436.00	3,310.00	4,020.00	4,920.00	3,850.00	6,140.00	0.00	239.00	0.00	1,590.00	1,190.00	14.40	25,700.00
1980	1,670.00	126.00	1,090.00	10,100.00	12,300.00	4,660.00	1,610.00	1,130.00	6.98	55.90	0.00	0.00	32,700.00
1981	253.00	0.00	2,040.00	2,240.00	2,260.00	2,370.00	858.00	422.00	0.00	0.00	0.00	724.00	11,200.00
1982	309.00	1,150.00	774.00	8,190.00	3,650.00	5,870.00	1,490.00	134.00	0.00	1,610.00	1,580.00	2,090.00	26,900.00
1983	774.00	5,950.00	3,450.00	5,210.00	5,650.00	8,030.00	5,180.00	654.00	0.00	0.00	2,710.00	352.00	38,000.00
1984	464.00	6,170.00	5,570.00	0.00	28.00	148.00	851.00	42.40	98.30	1,510.00	999.00	675.00	16,600.00
1985	731.00	1,640.00	5,200.00	1,240.00	2,260.00	3,020.00	823.00	0.00	0.00	1,190.00	0.00	1,290.00	17,400.00
1986	1,050.00	4,420.00	1,270.00	1,460.00	4,350.00	4,400.00	225.00	0.00	0.00	1,220.00	401.00	1,580.00	20,400.00
1987	394.00	1,020.00	1,780.00	2,240.00	2,050.00	2,190.00	387.00	70.30	527.00	563.00	563.00	682.00	12,500.00
1988	3,090.00	1,960.00	2,190.00	2,650.00	900.00	633.00	2,300.00	422.00	0.00	0.00	992.00	49.30	15,200.00
1989	0.00	1,480.00	3,400.00	1,770.00	4,580.00	2,290.00	0.00	211.00	0.00	0.00	816.00	450.00	15,000.00
1990	520.00	324.00	281.00	4,230.00	2,380.00	584.00	1,060.00	696.00	183.00	1,240.00	507.00	1,030.00	13,000.00
1991	55.90	999.00	485.00	1,740.00	3,610.00	10,700.00	55.90	281.00	0.00	1,460.00	267.00	507.00	20,100.00
1992	1,060.00	70.30	2,410.00	2,250.00	4,750.00	4,090.00	429.00	134.00	0.00	169.00	1,600.00	0.00	17,000.00
1993	3,070.00	0.00	4,090.00	16,700.00	7,450.00	2,080.00	0.00	591.00	851.00	0.00	0.00	0.00	34,800.00
1994	155.00	2,150.00	731.00	802.00	5,110.00	2,320.00	1,860.00	105.00	0.00	14.40	837.00	0.00	14,100.00
1995	1,260.00	1,140.00	1,210.00	10,600.00	2,540.00	11,800.00	1,270.00	1,740.00	886.00	281.00	872.00	443.00	34,100.00
1996	0.00	28.00	1,220.00	2,490.00	6,390.00	2,570.00	1,080.00	14.40	0.00	70.30	422.00	0.00	14,300.00
1997	352.00	3,520.00	4,290.00	7,030.00	1,410.00	0.00	492.00	211.00	0.00	633.00	0.00	3,280.00	21,200.00
1998	176.00	3,270.00	1,970.00	4,010.00	10,800.00	5,130.00	1,930.00	3,010.00	211.00	98.30	1,260.00	55.90	31,900.00
Mean	640.00	1,770.00	2,540.00	3,650.00	3,180.00	3,180.00	1,380.00	589.00	111.00	502.00	590.00	648.00	18,800.00
Median	394.00	1,240.00	2,040.00	2,460.00	2,380.00	2,320.00	1,080.00	302.00	0.00	246.00	359.00	380.00	15,600.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total simulated evapotranspiration in the HRUs for channel reach 1													
1950	937.00	1,590.00	1,310.00	1,520.00	2,110.00	2,570.00	2,020.00	498.00	4.35	27.90	55.90	450.00	13,100.00
1951	72.60	1,300.00	495.00	1,220.00	1,680.00	1,960.00	1,470.00	1,720.00	35.80	1,280.00	571.00	195.00	12,000.00
1952	517.00	1,070.00	1,510.00	1,580.00	1,950.00	2,380.00	3,570.00	3,710.00	476.00	897.00	94.80	63.90	17,800.00
1953	0.00	1,290.00	1,640.00	2,100.00	1,620.00	2,020.00	1,310.00	1,460.00	34.50	244.00	603.00	15.40	12,300.00
1954	243.00	851.00	848.00	1,160.00	2,450.00	2,500.00	3,730.00	1,650.00	144.00	895.00	153.00	424.00	15,100.00
1955	0.57	985.00	1,400.00	1,530.00	1,720.00	2,540.00	1,350.00	1,370.00	21.20	863.00	2,410.00	139.00	14,300.00
1956	5.64	929.00	1,660.00	1,020.00	1,670.00	2,610.00	2,270.00	716.00	13.30	245.00	0.43	0.00	11,100.00
1957	63.30	0.00	771.00	1,430.00	2,290.00	2,720.00	2,130.00	3,010.00	1,130.00	125.00	70.20	0.00	13,700.00
1958	1,880.00	1,810.00	1,750.00	1,280.00	2,050.00	2,430.00	3,750.00	3,910.00	507.00	29.90	0.19	1,150.00	20,600.00
1959	456.00	325.00	8.32	704.00	1,440.00	2,650.00	820.00	139.00	0.00	91.20	661.00	1,080.00	8,370.00
1960	531.00	1,350.00	1,230.00	1,560.00	1,810.00	2,930.00	2,090.00	1,150.00	18.50	55.90	140.00	791.00	13,700.00
1961	513.00	821.00	529.00	346.00	598.00	1,020.00	711.00	307.00	0.71	35.00	792.00	32.10	5,710.00
1962	341.00	658.00	1,630.00	1,570.00	1,720.00	2,480.00	2,870.00	1,580.00	209.00	1.95	0.00	550.00	13,600.00
1963	655.00	90.50	418.00	721.00	2,050.00	2,390.00	2,280.00	1,100.00	18.10	0.00	218.00	2,420.00	12,400.00
1964	1,170.00	1,850.00	1,510.00	1,180.00	1,810.00	2,140.00	3,370.00	1,970.00	74.80	406.00	74.30	643.00	16,200.00
1965	432.00	1,330.00	1,050.00	1,950.00	1,860.00	2,220.00	3,670.00	1,620.00	50.60	548.00	741.00	382.00	15,800.00
1966	75.10	1,150.00	1,830.00	1,760.00	1,850.00	2,890.00	2,240.00	226.00	8.93	200.00	59.10	352.00	12,700.00
1967	618.00	1,010.00	1,820.00	2,000.00	2,210.00	2,910.00	2,840.00	3,220.00	456.00	1,360.00	1,350.00	1,040.00	20,800.00
1968	61.30	870.00	1,630.00	1,700.00	1,680.00	1,920.00	2,150.00	798.00	27.70	1,390.00	401.00	5.64	12,600.00
1969	237.00	639.00	749.00	1,960.00	1,790.00	2,990.00	3,430.00	3,530.00	407.00	186.00	0.10	363.00	16,300.00
1970	134.00	1,470.00	499.00	1,300.00	774.00	2,990.00	2,200.00	465.00	6.57	479.00	2,030.00	226.00	12,600.00
1971	104.00	295.00	1,730.00	2,040.00	2,080.00	2,030.00	1,660.00	1,380.00	207.00	546.00	127.00	35.10	12,200.00
1972	977.00	396.00	1,150.00	1,850.00	2,160.00	969.00	440.00	318.00	1,470.00	82.10	472.00	457.00	10,700.00
1973	523.00	1,300.00	1,720.00	1,700.00	1,980.00	2,440.00	3,560.00	2,190.00	82.30	2.95	427.00	0.00	15,900.00
1974	252.00	788.00	1,550.00	1,790.00	2,040.00	2,700.00	2,270.00	346.00	3.71	678.00	327.00	0.00	12,700.00
1975	379.00	1,720.00	1,170.00	458.00	1,640.00	2,430.00	3,090.00	1,870.00	59.10	99.20	0.00	1,080.00	14,000.00
1976	611.00	432.00	1,640.00	224.00	1,940.00	2,800.00	2,500.00	1,650.00	48.10	417.00	45.20	3,480.00	15,800.00
1977	2,160.00	753.00	84.60	1,910.00	1,930.00	1,580.00	1,190.00	2,840.00	606.00	16.70	2,010.00	221.00	15,300.00
1978	134.00	306.00	842.00	1,930.00	2,130.00	3,340.00	3,540.00	3,790.00	617.00	543.00	80.70	587.00	17,800.00
1979	430.00	1,180.00	1,700.00	1,610.00	2,000.00	3,070.00	3,750.00	2,480.00	140.00	1,460.00	1,260.00	54.80	19,100.00
1980	1,020.00	738.00	717.00	1,890.00	2,440.00	2,890.00	3,960.00	3,700.00	1,230.00	137.00	2.03	0.00	18,700.00
1981	248.00	2.93	1,750.00	836.00	2,300.00	2,600.00	1,870.00	468.00	49.70	0.00	0.00	702.00	10,800.00
1982	320.00	249.00	997.00	1,810.00	2,230.00	2,810.00	3,740.00	2,820.00	209.00	1,410.00	1,480.00	1,320.00	19,400.00
1983	1,510.00	1,670.00	1,720.00	2,140.00	2,150.00	3,020.00	3,460.00	4,990.00	1,670.00	95.90	2,540.00	433.00	25,400.00
1984	508.00	1,340.00	1,900.00	2,200.00	1,970.00	1,630.00	885.00	138.00	98.40	1,280.00	1,170.00	619.00	13,700.00
1985	765.00	867.00	1,640.00	1,840.00	2,180.00	2,520.00	3,050.00	509.00	9.36	1,120.00	52.00	1,170.00	15,700.00
1986	1,130.00	1,180.00	2,050.00	1,780.00	2,260.00	3,400.00	2,770.00	492.00	11.20	1,080.00	501.00	761.00	17,400.00
1987	1,170.00	824.00	1,530.00	1,700.00	1,190.00	2,710.00	1,410.00	102.00	520.00	441.00	591.00	740.00	12,900.00
1988	2,170.00	2,090.00	1,420.00	1,920.00	1,990.00	1,230.00	1,840.00	894.00	29.10	0.00	948.00	86.30	14,600.00
1989	0.00	790.00	1,380.00	1,900.00	2,120.00	3,250.00	2,190.00	312.00	2.90	0.00	791.00	458.00	13,200.00
1990	498.00	253.00	303.00	1,740.00	2,000.00	2,470.00	1,500.00	497.00	447.00	1,200.00	524.00	979.00	12,400.00
1991	99.30	633.00	771.00	1,590.00	388.00	2,650.00	3,880.00	2,790.00	188.00	659.00	1,050.00	509.00	15,200.00
1992	348.00	763.00	1,140.00	2,020.00	2,340.00	2,960.00	3,300.00	660.00	11.30	169.00	1,540.00	35.60	15,300.00
1993	918.00	1,850.00	1,470.00	1,840.00	2,010.00	3,600.00	3,780.00	2,570.00	991.00	28.40	0.00	0.00	19,100.00
1994	155.00	1,350.00	1,310.00	530.00	1,950.00	3,210.00	2,680.00	1,110.00	16.90	14.40	817.00	12.40	13,200.00
1995	1,210.00	988.00	768.00	1,880.00	2,730.00	3,220.00	3,680.00	3,790.00	1,930.00	398.00	796.00	516.00	21,900.00
1996	2.27	27.90	963.00	1,090.00	2,420.00	3,280.00	3,330.00	630.00	15.70	70.20	389.00	28.80	12,300.00
1997	202.00	886.00	2,020.00	2,020.00	2,190.00	3,250.00	1,830.00	333.00	6.13	590.00	36.50	2,290.00	15,600.00
1998	1,090.00	1,380.00	1,770.00	2,030.00	1,890.00	3,140.00	3,750.00	4,180.00	2,290.00	236.00	1,230.00	78.00	23,100.00
Mean	569.00	948.00	1,250.00	1,550.00	1,910.00	2,580.00	2,550.00	1,670.00	339.00	452.00	605.00	551.00	15,000.00
Median	432.00	886.00	1,400.00	1,700.00	1,990.00	2,650.00	2,500.00	1,380.00	59.10	244.00	427.00	424.00	14,300.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total runoff from HRUs flowing to channel reach 1													
1950	17.70	32.60	40.00	100.00	424.00	238.00	146.00	78.50	40.50	22.40	12.10	10.30	1,160.00
1951	3.65	23.40	4.53	37.80	27.60	50.90	42.70	22.20	8.14	21.90	4.69	2.03	249.00
1952	11.70	9.89	801.00	2,920.00	856.00	2,310.00	1,140.00	668.00	345.00	200.00	103.00	53.90	9,420.00
1953	30.10	78.30	103.00	252.00	125.00	131.00	76.70	38.00	18.10	11.90	12.90	2.84	879.00
1954	2.16	9.60	11.30	294.00	389.00	799.00	711.00	366.00	191.00	114.00	57.10	34.30	2,980.00
1955	16.50	20.90	24.70	127.00	150.00	206.00	99.50	65.70	28.20	27.20	44.80	7.57	819.00
1956	4.25	17.70	45.50	241.00	270.00	147.00	103.00	54.70	26.40	15.60	8.08	4.17	937.00
1957	2.45	1.25	9.67	300.00	254.00	267.00	142.00	128.00	62.60	30.20	16.20	8.35	1,220.00
1958	35.00	42.50	62.20	65.60	427.00	1,760.00	2,770.00	862.00	450.00	251.00	134.00	86.50	6,950.00
1959	40.40	21.70	11.50	14.60	257.00	151.00	77.80	42.90	22.40	12.50	11.10	16.80	679.00
1960	10.30	16.90	64.80	177.00	387.00	368.00	189.00	101.00	52.40	29.20	15.90	15.10	1,430.00
1961	8.88	10.60	2.50	12.50	1.10	15.10	1.61	2.24	0.34	0.19	5.34	0.00	60.90
1962	1.79	14.90	48.40	53.50	361.00	638.00	311.00	184.00	91.80	51.10	27.30	21.50	1,800.00
1963	12.10	4.20	5.97	6.36	63.10	40.70	45.80	15.20	8.01	4.57	2.34	38.70	247.00
1964	14.60	67.80	24.40	75.00	38.40	108.00	207.00	114.00	56.30	36.70	16.90	17.80	778.00
1965	5.90	31.70	59.10	74.80	71.10	69.30	482.00	228.00	119.00	74.10	38.30	20.40	1,270.00
1966	10.40	1,260.00	1,270.00	914.00	942.00	518.00	273.00	152.00	79.50	44.40	23.70	14.30	5,500.00
1967	9.73	17.50	3,970.00	764.00	458.00	497.00	444.00	295.00	153.00	103.00	58.80	34.30	6,810.00
1968	13.70	29.20	91.80	60.50	37.10	45.40	44.90	18.70	5.06	20.10	1.78	0.78	369.00
1969	0.46	8.42	31.70	2,430.00	4,260.00	2,610.00	1,220.00	671.00	346.00	193.00	103.00	56.80	11,900.00
1970	30.20	33.00	12.80	25.10	14.20	422.00	127.00	68.10	35.50	23.20	35.00	5.80	832.00
1971	3.26	41.70	448.00	606.00	266.00	183.00	104.00	66.60	28.30	20.30	8.47	4.26	1,780.00
1972	14.00	3.61	263.00	256.00	157.00	85.50	49.40	25.40	25.60	7.60	12.50	2.34	902.00
1973	1.25	51.70	225.00	237.00	530.00	1,230.00	777.00	427.00	222.00	124.00	67.50	34.60	3,920.00
1974	20.60	39.50	22.00	453.00	169.00	228.00	154.00	74.10	38.70	27.80	11.90	5.96	1,240.00
1975	32.60	16.60	23.50	4.62	25.50	167.00	239.00	133.00	67.30	37.50	20.10	20.50	788.00
1976	12.10	27.50	12.10	4.66	370.00	411.00	185.00	121.00	53.90	32.70	16.20	147.00	1,390.00
1977	60.20	34.50	40.50	168.00	62.00	60.60	23.60	74.00	21.60	12.10	33.60	4.51	596.00
1978	2.39	3.80	113.00	2,050.00	2,040.00	3,990.00	1,510.00	867.00	443.00	254.00	132.00	72.80	11,500.00
1979	40.80	87.80	346.00	732.00	1,330.00	1,590.00	1,070.00	527.00	275.00	174.00	92.70	43.50	6,300.00
1980	47.60	12.70	18.50	977.00	5,970.00	3,330.00	1,240.00	790.00	399.00	223.00	119.00	62.20	13,200.00
1981	36.40	18.30	50.40	38.00	70.00	77.30	46.60	26.00	12.00	6.85	3.69	10.90	396.00
1982	2.30	14.40	10.40	866.00	1,440.00	1,250.00	1,260.00	573.00	299.00	184.00	107.00	70.60	6,080.00
1983	38.70	112.00	649.00	856.00	1,740.00	3,810.00	2,130.00	1,710.00	768.00	429.00	265.00	126.00	12,600.00
1984	72.90	361.00	1,010.00	662.00	294.00	172.00	96.00	50.20	26.30	26.10	17.00	9.09	2,790.00
1985	11.50	16.00	235.00	251.00	352.00	284.00	202.00	109.00	56.90	44.80	17.50	24.10	1,600.00
1986	14.10	80.70	239.00	114.00	256.00	655.00	358.00	200.00	104.00	71.80	34.80	37.30	2,160.00
1987	15.20	19.40	31.10	53.50	41.20	70.20	38.80	20.30	15.10	12.40	7.31	8.38	333.00
1988	41.20	52.60	50.80	122.00	116.00	72.20	55.80	25.60	12.10	6.71	8.97	2.04	566.00
1989	1.18	18.90	53.80	212.00	630.00	357.00	203.00	113.00	59.00	32.90	26.90	11.20	1,720.00
1990	7.99	5.47	2.34	90.60	165.00	120.00	70.40	43.10	18.20	23.60	10.30	14.10	572.00
1991	1.83	12.40	3.83	22.20	50.90	2,640.00	952.00	483.00	251.00	156.00	76.70	44.10	4,690.00
1992	35.90	11.50	35.10	109.00	323.00	369.00	353.00	185.00	96.30	53.70	46.90	15.30	1,630.00
1993	46.30	34.40	81.30	6,560.00	4,000.00	1,870.00	1,050.00	574.00	305.00	165.00	88.40	46.10	14,800.00
1994	25.80	49.90	22.60	17.70	268.00	224.00	151.00	81.40	42.00	23.70	19.10	6.69	932.00
1995	16.60	10.50	11.90	1,600.00	1,170.00	5,980.00	1,160.00	748.00	386.00	212.00	123.00	60.20	11,500.00
1996	32.90	17.20	23.90	36.30	312.00	759.00	378.00	209.00	109.00	61.10	36.90	17.00	1,990.00
1997	11.60	87.70	439.00	1,590.00	860.00	645.00	328.00	182.00	94.40	58.40	28.30	57.40	4,380.00
1998	14.90	52.40	105.00	318.00	2,700.00	2,010.00	1,770.00	1,080.00	565.00	315.00	178.00	88.20	9,210.00
Mean	19.30	62.20	230.00	570.00	725.00	899.00	502.00	279.00	141.00	83.30	47.80	30.60	3,590.00
Median	14.00	20.90	45.50	177.00	294.00	357.00	203.00	121.00	59.00	36.70	26.90	17.00	1,600.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Land-surface infiltration in the HRUs for channel reach 1													
1950	0.00	0.37	0.95	5.79	32.10	0.88	0.24	0.00	0.00	0.00	0.00	0.00	40.40
1951	0.00	0.38	0.00	1.12	0.14	1.39	0.52	0.00	0.00	0.00	0.00	0.00	3.91
1952	0.00	0.01	79.50	169.00	14.20	208.00	37.20	0.00	0.00	0.00	0.00	0.00	509.00
1953	0.00	3.41	6.52	9.61	0.23	1.42	0.05	0.00	0.00	0.00	0.00	0.00	21.30
1954	0.00	0.00	0.00	34.70	19.40	79.90	0.00	0.00	0.00	0.00	0.00	0.00	134.00
1955	0.00	0.00	0.21	9.30	11.40	0.00	0.00	0.05	0.00	0.00	0.73	0.00	21.70
1956	0.00	0.01	1.44	28.40	8.53	0.00	0.51	0.00	0.00	0.00	0.00	0.00	38.70
1957	0.00	0.00	0.00	38.60	1.91	5.00	0.14	2.00	0.05	0.00	0.00	0.00	47.90
1958	0.39	0.92	1.05	1.51	36.50	144.00	181.00	0.00	0.00	0.00	0.00	0.00	365.00
1959	0.00	0.00	0.00	0.00	28.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.10
1960	0.00	0.22	3.65	12.50	30.40	3.58	0.30	0.00	0.00	0.00	0.00	0.00	50.70
1961	0.00	0.00	0.00	0.01	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.22
1962	0.00	0.16	1.79	1.32	42.40	22.50	0.00	0.06	0.00	0.00	0.00	0.00	68.40
1963	0.00	0.00	0.00	0.00	2.68	0.43	0.57	0.00	0.00	0.00	0.00	0.73	4.14
1964	0.00	3.03	0.01	3.80	0.06	5.72	8.34	0.21	0.00	0.00	0.00	0.00	21.30
1965	0.00	0.63	4.14	2.98	1.02	0.70	34.20	0.00	0.00	0.00	0.00	0.00	43.90
1966	0.00	95.00	117.00	18.50	45.60	3.19	0.00	0.00	0.00	0.00	0.00	0.00	280.00
1967	0.00	0.16	175.00	60.40	0.00	22.30	14.90	0.80	0.00	0.00	0.00	0.00	274.00
1968	0.00	0.48	5.20	0.34	0.06	0.22	0.10	0.00	0.00	0.00	0.00	0.00	6.60
1969	0.00	0.00	1.06	206.00	358.00	91.30	25.10	3.41	0.00	0.00	0.00	0.00	684.00
1970	0.00	0.21	0.00	0.47	0.00	35.20	0.05	0.00	0.00	0.00	0.00	0.00	36.00
1971	0.00	4.73	45.30	31.10	0.92	0.30	0.06	0.05	0.00	0.00	0.00	0.00	82.60
1972	0.01	0.00	40.50	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.70
1973	0.00	2.49	15.10	9.70	41.50	96.80	0.25	0.05	0.00	0.00	0.00	0.00	166.00
1974	0.00	0.80	0.39	39.60	0.00	4.27	0.82	0.00	0.00	0.00	0.00	0.00	45.90
1975	1.78	0.00	0.06	0.00	0.47	12.90	9.00	0.00	0.00	0.00	0.00	0.00	24.30
1976	0.00	0.79	0.01	0.00	33.40	21.10	0.31	0.10	0.00	0.00	0.00	7.89	63.90
1977	0.00	0.00	0.00	13.40	0.06	0.26	0.00	2.55	0.00	0.00	0.06	0.00	16.70
1978	0.00	0.00	14.70	182.00	180.00	277.00	37.80	5.06	0.00	0.00	0.00	0.00	697.00
1979	0.00	4.58	29.50	75.60	89.10	113.00	0.00	0.05	0.00	0.00	0.01	0.00	312.00
1980	0.00	0.00	0.01	114.00	449.00	166.00	17.00	6.80	0.00	0.00	0.00	0.00	753.00
1981	0.00	0.00	1.37	1.05	3.03	1.40	0.06	0.00	0.00	0.00	0.00	0.00	6.85
1982	0.00	0.16	0.00	83.40	82.80	113.00	35.30	0.00	0.00	0.21	0.21	0.46	316.00
1983	0.00	9.08	54.10	94.30	162.00	297.00	145.00	17.60	0.00	0.00	0.90	0.00	781.00
1984	0.00	40.70	78.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119.00
1985	0.00	0.21	26.40	5.44	13.90	5.08	0.24	0.00	0.00	0.01	0.00	0.01	51.40
1986	0.00	9.67	11.60	0.14	14.40	42.60	0.18	0.00	0.00	0.00	0.00	0.22	79.30
1987	0.00	0.00	0.62	1.70	1.42	2.01	0.06	0.00	0.00	0.00	0.00	0.00	5.85
1988	1.12	1.34	0.43	3.66	1.36	0.11	0.47	0.00	0.00	0.00	0.00	0.00	8.76
1989	0.00	0.00	2.70	17.00	43.60	6.07	0.00	0.00	0.00	0.00	0.00	0.00	69.10
1990	0.00	0.00	0.00	6.38	9.93	0.07	0.00	0.00	0.00	0.00	0.00	0.00	16.50
1991	0.00	0.00	0.00	0.22	1.05	232.00	0.00	0.40	0.00	0.00	0.00	0.00	233.00
1992	0.00	0.00	0.22	6.95	23.10	13.60	2.95	0.00	0.00	0.00	0.00	0.00	47.00
1993	2.46	0.00	4.41	503.00	312.00	51.10	0.00	0.45	0.05	0.00	0.00	0.00	873.00
1994	0.00	1.53	0.00	0.00	25.80	3.66	0.63	0.00	0.00	0.00	0.00	0.00	31.60
1995	0.00	0.00	0.16	165.00	62.40	350.00	16.90	10.30	0.35	0.00	0.00	0.00	605.00
1996	0.00	0.00	0.16	0.70	44.70	34.50	0.82	0.00	0.00	0.00	0.00	0.00	81.20
1997	0.00	5.66	45.20	160.00	13.00	0.00	0.45	0.00	0.00	0.00	0.00	1.05	225.00
1998	0.00	1.29	4.93	19.70	253.00	135.00	47.70	24.20	0.19	0.00	0.00	0.00	486.00
Mean	0.12	3.84	15.80	43.60	51.00	53.20	12.60	1.51	0.01	0.00	0.04	0.21	182.00
Median	0.00	0.16	1.05	6.95	13.90	5.08	0.25	0.00	0.00	0.00	0.00	0.00	51.40

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Measured rainfall for channel reach 1													
1950	0.28	2.19	5.76	3.27	11.40	1.81	2.22	0.52	0.00	0.02	0.03	0.20	27.70
1951	0.02	1.56	0.02	6.66	1.12	2.05	5.43	0.22	0.00	0.79	0.23	0.04	18.10
1952	0.30	0.99	59.60	51.20	7.93	68.70	29.90	0.00	0.22	2.09	0.02	0.06	221.00
1953	0.00	10.40	4.28	4.46	1.85	4.14	1.48	0.88	0.00	0.15	0.00	0.00	27.60
1954	0.03	0.15	0.00	23.10	9.49	46.20	0.66	0.07	0.15	1.46	0.16	0.37	81.80
1955	0.00	0.54	0.42	5.17	9.68	0.06	0.64	2.11	0.00	0.43	1.03	0.00	20.10
1956	0.00	0.19	2.46	27.20	2.12	0.00	3.23	0.42	0.00	0.14	0.00	0.00	35.80
1957	0.00	0.00	0.23	15.60	1.95	4.91	3.01	7.18	0.72	0.07	0.03	0.00	33.70
1958	1.63	2.05	4.71	7.67	19.60	66.70	57.20	1.96	0.00	0.00	0.00	1.69	163.00
1959	0.25	0.27	0.00	0.76	16.90	0.00	0.33	0.11	0.00	0.06	0.38	0.00	19.00
1960	0.41	0.58	3.76	6.94	11.70	3.07	3.85	0.37	0.00	0.03	0.08	0.08	30.80
1961	0.18	0.43	0.07	2.04	0.00	0.37	0.00	0.05	0.00	0.00	0.26	0.00	3.40
1962	0.02	1.50	2.32	6.37	20.70	12.40	0.00	3.52	0.20	0.00	0.00	0.28	47.30
1963	0.71	0.02	0.08	0.37	4.88	0.69	1.57	0.00	0.00	0.00	0.03	7.69	16.00
1964	1.84	6.91	0.14	9.09	0.64	14.60	6.30	2.44	0.00	0.28	0.00	0.36	42.60
1965	0.02	3.17	9.81	0.79	1.85	2.63	26.60	0.03	0.00	0.65	0.26	0.46	46.20
1966	0.03	63.20	36.20	6.71	17.80	3.66	0.51	0.03	0.00	0.17	0.04	0.23	129.00
1967	0.43	2.51	62.70	15.20	0.00	14.00	15.60	1.04	0.07	1.85	1.32	0.59	115.00
1968	0.00	0.63	5.04	2.78	0.54	4.54	1.18	0.28	0.00	0.46	0.02	0.00	15.50
1969	0.00	0.00	1.60	97.50	104.00	27.80	11.40	7.68	0.00	0.31	0.00	0.43	251.00
1970	0.11	1.35	0.16	2.95	0.51	34.60	1.06	0.00	0.00	0.26	1.17	0.00	42.20
1971	0.00	5.65	13.90	5.50	2.18	1.17	2.95	2.21	0.00	0.04	0.00	0.02	33.70
1972	1.69	0.05	22.30	0.07	2.26	0.00	0.40	0.20	1.75	0.02	0.07	0.00	28.80
1973	0.07	2.67	10.80	3.79	23.80	53.00	2.14	1.20	0.00	0.00	0.42	0.00	98.00
1974	0.17	2.19	0.44	18.70	0.40	6.09	2.46	0.07	0.00	0.59	0.13	0.00	31.30
1975	5.00	0.16	1.71	0.03	2.83	9.63	6.35	0.77	0.00	0.06	0.00	0.51	27.10
1976	0.16	6.19	0.14	0.00	17.70	10.50	2.76	1.95	0.01	0.61	0.00	21.90	61.90
1977	0.21	0.67	0.83	4.61	1.27	2.55	0.18	7.20	0.11	0.00	2.64	0.00	20.30
1978	0.04	0.00	9.08	68.90	62.00	86.90	26.80	5.61	0.00	1.27	0.00	0.78	261.00
1979	0.43	7.65	18.10	26.60	39.50	69.50	0.00	1.79	0.00	3.58	1.95	0.01	169.00
1980	1.13	0.07	0.88	48.70	134.00	54.80	18.90	12.00	0.02	0.11	0.00	0.00	270.00
1981	0.23	0.00	7.22	2.40	1.39	2.73	1.04	0.49	0.00	0.00	0.00	0.20	15.70
1982	0.01	1.94	0.52	32.00	30.70	58.20	17.50	0.96	0.00	2.76	4.34	5.71	155.00
1983	0.52	16.00	12.80	40.50	66.30	94.30	60.80	7.68	0.00	0.00	10.20	0.56	310.00
1984	0.48	17.40	29.30	0.00	0.07	0.28	1.14	0.03	0.05	1.04	0.49	0.10	50.30
1985	0.22	1.38	15.60	2.77	5.33	11.30	1.33	0.00	0.00	2.36	0.00	1.53	41.80
1986	0.46	8.90	3.84	1.72	5.75	23.90	1.07	0.00	0.00	3.14	0.23	4.77	53.80
1987	0.24	0.32	2.90	0.52	7.04	3.01	0.51	0.04	0.56	0.03	0.15	0.07	15.40
1988	7.91	4.20	1.62	6.58	1.22	1.41	3.90	0.30	0.00	0.00	0.53	0.01	27.70
1989	0.00	0.21	0.50	0.95	26.80	8.23	0.00	0.32	0.00	0.00	0.48	0.13	37.60
1990	0.21	0.05	0.04	7.57	8.53	0.85	1.24	0.51	0.10	2.08	0.52	0.31	22.00
1991	0.06	0.11	0.28	4.09	13.20	110.00	0.66	1.43	0.00	2.25	0.35	0.48	133.00
1992	0.65	0.04	4.73	6.88	12.00	9.23	2.46	0.27	0.00	0.17	2.75	0.00	39.10
1993	6.52	0.00	6.18	166.00	87.50	24.40	0.00	3.78	3.44	0.00	0.00	0.00	298.00
1994	0.12	4.86	0.45	0.28	13.60	4.83	3.96	0.14	0.00	0.01	1.34	0.00	29.60
1995	1.17	0.17	2.11	68.10	24.20	137.00	14.90	19.00	3.24	0.62	1.27	0.57	272.00
1996	0.00	0.02	2.42	1.12	29.70	13.60	3.19	0.03	0.00	0.06	0.28	0.00	50.40
1997	0.10	17.40	12.40	62.00	11.20	0.00	1.74	0.44	0.00	1.27	0.00	6.32	113.00
1998	0.09	3.18	5.11	14.50	103.00	60.30	22.60	34.50	1.95	0.24	3.52	0.09	249.00
Mean	0.70	4.08	7.87	18.20	20.00	23.90	7.62	2.69	0.26	0.64	0.75	1.15	87.80
Median	0.18	0.99	2.46	6.37	9.49	8.23	2.22	0.49	0.00	0.17	0.15	0.09	42.20

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total simulated evaporation for channel reach 1													
1950	2.62	2.38	1.98	2.97	10.50	8.31	9.40	7.82	7.08	6.54	3.88	2.65	66.10
1951	1.00	2.36	0.79	1.97	1.95	3.53	4.56	4.14	2.18	8.79	2.14	1.14	34.60
1952	1.48	1.13	3.74	22.30	25.60	35.40	54.60	59.30	24.00	24.90	15.80	8.61	277.00
1953	4.67	3.69	3.22	6.66	4.07	5.81	6.05	4.74	4.35	4.99	4.64	1.10	54.00
1954	0.71	1.28	0.69	4.92	10.40	18.00	41.50	21.90	17.00	18.40	8.60	6.20	150.00
1955	2.63	2.15	1.63	3.69	4.83	7.39	6.49	6.71	5.60	6.95	11.00	2.02	61.10
1956	0.93	1.34	2.20	4.14	5.40	6.59	6.84	6.94	5.98	4.88	2.28	1.48	49.00
1957	0.59	0.34	0.69	5.68	7.25	9.41	8.24	11.30	11.20	8.16	4.94	2.52	70.40
1958	3.50	2.93	3.07	3.08	10.60	27.70	57.60	72.20	35.70	25.10	18.30	11.60	271.00
1959	5.42	2.21	1.53	1.30	6.04	7.07	7.03	5.60	5.85	4.56	4.80	3.27	54.70
1960	1.60	1.55	2.66	4.05	7.28	12.30	10.60	9.62	9.50	8.12	4.38	3.92	75.60
1961	1.44	1.20	0.47	1.05	0.30	2.03	0.74	1.07	0.25	0.13	2.24	0.08	11.00
1962	0.45	1.22	2.10	2.47	7.78	20.00	15.20	12.80	11.90	10.10	7.23	5.42	96.70
1963	2.28	0.87	0.77	0.62	3.37	3.75	5.09	3.33	2.52	2.14	1.32	6.04	32.10
1964	2.23	3.84	1.65	3.09	2.22	5.53	9.78	10.00	8.74	9.78	3.85	3.45	64.20
1965	1.49	2.30	1.85	3.12	3.38	4.55	24.30	14.10	11.40	12.90	8.25	3.66	91.20
1966	2.33	10.70	20.80	19.40	22.90	20.90	14.60	14.20	12.70	10.70	7.36	4.52	161.00
1967	2.37	1.76	23.00	15.20	16.80	20.10	19.60	19.50	15.10	19.80	14.20	6.85	174.00
1968	2.84	2.57	3.11	2.79	2.98	3.72	4.27	3.48	2.00	7.96	1.07	0.54	37.30
1969	0.31	0.81	1.40	11.20	26.60	45.10	56.70	60.00	25.80	25.00	18.40	10.40	282.00
1970	3.84	3.30	1.43	2.17	1.35	12.20	7.73	8.66	7.61	7.29	9.70	1.73	67.00
1971	0.80	1.67	6.80	11.60	7.28	8.00	7.56	9.04	6.33	7.09	3.25	1.63	71.00
1972	1.42	0.73	4.15	5.50	5.83	6.59	5.50	5.06	7.18	3.11	4.11	1.17	50.30
1973	0.62	2.61	4.70	5.24	13.80	31.30	42.90	31.40	22.50	17.70	11.90	5.62	190.00
1974	3.24	2.57	1.68	7.72	5.20	8.66	9.53	8.81	8.12	7.81	3.48	1.89	68.70
1975	2.13	1.64	1.63	0.72	2.14	7.33	10.00	11.90	9.98	8.83	5.34	5.09	66.80
1976	1.86	1.69	1.27	0.78	7.93	11.00	9.57	12.40	9.54	8.56	3.87	12.90	81.40
1977	5.21	2.94	1.41	5.13	3.51	4.10	3.43	7.38	5.67	4.02	8.25	1.48	52.50
1978	0.83	0.72	3.04	23.00	31.10	50.30	54.40	73.80	46.10	29.50	18.00	8.75	339.00
1979	4.59	3.94	6.16	12.20	26.80	44.10	56.60	40.80	25.40	23.60	14.20	8.12	267.00
1980	4.78	1.57	2.18	11.10	33.90	43.10	64.10	62.40	36.30	29.30	17.40	10.20	316.00
1981	5.47	2.28	2.92	2.46	3.98	5.10	5.52	5.42	3.93	2.97	1.88	3.32	45.30
1982	0.70	0.79	0.92	12.20	25.10	32.20	55.40	42.70	21.40	24.30	17.00	9.20	242.00
1983	4.20	3.80	11.00	13.00	32.10	45.00	52.20	93.70	84.40	47.90	28.90	15.20	431.00
1984	6.71	7.21	11.40	18.80	7.70	8.40	7.93	9.13	6.66	9.14	5.69	3.10	102.00
1985	1.53	1.63	5.18	5.66	8.57	9.44	12.60	10.90	10.60	11.20	3.82	3.62	84.70
1986	2.84	2.87	6.21	5.01	9.76	26.90	18.40	15.70	14.70	13.60	8.86	4.73	130.00
1987	2.48	1.94	1.65	2.37	2.33	4.96	5.16	4.55	4.99	4.38	3.24	4.16	42.20
1988	3.98	4.08	2.52	4.29	5.08	5.26	5.98	4.31	3.10	2.95	4.43	1.02	47.00
1989	0.58	1.43	1.53	4.71	13.30	13.00	13.60	11.50	10.40	9.12	6.95	3.03	89.20
1990	1.71	1.00	0.54	3.19	5.95	6.73	7.00	6.84	4.78	9.58	4.42	3.91	55.70
1991	0.95	1.16	0.50	1.70	1.19	33.60	50.40	30.10	21.50	19.90	15.10	8.69	185.00
1992	4.82	1.80	2.37	3.90	9.77	12.70	20.80	15.80	12.60	10.90	11.90	3.93	111.00
1993	4.93	2.95	3.12	24.10	29.80	54.90	68.20	55.40	28.30	20.30	14.90	8.47	315.00
1994	4.21	3.31	1.87	1.68	7.22	9.85	10.10	8.75	9.18	6.94	6.95	1.88	72.00
1995	2.61	1.14	1.20	20.60	36.20	47.50	59.40	59.80	33.50	26.20	20.30	10.40	319.00
1996	4.83	2.41	2.00	1.90	8.70	30.10	19.60	16.60	15.00	13.40	9.72	3.85	128.00
1997	2.42	3.69	8.35	24.40	26.90	33.10	15.80	18.60	13.10	12.50	7.97	10.60	177.00
1998	2.53	3.26	3.66	7.29	23.60	47.40	57.90	68.70	58.20	33.10	25.00	10.70	341.00
Mean	2.61	2.38	3.65	7.39	11.80	18.80	22.90	22.40	15.50	13.20	9.00	5.18	135.00
Median	2.37	2.15	2.10	4.71	7.70	11.00	10.60	11.50	10.40	9.58	7.23	3.92	84.70

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Streamflow out of channel reach 1													
1950	5.13	13.50	16.30	33.20	82.00	25.50	17.00	6.79	3.01	1.47	0.76	2.41	207.00
1951	0.23	9.73	0.34	17.60	8.51	9.80	13.80	4.05	0.52	8.72	1.01	0.38	74.70
1952	5.63	4.47	4,890.00	7,410.00	467.00	7,180.00	1,560.00	276.00	41.80	23.30	10.00	5.21	21,900.00
1953	2.92	25.20	22.70	34.70	14.50	19.30	13.60	4.72	1.21	1.37	3.98	0.16	144.00
1954	0.42	4.45	5.36	88.70	111.00	982.00	278.00	44.30	17.00	12.90	4.83	4.75	1,550.00
1955	1.40	6.99	10.00	32.40	32.30	19.40	10.50	10.30	2.00	6.81	17.10	0.53	150.00
1956	0.31	7.85	15.40	369.00	32.90	12.90	16.20	6.09	1.87	1.32	0.52	0.25	464.00
1957	0.16	0.08	4.58	63.20	27.60	34.60	16.30	27.00	8.34	2.04	1.04	0.55	186.00
1958	14.30	12.00	17.60	19.40	100.00	5,030.00	9,760.00	452.00	78.90	24.10	12.50	14.90	15,500.00
1959	4.18	2.56	1.07	4.86	55.20	12.90	6.75	3.34	1.51	0.74	2.47	6.87	102.00
1960	4.35	6.85	24.70	29.20	61.00	49.80	23.20	8.69	3.95	1.98	1.12	4.03	219.00
1961	2.50	4.43	0.68	6.13	0.09	7.26	0.16	0.77	0.01	0.01	2.65	0.01	24.70
1962	0.90	7.28	14.70	17.10	95.20	186.00	31.40	20.00	7.47	3.82	1.90	4.71	391.00
1963	2.69	0.32	2.05	2.72	46.50	13.20	16.00	1.11	0.46	0.20	0.09	18.30	104.00
1964	5.80	25.80	2.32	23.60	4.61	30.90	30.70	12.90	4.01	4.65	1.09	5.19	152.00
1965	0.81	13.10	23.00	10.90	14.00	15.00	131.00	18.60	9.34	8.75	3.81	2.25	250.00
1966	0.72	3,820.00	742.00	559.00	635.00	130.00	27.20	14.60	7.21	3.75	1.86	1.99	5,950.00
1967	1.99	7.07	23,000.00	920.00	148.00	129.00	131.00	44.90	14.70	16.60	10.40	7.38	24,400.00
1968	1.20	11.00	24.30	10.50	4.54	12.60	19.50	5.18	0.27	8.57	0.07	0.03	97.90
1969	0.02	4.18	14.40	11,100.00	22,100.00	11,000.00	2,920.00	290.00	43.50	20.00	10.30	6.77	47,500.00
1970	3.12	9.85	2.46	9.23	4.45	104.00	13.80	5.43	2.58	2.94	12.90	0.39	172.00
1971	0.22	19.80	141.00	121.00	27.70	20.10	13.40	11.20	2.14	3.30	0.53	0.28	361.00
1972	5.85	0.96	62.70	23.80	18.90	7.18	6.12	2.10	7.01	0.43	4.50	0.18	140.00
1973	0.13	18.30	40.70	37.50	206.00	839.00	333.00	70.40	19.80	10.60	6.14	2.91	1,580.00
1974	2.25	14.00	3.20	90.70	14.60	34.50	22.80	5.80	2.75	4.53	0.93	0.38	196.00
1975	14.40	1.50	8.84	0.37	10.20	39.80	32.40	12.70	5.01	2.54	1.31	5.76	135.00
1976	3.19	12.90	1.82	0.36	76.50	56.60	20.70	17.60	4.11	3.37	1.16	47.90	246.00
1977	5.32	4.47	10.90	31.10	7.89	14.90	1.81	23.10	1.44	0.71	13.80	0.29	116.00
1978	0.16	1.34	36.10	3,880.00	4,570.00	21,100.00	5,090.00	720.00	92.40	28.70	13.20	8.95	35,500.00
1979	5.10	25.90	65.80	242.00	2,350.00	4,100.00	1,810.00	141.00	26.10	24.50	12.70	3.78	8,800.00
1980	14.30	1.19	6.43	2,220.00	38,700.00	17,600.00	3,370.00	555.00	80.10	23.20	12.20	6.30	62,600.00
1981	4.51	1.89	17.30	15.00	23.40	17.90	6.23	3.04	0.73	0.35	0.16	4.57	95.00
1982	0.66	7.20	4.60	1,130.00	3,060.00	1,500.00	2,340.00	163.00	29.20	24.00	16.80	15.70	8,280.00
1983	7.08	115.00	303.00	1,240.00	4,070.00	15,800.00	8,780.00	5,620.00	407.00	80.70	39.80	12.90	36,500.00
1984	8.53	159.00	3,200.00	285.00	27.80	16.10	11.30	4.18	2.01	6.71	4.91	2.62	3,730.00
1985	4.86	7.41	51.90	27.90	57.90	43.40	21.90	8.84	4.22	8.67	1.25	8.22	246.00
1986	4.76	32.90	29.40	17.60	344.00	264.00	56.10	16.60	8.16	11.20	3.78	11.80	801.00
1987	2.83	7.40	12.50	17.00	14.70	16.10	4.15	1.35	2.83	3.47	2.06	3.36	87.70
1988	17.40	14.10	14.50	26.80	15.20	8.46	12.60	2.87	0.79	0.34	2.69	0.09	116.00
1989	0.05	9.57	21.80	30.10	640.00	48.40	18.10	9.55	4.59	2.30	5.91	1.69	792.00
1990	1.81	1.67	0.59	30.80	31.00	11.50	9.47	6.87	1.20	7.01	2.49	5.68	110.00
1991	0.16	5.79	1.59	10.10	84.30	6,570.00	593.00	87.40	24.60	19.80	9.06	5.95	7,410.00
1992	9.26	1.08	15.40	22.70	75.30	69.10	60.90	15.20	7.56	3.94	11.10	1.06	293.00
1993	18.90	3.96	28.20	39,200.00	21,300.00	8,030.00	2,270.00	208.00	39.00	17.90	9.21	4.75	71,100.00
1994	2.71	15.80	5.18	5.48	55.50	32.60	20.30	6.57	2.97	1.51	3.98	0.44	153.00
1995	6.75	4.41	5.46	2,300.00	1,340.00	43,200.00	2,750.00	482.00	71.60	22.90	16.80	6.70	50,200.00
1996	3.32	1.75	8.06	15.00	82.20	242.00	51.50	18.00	8.89	4.57	4.53	1.27	441.00
1997	1.84	30.60	69.10	2,450.00	423.00	219.00	36.60	17.10	8.33	7.26	2.18	21.70	3,280.00
1998	1.29	22.00	20.40	58.10	9,680.00	6,530.00	5,790.00	1,690.00	229.00	31.80	21.00	8.47	24,100.00
Mean	4.21	92.60	674.00	1,520.00	2,270.00	3,090.00	991.00	228.00	27.40	10.40	6.62	5.73	8,920.00
Median	4.19	94.30	688.00	1,550.00	2,320.00	3,150.00	1,010.00	233.00	27.90	10.60	6.75	5.80	9,100.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Channel infiltration for channel reach 1													
1950	64.10	169.00	204.00	358.00	1,030.00	319.00	213.00	84.90	37.60	18.40	9.50	30.20	2,530.00
1951	2.93	122.00	4.28	220.00	106.00	122.00	173.00	50.60	6.52	109.00	12.60	4.72	934.00
1952	70.40	55.80	1,750.00	11,100.00	5,480.00	12,000.00	7,820.00	3,450.00	522.00	291.00	125.00	65.20	42,700.00
1953	36.50	314.00	284.00	434.00	181.00	241.00	170.00	59.10	15.10	17.20	49.70	1.95	1,810.00
1954	5.27	55.60	67.00	874.00	901.00	3,190.00	3,360.00	554.00	213.00	162.00	60.30	59.30	9,500.00
1955	17.40	87.30	125.00	405.00	403.00	242.00	132.00	129.00	25.00	85.20	214.00	6.58	1,870.00
1956	3.82	98.10	192.00	1,080.00	411.00	161.00	202.00	76.10	23.30	16.50	6.48	3.06	2,270.00
1957	1.94	0.99	57.20	790.00	345.00	432.00	204.00	338.00	104.00	25.50	13.00	6.83	2,320.00
1958	179.00	151.00	219.00	242.00	1,250.00	7,620.00	13,000.00	5,080.00	986.00	302.00	156.00	186.00	29,400.00
1959	52.30	32.00	13.40	60.70	690.00	162.00	84.40	41.80	18.90	9.23	30.90	85.90	1,280.00
1960	54.40	85.70	309.00	364.00	763.00	623.00	290.00	109.00	49.30	24.80	14.00	50.40	2,740.00
1961	31.30	55.30	8.49	76.60	1.07	90.70	1.96	9.61	0.18	0.10	33.10	0.06	309.00
1962	11.20	91.10	184.00	214.00	1,190.00	2,330.00	393.00	251.00	93.40	47.80	23.70	58.90	4,890.00
1963	33.70	4.03	25.70	34.00	273.00	165.00	200.00	13.80	5.78	2.52	1.18	229.00	988.00
1964	72.60	322.00	29.00	295.00	57.60	387.00	384.00	162.00	50.20	58.10	13.70	64.90	1,900.00
1965	10.10	164.00	287.00	137.00	175.00	187.00	1,630.00	232.00	117.00	109.00	47.60	28.10	3,130.00
1966	8.95	4,180.00	5,200.00	4,360.00	4,980.00	1,630.00	340.00	183.00	90.10	46.90	23.30	24.90	21,100.00
1967	24.80	88.40	10,000.00	2,920.00	1,850.00	1,610.00	1,640.00	562.00	183.00	208.00	130.00	92.20	19,300.00
1968	15.00	138.00	304.00	131.00	56.80	158.00	191.00	64.70	3.42	107.00	0.93	0.37	1,170.00
1969	0.26	52.20	181.00	5,770.00	13,900.00	14,100.00	8,250.00	3,630.00	544.00	250.00	128.00	84.60	46,800.00
1970	39.10	123.00	30.70	115.00	55.70	902.00	173.00	67.90	32.20	36.70	161.00	4.83	1,740.00
1971	2.78	247.00	1,200.00	1,520.00	347.00	251.00	167.00	140.00	26.80	41.20	6.61	3.49	3,950.00
1972	73.10	12.00	783.00	298.00	237.00	89.80	76.50	26.30	87.60	5.36	56.30	2.23	1,750.00
1973	1.59	229.00	508.00	469.00	2,130.00	6,110.00	4,050.00	880.00	247.00	133.00	76.70	36.40	14,900.00
1974	28.10	175.00	40.00	1,130.00	182.00	431.00	285.00	72.50	34.30	56.70	11.60	4.70	2,450.00
1975	180.00	18.70	110.00	4.57	128.00	497.00	405.00	159.00	62.60	31.80	16.40	72.10	1,690.00
1976	39.90	161.00	22.80	4.45	850.00	707.00	258.00	220.00	51.30	42.10	14.50	598.00	2,970.00
1977	66.40	55.90	136.00	388.00	98.70	186.00	22.60	288.00	18.00	8.91	173.00	3.61	1,450.00
1978	1.95	16.80	451.00	7,840.00	9,400.00	16,500.00	9,230.00	5,740.00	1,160.00	358.00	165.00	112.00	50,900.00
1979	63.80	323.00	823.00	2,430.00	6,640.00	8,940.00	6,970.00	1,760.00	326.00	306.00	159.00	47.20	28,800.00
1980	178.00	14.80	80.40	2,960.00	14,700.00	16,800.00	8,670.00	5,560.00	1,000.00	290.00	153.00	78.70	50,500.00
1981	56.30	23.70	217.00	187.00	228.00	224.00	77.90	38.00	9.17	4.32	1.98	57.10	1,120.00
1982	8.19	90.00	57.50	3,210.00	5,550.00	5,560.00	7,520.00	2,040.00	365.00	300.00	210.00	196.00	25,100.00
1983	88.50	455.00	2,060.00	2,760.00	9,280.00	18,600.00	12,500.00	10,500.00	4,780.00	1,010.00	497.00	162.00	62,700.00
1984	107.00	818.00	4,180.00	2,770.00	348.00	201.00	141.00	52.20	25.10	83.90	61.40	32.80	8,820.00
1985	60.70	92.70	649.00	349.00	724.00	543.00	273.00	111.00	52.80	108.00	15.60	103.00	3,080.00
1986	59.50	411.00	367.00	220.00	1,170.00	2,690.00	702.00	208.00	102.00	140.00	47.20	147.00	6,270.00
1987	35.30	92.50	156.00	212.00	184.00	201.00	51.90	16.90	35.30	43.30	25.80	42.10	1,100.00
1988	217.00	176.00	181.00	335.00	190.00	106.00	158.00	35.80	9.83	4.19	33.60	1.16	1,450.00
1989	0.61	120.00	272.00	376.00	2,470.00	605.00	226.00	119.00	57.40	28.70	73.90	21.10	4,360.00
1990	22.60	20.90	7.43	385.00	387.00	143.00	118.00	85.90	15.00	87.60	31.10	71.00	1,380.00
1991	2.05	72.40	19.90	126.00	198.00	8,920.00	4,880.00	1,090.00	308.00	247.00	113.00	74.40	16,100.00
1992	116.00	13.50	192.00	284.00	923.00	864.00	761.00	190.00	94.60	49.20	138.00	13.20	3,640.00
1993	237.00	49.50	353.00	17,300.00	17,000.00	11,800.00	7,730.00	2,600.00	487.00	223.00	115.00	59.40	58,000.00
1994	33.80	198.00	64.80	68.40	694.00	407.00	254.00	82.10	37.10	18.90	49.70	5.48	1,910.00
1995	84.30	55.10	68.30	6,090.00	5,630.00	16,300.00	8,390.00	5,160.00	895.00	287.00	210.00	83.80	43,300.00
1996	41.60	21.80	101.00	187.00	1,030.00	2,860.00	643.00	225.00	111.00	57.10	56.60	15.90	5,340.00
1997	23.00	383.00	864.00	6,610.00	4,720.00	2,740.00	457.00	214.00	104.00	90.70	27.20	272.00	16,500.00
1998	16.20	275.00	255.00	726.00	10,800.00	11,100.00	10,400.00	7,620.00	2,870.00	397.00	263.00	106.00	44,800.00
Mean	52.70	225.00	688.00	1,820.00	2,660.00	3,690.00	2,540.00	1,230.00	337.00	130.00	82.80	71.60	13,500.00
Median	35.30	92.50	192.00	376.00	724.00	605.00	290.00	183.00	62.60	58.10	49.70	50.40	3,130.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Measured rainfall for the HRUs for channel reach 3													
1950	417.00	775.00	1,050.00	1,550.00	1,170.00	391.00	381.00	135.00	0.00	12.00	23.90	195.00	6,100.00
1951	30.00	763.00	38.90	1,200.00	652.00	376.00	1,100.00	192.00	0.00	667.00	153.00	74.90	5,250.00
1952	429.00	402.00	4,370.00	2,080.00	354.00	2,670.00	1,100.00	0.00	21.00	409.00	6.10	26.90	11,900.00
1953	0.00	1,430.00	1,200.00	781.00	316.00	601.00	661.00	270.00	0.00	105.00	267.00	0.00	5,630.00
1954	105.00	397.00	345.00	2,510.00	964.00	2,730.00	51.00	6.10	36.10	393.00	57.00	183.00	7,780.00
1955	0.00	447.00	670.00	1,760.00	1,340.00	14.90	228.00	541.00	0.00	397.00	1,090.00	0.00	6,480.00
1956	0.00	544.00	859.00	2,390.00	367.00	0.00	742.00	171.00	0.00	105.00	0.00	0.00	5,170.00
1957	26.90	0.00	339.00	2,690.00	391.00	742.00	499.00	1,360.00	292.00	38.90	30.00	0.00	6,410.00
1958	1,210.00	772.00	925.00	976.00	1,850.00	3,540.00	2,080.00	78.20	0.00	0.00	0.00	595.00	12,000.00
1959	105.00	135.00	2.89	309.00	2,250.00	0.00	108.00	51.20	0.00	38.90	285.00	484.00	3,770.00
1960	405.00	405.00	1,530.00	961.00	1,700.00	316.00	625.00	87.00	0.00	23.90	60.10	342.00	6,460.00
1961	222.00	439.00	141.00	411.00	0.00	682.00	66.20	129.00	0.00	14.90	354.00	0.00	2,460.00
1962	180.00	532.00	886.00	961.00	2,420.00	820.00	0.00	526.00	63.00	0.00	0.00	264.00	6,650.00
1963	264.00	32.90	213.00	282.00	1,410.00	910.00	1,100.00	0.00	0.00	0.00	93.00	1,170.00	5,480.00
1964	418.00	1,510.00	81.00	1,290.00	303.00	1,530.00	1,110.00	405.00	0.00	207.00	0.00	354.00	7,220.00
1965	111.00	892.00	1,260.00	447.00	571.00	991.00	2,270.00	6.10	0.00	333.00	225.00	162.00	7,270.00
1966	30.00	4,080.00	1,810.00	481.00	802.00	312.00	90.10	6.10	0.00	87.00	23.90	171.00	7,890.00
1967	246.00	454.00	5,420.00	1,210.00	0.00	1,330.00	1,480.00	141.00	14.90	601.00	586.00	454.00	11,900.00
1968	0.00	874.00	1,140.00	496.00	234.00	802.00	892.00	307.00	0.00	742.00	32.90	0.00	5,520.00
1969	108.00	285.00	940.00	5,290.00	3,790.00	1,010.00	414.00	321.00	0.00	66.20	0.00	156.00	12,400.00
1970	57.00	727.00	129.00	685.00	411.00	2,230.00	307.00	0.00	0.00	207.00	961.00	14.90	5,730.00
1971	42.00	1,240.00	1,940.00	739.00	303.00	264.00	568.00	625.00	0.00	243.00	45.10	14.90	6,020.00
1972	478.00	117.00	2,630.00	14.90	367.00	0.00	192.00	126.00	643.00	23.90	369.00	32.90	4,990.00
1973	222.00	1,090.00	1,370.00	1,250.00	1,850.00	2,360.00	141.00	93.00	0.00	0.00	183.00	0.00	8,570.00
1974	108.00	931.00	177.00	2,520.00	93.00	1,060.00	631.00	26.90	0.00	303.00	129.00	0.00	5,980.00
1975	919.00	45.10	637.00	44.90	799.00	2,150.00	997.00	225.00	0.00	42.00	0.00	475.00	6,340.00
1976	354.00	751.00	150.00	0.00	2,320.00	940.00	553.00	547.00	2.89	198.00	0.00	2,500.00	8,310.00
1977	90.10	273.00	757.00	1,050.00	339.00	772.00	93.00	1,430.00	74.90	2.89	967.00	0.00	5,850.00
1978	54.00	132.00	1,880.00	3,660.00	2,300.00	3,160.00	976.00	204.00	0.00	252.00	0.00	255.00	12,900.00
1979	186.00	1,410.00	1,720.00	2,100.00	1,650.00	2,620.00	0.00	102.00	0.00	679.00	508.00	6.10	11,000.00
1980	712.00	54.00	465.00	4,310.00	5,240.00	1,990.00	688.00	481.00	2.89	23.90	0.00	0.00	14,000.00
1981	108.00	0.00	871.00	958.00	967.00	1,010.00	367.00	180.00	0.00	0.00	0.00	309.00	4,770.00
1982	132.00	493.00	330.00	3,500.00	1,560.00	2,510.00	637.00	57.00	0.00	688.00	676.00	892.00	11,500.00
1983	330.00	2,540.00	1,470.00	2,230.00	2,420.00	3,430.00	2,210.00	279.00	0.00	0.00	1,160.00	150.00	16,200.00
1984	198.00	2,630.00	2,380.00	0.00	12.00	63.20	363.00	18.10	42.00	646.00	427.00	288.00	7,070.00
1985	312.00	700.00	2,220.00	532.00	967.00	1,290.00	351.00	0.00	0.00	508.00	0.00	553.00	7,440.00
1986	448.00	1,890.00	544.00	625.00	1,860.00	1,880.00	96.20	0.00	0.00	520.00	171.00	673.00	8,700.00
1987	168.00	435.00	760.00	955.00	877.00	937.00	165.00	30.00	225.00	240.00	240.00	291.00	5,330.00
1988	1,320.00	838.00	937.00	1,130.00	384.00	270.00	982.00	180.00	0.00	0.00	423.00	21.00	6,490.00
1989	0.00	634.00	1,450.00	754.00	1,960.00	979.00	0.00	90.10	0.00	0.00	349.00	192.00	6,410.00
1990	222.00	138.00	120.00	1,810.00	1,020.00	249.00	454.00	297.00	78.20	529.00	216.00	439.00	5,570.00
1991	23.90	427.00	207.00	745.00	1,540.00	4,560.00	23.90	120.00	0.00	622.00	114.00	216.00	8,600.00
1992	454.00	30.00	1,030.00	961.00	2,030.00	1,750.00	183.00	57.00	0.00	72.00	682.00	0.00	7,250.00
1993	1,310.00	0.00	1,750.00	7,130.00	3,180.00	889.00	0.00	252.00	363.00	0.00	0.00	0.00	14,900.00
1994	66.20	919.00	312.00	342.00	2,180.00	991.00	793.00	44.90	0.00	6.10	358.00	0.00	6,020.00
1995	538.00	487.00	517.00	4,530.00	1,080.00	5,050.00	541.00	745.00	379.00	120.00	372.00	189.00	14,600.00
1996	0.00	12.00	523.00	1,060.00	2,730.00	1,100.00	459.00	6.10	0.00	30.00	180.00	0.00	6,100.00
1997	150.00	1,500.00	1,830.00	3,000.00	601.00	0.00	210.00	90.10	0.00	270.00	0.00	1,400.00	9,060.00
1998	74.90	1,400.00	841.00	1,710.00	4,610.00	2,190.00	823.00	1,290.00	90.10	42.00	538.00	23.90	13,600.00
Mean	273.00	755.00	1,090.00	1,560.00	1,360.00	1,360.00	588.00	252.00	47.50	214.00	252.00	277.00	8,020.00
Median	168.00	532.00	871.00	1,050.00	1,020.00	991.00	459.00	129.00	0.00	105.00	153.00	162.00	6,650.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total simulated evapotranspiration in the HRUs for channel reach 3													
1950	331.00	544.00	473.00	532.00	695.00	892.00	929.00	284.00	16.10	11.80	23.70	167.00	4,900.00
1951	33.40	459.00	200.00	452.00	582.00	734.00	582.00	616.00	40.20	413.00	260.00	86.40	4,460.00
1952	189.00	386.00	547.00	554.00	642.00	821.00	1,200.00	1,580.00	446.00	343.00	68.50	28.60	6,800.00
1953	0.00	459.00	571.00	706.00	569.00	826.00	573.00	566.00	42.30	93.30	207.00	16.00	4,630.00
1954	95.00	301.00	308.00	429.00	782.00	867.00	1,260.00	939.00	149.00	329.00	80.60	153.00	5,700.00
1955	2.02	334.00	489.00	563.00	584.00	872.00	654.00	551.00	33.80	278.00	819.00	111.00	5,290.00
1956	6.89	314.00	551.00	436.00	553.00	894.00	964.00	335.00	24.20	98.90	1.68	0.00	4,180.00
1957	27.10	0.00	269.00	562.00	745.00	939.00	978.00	1,110.00	480.00	78.40	29.70	0.00	5,220.00
1958	676.00	638.00	619.00	531.00	693.00	884.00	1,220.00	1,660.00	472.00	49.10	1.01	376.00	7,820.00
1959	203.00	138.00	8.01	246.00	528.00	918.00	407.00	83.70	0.00	39.00	252.00	369.00	3,190.00
1960	232.00	462.00	451.00	537.00	610.00	976.00	996.00	523.00	34.60	23.70	59.10	294.00	5,200.00
1961	192.00	311.00	212.00	131.00	207.00	389.00	271.00	127.00	2.69	15.30	290.00	30.90	2,180.00
1962	133.00	244.00	553.00	569.00	637.00	847.00	1,200.00	731.00	143.00	7.39	0.00	171.00	5,240.00
1963	263.00	54.30	153.00	273.00	685.00	859.00	861.00	432.00	24.90	0.00	92.30	796.00	4,490.00
1964	456.00	643.00	549.00	464.00	623.00	812.00	1,170.00	853.00	86.70	131.00	48.50	207.00	6,040.00
1965	190.00	468.00	410.00	643.00	624.00	874.00	1,280.00	811.00	87.50	187.00	300.00	153.00	6,030.00
1966	39.60	436.00	645.00	565.00	602.00	1,030.00	1,070.00	277.00	20.80	86.30	23.70	132.00	4,930.00
1967	251.00	352.00	616.00	642.00	693.00	1,000.00	1,030.00	1,370.00	445.00	497.00	505.00	403.00	7,800.00
1968	36.00	325.00	555.00	599.00	676.00	704.00	759.00	302.00	29.70	470.00	192.00	6.89	4,650.00
1969	101.00	211.00	285.00	715.00	653.00	997.00	1,180.00	1,550.00	427.00	111.00	0.50	137.00	6,370.00
1970	58.90	529.00	203.00	472.00	302.00	984.00	917.00	235.00	13.80	182.00	686.00	138.00	4,720.00
1971	48.10	118.00	612.00	657.00	696.00	908.00	734.00	563.00	114.00	196.00	68.20	15.30	4,730.00
1972	345.00	167.00	443.00	577.00	746.00	537.00	178.00	145.00	543.00	53.60	167.00	177.00	4,080.00
1973	225.00	448.00	575.00	605.00	693.00	881.00	1,210.00	1,170.00	150.00	10.90	175.00	0.00	6,150.00
1974	99.70	299.00	551.00	626.00	662.00	974.00	974.00	231.00	14.40	240.00	152.00	0.00	4,820.00
1975	158.00	585.00	427.00	185.00	593.00	894.00	1,070.00	871.00	79.10	45.60	0.00	389.00	5,290.00
1976	246.00	174.00	565.00	102.00	656.00	922.00	1,090.00	678.00	56.40	153.00	31.30	1,150.00	5,820.00
1977	849.00	314.00	56.00	652.00	707.00	616.00	455.00	996.00	289.00	16.70	657.00	141.00	5,750.00
1978	62.80	115.00	317.00	709.00	763.00	1,160.00	1,200.00	1,600.00	521.00	202.00	57.20	223.00	6,930.00
1979	170.00	435.00	568.00	573.00	672.00	1,080.00	1,250.00	1,240.00	200.00	474.00	499.00	48.70	7,210.00
1980	326.00	285.00	262.00	706.00	837.00	1,010.00	1,360.00	1,470.00	823.00	132.00	6.05	0.00	7,220.00
1981	91.40	5.38	583.00	329.00	759.00	923.00	778.00	214.00	34.50	0.00	0.00	241.00	3,960.00
1982	135.00	103.00	345.00	648.00	724.00	991.00	1,240.00	1,320.00	269.00	488.00	552.00	533.00	7,350.00
1983	537.00	578.00	592.00	733.00	758.00	1,080.00	1,170.00	1,820.00	926.00	107.00	875.00	224.00	9,410.00
1984	208.00	491.00	650.00	683.00	701.00	848.00	474.00	95.70	43.90	465.00	443.00	246.00	5,350.00
1985	270.00	348.00	606.00	624.00	720.00	919.00	1,260.00	353.00	27.90	382.00	48.60	387.00	5,950.00
1986	452.00	418.00	677.00	716.00	774.00	1,150.00	1,180.00	378.00	34.10	354.00	221.00	273.00	6,620.00
1987	420.00	281.00	518.00	582.00	500.00	923.00	587.00	74.40	195.00	138.00	242.00	269.00	4,730.00
1988	778.00	745.00	529.00	646.00	753.00	546.00	708.00	371.00	27.50	0.00	354.00	57.60	5,510.00
1989	0.00	263.00	523.00	611.00	700.00	1,110.00	1,040.00	233.00	11.30	0.00	276.00	184.00	4,960.00
1990	192.00	102.00	125.00	593.00	667.00	969.00	603.00	208.00	192.00	423.00	211.00	351.00	4,640.00
1991	51.80	215.00	289.00	573.00	177.00	933.00	1,270.00	1,310.00	242.00	257.00	380.00	195.00	5,890.00
1992	122.00	269.00	422.00	669.00	807.00	1,070.00	1,340.00	445.00	30.70	72.20	538.00	36.00	5,810.00
1993	345.00	637.00	531.00	681.00	738.00	1,170.00	1,390.00	1,270.00	508.00	37.30	0.00	0.00	7,310.00
1994	66.20	464.00	493.00	202.00	675.00	1,070.00	1,130.00	493.00	30.90	5.91	304.00	14.80	4,950.00
1995	425.00	385.00	314.00	714.00	874.00	1,090.00	1,240.00	1,520.00	1,010.00	256.00	263.00	236.00	8,320.00
1996	4.54	11.80	337.00	397.00	837.00	1,070.00	1,340.00	438.00	33.80	29.60	127.00	26.70	4,660.00
1997	80.60	309.00	697.00	724.00	705.00	1,160.00	917.00	276.00	16.60	201.00	34.80	791.00	5,910.00
1998	423.00	487.00	597.00	700.00	712.00	1,080.00	1,250.00	1,490.00	1,200.00	236.00	471.00	45.00	8,690.00
Mean	217.00	340.00	446.00	548.00	659.00	923.00	978.00	739.00	217.00	172.00	226.00	205.00	5,670.00
Median	189.00	325.00	518.00	582.00	693.00	923.00	1,070.00	563.00	79.10	131.00	175.00	153.00	5,350.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total runoff from HRUs flowing to channel reach 3													
1950	51.40	147.00	173.00	284.00	320.00	68.20	64.00	6.21	0.00	0.00	0.00	23.80	1,140.00
1951	0.00	108.00	0.00	192.00	85.40	76.20	141.00	31.30	0.00	103.00	10.60	3.86	752.00
1952	65.20	50.00	931.00	1,410.00	118.00	1,430.00	395.00	25.10	0.00	45.60	0.00	0.00	4,460.00
1953	0.00	241.00	202.00	170.00	53.90	112.00	102.00	23.10	0.00	10.30	44.90	0.00	959.00
1954	3.86	51.30	61.60	536.00	263.00	846.00	72.00	0.00	0.00	46.40	0.00	26.90	1,910.00
1955	0.00	72.60	110.00	299.00	262.00	30.30	33.70	69.50	0.00	69.20	195.00	0.00	1,140.00
1956	0.00	88.80	158.00	491.00	88.80	3.54	101.00	24.60	0.00	4.59	0.00	0.00	961.00
1957	0.00	0.00	52.50	522.00	76.90	151.00	56.10	222.00	50.50	0.00	0.00	0.00	1,130.00
1958	163.00	112.00	167.00	185.00	431.00	1,240.00	1,260.00	0.00	0.00	0.00	0.00	97.40	3,650.00
1959	5.92	6.76	0.00	48.80	453.00	2.24	5.80	0.00	0.00	0.00	25.70	78.80	627.00
1960	49.10	75.60	266.00	192.00	386.00	113.00	92.50	4.67	0.00	0.00	0.72	41.80	1,220.00
1961	25.40	49.40	6.64	68.70	0.12	84.40	1.17	9.06	0.00	0.00	32.10	0.00	277.00
1962	10.70	82.60	146.00	168.00	529.00	232.00	0.48	56.90	1.33	0.00	0.00	44.20	1,270.00
1963	23.80	0.00	21.90	30.20	252.00	138.00	171.00	0.78	0.00	0.00	0.00	204.00	841.00
1964	62.80	272.00	3.91	230.00	25.60	283.00	189.00	53.30	0.00	32.00	0.00	54.50	1,200.00
1965	5.92	142.00	237.00	66.50	110.00	135.00	485.00	0.00	0.00	46.60	15.70	10.40	1,250.00
1966	0.00	1,090.00	731.00	255.00	464.00	57.20	1.27	0.00	0.00	0.00	0.00	12.20	2,610.00
1967	16.30	75.00	2,040.00	557.00	32.70	392.00	348.00	31.40	0.00	107.00	77.10	62.00	3,740.00
1968	0.36	124.00	220.00	72.80	21.20	119.00	167.00	53.40	0.00	103.00	0.12	0.00	881.00
1969	0.00	48.80	162.00	1,830.00	2,180.00	769.00	197.00	64.20	0.00	0.00	0.00	16.70	5,260.00
1970	0.00	93.70	16.30	94.90	53.60	498.00	40.70	0.29	0.00	19.90	146.00	0.00	963.00
1971	0.00	226.00	469.00	254.00	46.30	50.30	56.50	78.00	0.12	27.70	0.00	0.00	1,210.00
1972	63.70	9.66	544.00	19.40	71.50	0.00	28.90	2.78	71.70	0.00	51.70	0.85	865.00
1973	0.72	192.00	290.00	236.00	467.00	924.00	57.10	9.07	0.00	0.00	7.12	0.00	2,180.00
1974	7.12	146.00	18.40	551.00	0.80	201.00	135.00	0.00	0.00	37.20	2.05	0.00	1,100.00
1975	157.00	2.81	93.70	0.24	110.00	352.00	169.00	29.20	0.00	0.00	0.00	60.40	974.00
1976	35.90	137.00	10.80	0.00	506.00	238.00	62.30	106.00	0.00	14.90	0.12	472.00	1,580.00
1977	5.77	22.60	141.00	198.00	38.10	135.00	0.32	231.00	0.00	0.00	158.00	0.00	930.00
1978	0.00	14.90	362.00	1,340.00	1,080.00	1,800.00	427.00	77.10	0.00	41.70	0.00	22.60	5,160.00
1979	13.50	242.00	405.00	567.00	841.00	982.00	129.00	2.16	0.00	121.00	60.10	0.00	3,360.00
1980	140.00	0.00	66.60	1,070.00	3,250.00	1,060.00	178.00	164.00	0.00	0.00	0.00	0.00	5,930.00
1981	11.00	0.00	169.00	159.00	176.00	157.00	35.30	16.70	0.12	0.00	0.00	53.90	778.00
1982	7.12	80.70	51.60	886.00	707.00	939.00	364.00	0.00	0.00	96.70	96.30	125.00	3,350.00
1983	49.30	478.00	466.00	757.00	1,020.00	2,050.00	894.00	335.00	0.00	0.00	178.00	4.95	6,240.00
1984	16.50	564.00	746.00	52.50	0.00	0.89	36.00	0.24	0.00	68.60	52.50	28.10	1,570.00
1985	54.60	83.80	433.00	86.50	247.00	247.00	63.30	0.00	0.00	74.70	0.00	86.90	1,380.00
1986	51.20	354.00	126.00	110.00	380.00	507.00	8.78	0.00	0.00	78.60	18.70	117.00	1,750.00
1987	22.90	80.80	134.00	174.00	148.00	141.00	17.00	0.00	26.30	38.40	25.10	39.40	847.00
1988	191.00	125.00	141.00	225.00	80.40	38.10	112.00	14.30	0.12	0.00	30.90	0.00	958.00
1989	0.00	111.00	239.00	173.00	543.00	210.00	4.25	0.72	0.00	0.00	55.80	12.30	1,350.00
1990	16.80	17.30	5.68	328.00	216.00	21.50	52.80	50.50	0.12	76.80	26.30	66.20	878.00
1991	0.60	66.80	17.40	110.00	292.00	1,750.00	79.40	17.00	0.00	93.00	9.66	28.90	2,460.00
1992	84.50	0.12	166.00	181.00	439.00	311.00	65.10	0.00	0.00	0.00	106.00	0.00	1,350.00
1993	211.00	9.71	299.00	3,650.00	1,850.00	440.00	62.70	45.50	54.20	0.00	0.00	0.00	6,630.00
1994	0.00	152.00	42.90	54.50	449.00	184.00	103.00	0.95	0.00	0.00	37.90	0.00	1,020.00
1995	75.00	49.70	60.10	1,400.00	525.00	2,880.00	202.00	181.00	59.30	13.50	64.70	9.78	5,520.00
1996	0.00	0.00	78.40	175.00	597.00	379.00	89.90	0.17	0.00	0.00	26.30	0.00	1,350.00
1997	13.30	301.00	432.00	1,220.00	160.00	79.60	25.60	7.12	0.00	33.40	0.00	234.00	2,500.00
1998	1.32	243.00	154.00	364.00	1,970.00	954.00	494.00	424.00	10.90	0.00	56.40	0.00	4,670.00
Mean	35.00	136.00	242.00	450.00	457.00	486.00	161.00	50.40	5.61	28.60	32.90	41.60	2,130.00
Median	11.00	82.60	154.00	198.00	262.00	210.00	79.40	14.30	0.00	4.59	9.66	10.40	1,270.00

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Land-surface infiltration in the HRUs for channel reach 3													
1950	0.00	0.32	0.82	6.32	26.10	2.45	1.00	0.00	0.00	0.00	0.00	0.00	37.00
1951	0.00	0.32	0.00	0.97	0.65	1.62	0.49	0.00	0.00	0.00	0.00	0.00	4.22
1952	0.00	0.00	80.30	182.00	20.20	231.00	66.40	0.00	0.00	0.00	0.00	0.00	580.00
1953	0.00	2.25	6.45	9.03	1.31	3.26	0.17	0.00	0.00	0.00	0.00	0.00	22.10
1954	0.00	0.00	0.00	17.30	18.80	106.00	0.00	0.00	0.00	0.00	0.00	0.00	142.00
1955	0.00	0.00	0.17	6.31	12.80	0.00	0.17	0.17	0.00	0.00	0.65	0.00	20.40
1956	0.00	0.00	0.97	12.90	6.91	0.00	1.49	0.00	0.00	0.00	0.00	0.00	22.50
1957	0.00	0.00	0.00	22.50	3.55	9.21	0.50	2.29	0.17	0.00	0.00	0.00	38.00
1958	0.32	1.46	1.80	1.32	25.90	170.00	191.00	0.00	0.00	0.00	0.00	0.00	392.00
1959	0.00	0.00	0.00	0.00	14.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.30
1960	0.00	0.32	2.42	8.37	31.40	4.86	0.66	0.00	0.00	0.00	0.00	0.00	48.10
1961	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
1962	0.00	0.16	1.45	1.79	37.80	26.60	0.00	0.17	0.00	0.00	0.00	0.00	67.80
1963	0.00	0.00	0.00	0.00	1.30	0.83	0.83	0.00	0.00	0.00	0.00	0.49	3.43
1964	0.00	2.43	0.00	2.43	0.17	4.25	7.32	1.00	0.00	0.00	0.00	0.00	17.70
1965	0.00	0.65	1.77	1.93	1.79	1.64	28.60	0.00	0.00	0.00	0.00	0.00	36.50
1966	0.00	82.90	131.00	29.50	59.20	7.79	0.00	0.00	0.00	0.00	0.00	0.00	311.00
1967	0.00	0.00	173.00	86.60	0.00	47.60	38.10	2.47	0.00	0.00	0.00	0.00	348.00
1968	0.00	0.48	3.70	0.82	0.17	0.32	0.34	0.00	0.00	0.00	0.00	0.00	5.84
1969	0.00	0.00	0.65	211.00	349.00	91.50	33.00	7.57	0.00	0.00	0.00	0.00	693.00
1970	0.00	0.32	0.00	0.32	0.00	18.50	0.17	0.00	0.00	0.00	0.00	0.00	19.30
1971	0.00	2.09	29.80	29.30	2.93	1.48	0.17	0.17	0.00	0.00	0.00	0.00	66.10
1972	0.00	0.00	22.00	0.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.70
1973	0.00	1.45	9.65	13.10	52.60	135.00	1.32	0.17	0.00	0.00	0.00	0.00	213.00
1974	0.00	0.48	0.32	22.50	0.00	10.10	2.96	0.00	0.00	0.00	0.00	0.00	36.50
1975	0.80	0.00	0.17	0.00	0.32	8.55	9.69	0.00	0.00	0.00	0.00	0.00	19.70
1976	0.00	0.48	0.00	0.00	16.80	18.70	1.63	0.34	0.00	0.00	0.00	5.82	43.90
1977	0.00	0.00	0.00	5.93	0.32	0.34	0.00	1.45	0.00	0.00	0.17	0.00	8.37
1978	0.00	0.00	7.06	177.00	191.00	280.00	59.50	10.90	0.00	0.00	0.00	0.00	726.00
1979	0.00	2.73	20.70	81.40	111.00	164.00	0.00	0.17	0.00	0.00	0.00	0.00	379.00
1980	0.00	0.00	0.00	100.00	450.00	163.00	32.30	14.50	0.00	0.00	0.00	0.00	760.00
1981	0.00	0.00	0.80	0.65	2.27	2.77	0.32	0.00	0.00	0.00	0.00	0.00	6.66
1982	0.00	0.00	0.00	62.40	94.40	158.00	40.90	0.00	0.00	0.17	0.32	0.32	357.00
1983	0.00	7.77	44.40	117.00	189.00	304.00	179.00	20.40	0.00	0.00	0.65	0.00	862.00
1984	0.00	21.80	85.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	108.00
1985	0.00	0.32	17.20	6.61	18.60	13.40	1.00	0.00	0.00	0.00	0.00	0.00	57.10
1986	0.00	5.64	7.06	0.66	14.00	49.10	0.82	0.00	0.00	0.00	0.00	0.32	77.40
1987	0.00	0.00	0.32	1.46	1.14	2.28	0.17	0.00	0.00	0.00	0.00	0.00	5.37
1988	0.97	1.79	1.32	5.55	2.61	0.50	0.32	0.00	0.00	0.00	0.00	0.00	13.20
1989	0.00	0.00	1.94	8.86	42.60	13.00	0.00	0.00	0.00	0.00	0.00	0.00	66.40
1990	0.00	0.00	0.00	4.03	8.55	0.32	0.00	0.00	0.00	0.00	0.00	0.00	13.20
1991	0.00	0.00	0.00	0.32	0.65	237.00	0.00	0.98	0.00	0.00	0.00	0.00	239.00
1992	0.00	0.00	0.32	4.03	20.70	26.60	5.02	0.00	0.00	0.00	0.00	0.00	56.60
1993	1.77	0.00	3.90	498.00	296.00	71.90	0.00	1.01	0.17	0.00	0.00	0.00	873.00
1994	0.00	0.80	0.00	0.00	14.60	7.29	1.32	0.00	0.00	0.00	0.00	0.00	24.00
1995	0.00	0.00	0.00	151.00	72.30	376.00	31.00	21.10	0.50	0.00	0.00	0.00	652.00
1996	0.00	0.00	0.00	0.65	36.10	38.40	3.12	0.00	0.00	0.00	0.00	0.00	78.20
1997	0.00	2.57	32.10	176.00	25.80	0.00	1.32	0.00	0.00	0.00	0.00	0.65	238.00
1998	0.00	1.30	4.03	20.20	291.00	168.00	56.80	54.70	0.83	0.00	0.00	0.00	597.00
Mean	0.08	2.87	14.20	42.60	52.40	60.80	16.30	2.85	0.03	0.00	0.04	0.16	192.00
Median	0.00	0.00	0.82	6.31	14.30	9.21	0.82	0.00	0.00	0.00	0.00	0.00	56.60

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Measured rainfall for channel reach 3													
1950	0.01	0.25	0.32	0.09	0.81	0.04	0.09	0.02	0.00	0.00	0.00	0.00	1.63
1951	0.00	0.08	0.00	0.52	0.06	0.11	0.37	0.01	0.00	0.03	0.01	0.00	1.19
1952	0.02	0.05	8.57	2.34	0.11	3.67	0.41	0.00	0.01	0.09	0.00	0.00	15.30
1953	0.00	0.79	0.14	0.26	0.08	0.19	0.03	0.04	0.00	0.00	0.00	0.00	1.52
1954	0.00	0.01	0.00	2.33	0.45	2.51	0.01	0.00	0.00	0.04	0.01	0.01	5.37
1955	0.00	0.02	0.01	0.29	0.65	0.00	0.01	0.12	0.00	0.01	0.02	0.00	1.13
1956	0.00	0.01	0.14	4.24	0.08	0.00	0.12	0.01	0.00	0.00	0.00	0.00	4.60
1957	0.00	0.00	0.02	1.10	0.05	0.20	0.12	0.43	0.02	0.00	0.00	0.00	1.93
1958	0.09	0.12	0.38	0.65	1.47	1.40	4.06	0.02	0.00	0.00	0.00	0.05	8.25
1959	0.01	0.01	0.00	0.04	1.43	0.00	0.01	0.00	0.00	0.00	0.01	0.01	1.51
1960	0.03	0.03	0.18	0.31	0.53	0.27	0.25	0.01	0.00	0.00	0.00	0.01	1.63
1961	0.00	0.02	0.00	0.11	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.17
1962	0.00	0.08	0.29	0.40	1.26	0.23	0.00	0.14	0.01	0.00	0.00	0.01	2.41
1963	0.03	0.00	0.00	0.02	0.68	0.02	0.05	0.00	0.00	0.00	0.00	0.57	1.38
1964	0.10	0.54	0.00	0.73	0.02	1.23	0.40	0.09	0.00	0.01	0.00	0.01	3.12
1965	0.00	0.17	1.36	0.02	0.12	0.12	1.43	0.00	0.00	0.01	0.01	0.02	3.26
1966	0.00	6.76	1.02	0.12	0.74	0.08	0.02	0.00	0.00	0.01	0.00	0.01	8.75
1967	0.02	0.14	12.50	1.42	0.00	1.08	0.51	0.03	0.00	0.06	0.04	0.02	15.80
1968	0.00	0.03	0.29	0.13	0.02	0.33	0.03	0.01	0.00	0.02	0.00	0.00	0.85
1969	0.00	0.00	0.15	8.57	7.37	1.69	0.24	0.09	0.00	0.01	0.00	0.02	18.10
1970	0.00	0.05	0.01	0.12	0.02	3.49	0.03	0.00	0.00	0.01	0.08	0.00	3.80
1971	0.00	0.60	0.93	0.10	0.08	0.03	0.13	0.10	0.00	0.00	0.00	0.00	1.98
1972	0.10	0.00	1.87	0.00	0.10	0.00	0.01	0.01	0.09	0.00	0.01	0.00	2.19
1973	0.00	0.27	0.78	0.14	1.25	1.27	0.03	0.02	0.00	0.00	0.01	0.00	3.78
1974	0.01	0.19	0.02	1.70	0.01	0.35	0.06	0.00	0.00	0.02	0.01	0.00	2.36
1975	0.50	0.01	0.13	0.00	0.13	0.57	0.24	0.02	0.00	0.00	0.00	0.01	1.59
1976	0.01	0.47	0.00	0.00	1.83	0.82	0.07	0.05	0.00	0.03	0.00	2.60	5.88
1977	0.00	0.02	0.02	0.24	0.05	0.20	0.00	0.77	0.00	0.00	0.14	0.00	1.46
1978	0.00	0.00	0.96	2.57	3.44	8.59	0.56	0.07	0.00	0.04	0.00	0.03	16.30
1979	0.01	0.74	1.48	0.93	2.12	2.74	0.00	0.03	0.00	0.11	0.09	0.00	8.26
1980	0.03	0.00	0.04	4.19	20.00	4.06	0.30	0.25	0.00	0.00	0.00	0.00	28.90
1981	0.01	0.00	0.88	0.23	0.03	0.11	0.03	0.02	0.00	0.00	0.00	0.00	1.30
1982	0.00	0.18	0.04	3.60	2.32	2.48	0.52	0.01	0.00	0.16	0.31	0.52	10.10
1983	0.02	0.85	0.73	1.62	2.91	8.10	2.65	0.75	0.00	0.00	0.58	0.02	18.20
1984	0.00	1.69	2.58	0.00	0.00	0.01	0.03	0.00	0.00	0.04	0.03	0.01	4.40
1985	0.01	0.07	1.10	0.09	0.13	0.89	0.03	0.00	0.00	0.19	0.00	0.16	2.68
1986	0.01	1.05	0.17	0.04	0.37	0.85	0.02	0.00	0.00	0.16	0.01	0.26	2.93
1987	0.01	0.01	0.36	0.01	0.54	0.15	0.02	0.00	0.03	0.01	0.01	0.00	1.12
1988	0.60	0.23	0.04	0.62	0.02	0.06	0.25	0.01	0.00	0.00	0.02	0.00	1.85
1989	0.00	0.01	0.02	0.02	2.21	0.59	0.00	0.01	0.00	0.00	0.01	0.00	2.87
1990	0.01	0.00	0.00	0.63	0.67	0.02	0.04	0.01	0.00	0.10	0.02	0.01	1.51
1991	0.00	0.00	0.02	0.28	0.74	11.70	0.04	0.03	0.00	0.07	0.01	0.02	12.90
1992	0.02	0.00	0.28	0.44	0.78	0.25	0.08	0.01	0.00	0.00	0.13	0.00	2.00
1993	0.36	0.00	0.30	23.70	6.60	1.14	0.00	0.07	0.16	0.00	0.00	0.00	32.40
1994	0.00	0.52	0.01	0.01	1.01	0.19	0.14	0.00	0.00	0.00	0.07	0.00	1.96
1995	0.06	0.01	0.11	3.47	1.24	11.30	0.34	0.33	0.16	0.02	0.05	0.02	17.10
1996	0.00	0.00	0.18	0.04	2.28	0.24	0.08	0.00	0.00	0.00	0.01	0.00	2.83
1997	0.00	2.42	0.48	3.07	0.33	0.00	0.03	0.01	0.00	0.06	0.00	0.65	7.06
1998	0.00	0.29	0.29	1.37	4.64	3.20	0.87	0.99	0.02	0.01	0.14	0.00	11.80
Mean	0.04	0.38	0.80	1.49	1.46	1.56	0.30	0.09	0.01	0.03	0.04	0.10	6.31
Median	0.00	0.05	0.17	0.29	0.54	0.27	0.06	0.01	0.00	0.01	0.01	0.00	2.87

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Total simulated evaporation for channel reach 3													
1950	0.05	0.04	0.04	0.05	0.11	0.08	0.10	0.07	0.07	0.07	0.04	0.05	0.77
1951	0.01	0.05	0.01	0.04	0.04	0.04	0.07	0.06	0.02	0.20	0.04	0.02	0.59
1952	0.03	0.03	0.09	0.21	0.12	0.36	0.31	0.40	0.32	0.39	0.20	0.12	2.57
1953	0.07	0.07	0.05	0.09	0.04	0.07	0.08	0.05	0.03	0.07	0.09	0.01	0.73
1954	0.01	0.03	0.02	0.09	0.11	0.23	0.21	0.23	0.20	0.26	0.09	0.09	1.56
1955	0.03	0.04	0.03	0.07	0.08	0.06	0.07	0.08	0.05	0.12	0.25	0.02	0.90
1956	0.01	0.03	0.04	0.05	0.06	0.06	0.08	0.07	0.06	0.06	0.02	0.02	0.55
1957	0.01	0.00	0.02	0.10	0.08	0.12	0.09	0.18	0.13	0.07	0.04	0.02	0.85
1958	0.07	0.05	0.05	0.05	0.12	0.29	0.43	0.36	0.38	0.34	0.25	0.18	2.57
1959	0.07	0.03	0.02	0.02	0.10	0.06	0.07	0.05	0.06	0.05	0.09	0.07	0.68
1960	0.03	0.03	0.06	0.06	0.09	0.13	0.11	0.09	0.10	0.09	0.06	0.08	0.93
1961	0.03	0.03	0.01	0.02	0.01	0.05	0.01	0.02	0.01	0.01	0.06	0.00	0.25
1962	0.01	0.03	0.03	0.04	0.12	0.14	0.14	0.14	0.11	0.10	0.08	0.09	1.04
1963	0.03	0.01	0.01	0.01	0.07	0.07	0.11	0.03	0.02	0.02	0.01	0.14	0.52
1964	0.04	0.08	0.02	0.05	0.02	0.09	0.12	0.09	0.07	0.12	0.03	0.06	0.78
1965	0.02	0.05	0.03	0.04	0.04	0.07	0.23	0.11	0.10	0.16	0.09	0.04	0.99
1966	0.02	0.16	0.17	0.12	0.14	0.17	0.17	0.19	0.17	0.15	0.11	0.07	1.63
1967	0.04	0.03	0.26	0.15	0.12	0.21	0.20	0.19	0.19	0.30	0.24	0.11	2.04
1968	0.03	0.05	0.05	0.03	0.03	0.05	0.07	0.06	0.02	0.18	0.01	0.01	0.60
1969	0.00	0.02	0.03	0.20	0.36	0.47	0.28	0.35	0.34	0.37	0.28	0.16	2.87
1970	0.06	0.06	0.02	0.04	0.02	0.15	0.08	0.07	0.08	0.11	0.21	0.02	0.93
1971	0.01	0.04	0.09	0.10	0.08	0.08	0.09	0.13	0.07	0.12	0.04	0.02	0.86
1972	0.03	0.01	0.08	0.05	0.06	0.06	0.07	0.05	0.13	0.03	0.08	0.02	0.68
1973	0.01	0.05	0.06	0.07	0.12	0.29	0.21	0.28	0.27	0.22	0.14	0.07	1.78
1974	0.04	0.05	0.02	0.10	0.04	0.10	0.11	0.08	0.08	0.12	0.05	0.02	0.82
1975	0.04	0.02	0.03	0.01	0.04	0.14	0.13	0.11	0.08	0.08	0.05	0.09	0.81
1976	0.03	0.03	0.02	0.01	0.11	0.12	0.11	0.15	0.10	0.11	0.04	0.24	1.06
1977	0.04	0.03	0.01	0.08	0.04	0.06	0.03	0.13	0.04	0.03	0.18	0.02	0.69
1978	0.01	0.01	0.06	0.22	0.26	0.66	0.40	0.36	0.45	0.45	0.24	0.12	3.24
1979	0.07	0.06	0.08	0.12	0.18	0.29	0.25	0.33	0.34	0.37	0.20	0.10	2.39
1980	0.08	0.02	0.04	0.17	0.59	0.55	0.41	0.30	0.39	0.44	0.27	0.16	3.42
1981	0.08	0.03	0.04	0.05	0.07	0.08	0.06	0.06	0.04	0.03	0.02	0.07	0.63
1982	0.01	0.02	0.02	0.15	0.20	0.29	0.28	0.32	0.29	0.38	0.23	0.13	2.30
1983	0.06	0.07	0.13	0.14	0.24	0.63	0.49	0.60	0.43	0.51	0.46	0.22	3.98
1984	0.09	0.13	0.13	0.11	0.09	0.10	0.10	0.10	0.08	0.18	0.12	0.06	1.28
1985	0.03	0.04	0.10	0.06	0.10	0.10	0.13	0.10	0.11	0.17	0.05	0.06	1.05
1986	0.06	0.06	0.07	0.06	0.13	0.20	0.13	0.16	0.15	0.19	0.12	0.08	1.39
1987	0.03	0.04	0.03	0.04	0.03	0.08	0.05	0.03	0.08	0.08	0.06	0.10	0.64
1988	0.08	0.07	0.04	0.06	0.05	0.04	0.09	0.05	0.03	0.02	0.09	0.01	0.64
1989	0.01	0.03	0.03	0.06	0.11	0.15	0.12	0.13	0.12	0.11	0.13	0.05	1.04
1990	0.03	0.02	0.01	0.06	0.09	0.06	0.09	0.08	0.05	0.19	0.08	0.09	0.84
1991	0.02	0.03	0.01	0.04	0.02	0.38	0.26	0.28	0.28	0.26	0.22	0.13	1.91
1992	0.08	0.02	0.05	0.05	0.13	0.16	0.16	0.15	0.13	0.12	0.23	0.04	1.31
1993	0.10	0.04	0.06	0.46	0.43	0.41	0.35	0.39	0.38	0.30	0.23	0.13	3.27
1994	0.07	0.06	0.03	0.03	0.12	0.13	0.12	0.07	0.09	0.07	0.11	0.02	0.90
1995	0.06	0.03	0.03	0.24	0.25	0.68	0.29	0.32	0.37	0.36	0.31	0.15	3.06
1996	0.07	0.04	0.03	0.04	0.14	0.23	0.19	0.17	0.17	0.15	0.15	0.04	1.40
1997	0.03	0.06	0.13	0.26	0.14	0.19	0.17	0.21	0.16	0.18	0.09	0.23	1.85
1998	0.03	0.07	0.06	0.10	0.30	0.34	0.36	0.37	0.34	0.44	0.35	0.14	2.89
Mean	0.22	0.24	0.25	0.27	0.29	0.32	0.33	0.36	0.40	0.46	0.55	0.76	1.44
Median	0.03	0.04	0.04	0.06	0.10	0.13	0.12	0.13	0.11	0.15	0.09	0.07	1.04

Table 8. Flows in and out of the land surfaces [hydrologic response units (HRUs)] and the channel reach and reservoir segments (RCHRESs) in the long-term (1950–98) model when the effective impervious (EIA) and non-effective impervious (NEIA) urban areas are increased by 50 percent for the eastern part of the San Jacinto River Basin, Riverside County, California—Continued

Year end	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Annual
Streamflow out of channel reach 3													
1950	54.00	149.00	175.00	292.00	381.00	113.00	90.50	20.50	7.30	3.92	2.06	24.80	1,310.00
1951	0.61	109.00	0.86	193.00	88.10	82.40	144.00	34.20	1.25	104.00	11.00	4.15	772.00
1952	65.40	50.40	958.00	1,930.00	357.00	2,160.00	736.00	258.00	159.00	136.00	48.00	25.00	6,890.00
1953	14.00	252.00	214.00	206.00	73.40	131.00	112.00	28.60	2.70	11.70	45.60	0.39	1,090.00
1954	4.15	51.60	62.00	555.00	328.00	963.00	256.00	107.00	55.70	77.20	16.50	35.60	2,510.00
1955	4.79	75.10	112.00	309.00	278.00	62.60	48.60	78.00	4.27	71.50	197.00	1.56	1,240.00
1956	0.85	89.50	161.00	500.00	125.00	33.10	119.00	34.10	4.76	7.14	1.37	0.69	1,080.00
1957	0.40	0.21	52.70	545.00	122.00	201.00	83.20	240.00	60.80	5.45	2.87	1.50	1,320.00
1958	165.00	116.00	172.00	189.00	475.00	1,430.00	2,010.00	241.00	170.00	99.30	52.70	125.00	5,250.00
1959	21.30	14.90	4.50	51.40	474.00	30.20	19.80	7.78	3.87	2.06	26.80	79.50	736.00
1960	49.60	76.50	269.00	212.00	439.00	187.00	130.00	25.50	10.40	5.66	3.72	43.30	1,450.00
1961	26.20	49.80	6.96	68.80	0.35	84.50	1.30	9.19	0.06	0.02	32.20	0.04	280.00
1962	10.80	82.80	150.00	172.00	564.00	354.00	68.30	95.10	20.90	10.70	5.60	47.30	1,580.00
1963	25.70	0.92	22.30	30.50	254.00	141.00	173.00	3.02	0.95	0.48	0.24	205.00	857.00
1964	63.80	276.00	8.25	235.00	30.60	291.00	211.00	66.90	6.56	35.50	1.90	55.40	1,280.00
1965	6.45	144.00	240.00	75.10	119.00	141.00	542.00	35.80	18.40	56.60	21.00	13.20	1,410.00
1966	1.55	1,150.00	965.00	490.00	694.00	245.00	108.00	59.20	30.50	16.80	8.83	16.80	3,790.00
1967	19.00	76.70	3,000.00	793.00	224.00	586.00	522.00	150.00	59.80	139.00	94.60	71.50	5,740.00
1968	5.58	127.00	229.00	80.70	26.50	123.00	169.00	54.50	0.57	103.00	0.41	0.10	919.00
1969	0.11	48.80	163.00	2,190.00	3,620.00	2,070.00	701.00	310.00	172.00	101.00	53.70	44.80	9,470.00
1970	15.80	102.00	21.20	98.20	54.90	546.00	65.50	14.10	6.95	23.60	148.00	1.28	1,100.00
1971	0.65	227.00	515.00	378.00	113.00	95.10	80.40	91.30	6.96	31.30	1.91	0.99	1,540.00
1972	64.40	10.20	561.00	69.20	102.00	17.80	38.10	7.76	74.30	1.41	52.40	1.28	1,000.00
1973	0.95	195.00	315.00	270.00	554.00	1,140.00	258.00	140.00	67.00	37.10	26.80	10.30	3,010.00
1974	12.90	150.00	22.20	598.00	32.30	240.00	160.00	13.00	6.56	40.80	3.89	0.96	1,280.00
1975	158.00	5.34	95.30	1.04	111.00	366.00	201.00	49.40	10.30	5.57	2.94	61.90	1,070.00
1976	36.50	138.00	12.70	0.86	542.00	311.00	100.00	128.00	11.00	20.80	3.29	483.00	1,790.00
1977	16.70	28.10	142.00	217.00	46.80	141.00	3.78	236.00	3.28	1.63	159.00	0.88	996.00
1978	0.42	15.00	366.00	1,580.00	1,600.00	3,330.00	1,050.00	353.00	190.00	161.00	63.70	55.90	8,760.00
1979	32.20	256.00	448.00	695.00	1,060.00	1,300.00	409.00	185.00	102.00	177.00	90.50	15.80	4,780.00
1980	149.00	4.71	69.30	1,150.00	5,700.00	2,690.00	715.00	441.00	190.00	119.00	63.60	33.10	11,300.00
1981	29.50	9.72	177.00	164.00	185.00	167.00	41.80	20.10	1.71	0.87	0.44	54.10	850.00
1982	7.28	80.90	52.00	964.00	927.00	1,210.00	697.00	197.00	116.00	161.00	131.00	144.00	4,690.00
1983	60.60	483.00	560.00	890.00	1,340.00	3,360.00	1,820.00	1,070.00	245.00	187.00	288.00	62.80	10,300.00
1984	49.00	606.00	855.00	227.00	88.50	52.60	63.00	14.90	7.51	72.70	54.70	29.40	2,120.00
1985	55.40	84.30	453.00	128.00	308.00	299.00	104.00	21.10	10.70	80.70	3.22	88.60	1,640.00
1986	52.30	357.00	157.00	127.00	407.00	609.00	81.70	40.20	20.60	90.00	24.80	120.00	2,090.00
1987	25.20	82.20	136.00	178.00	151.00	148.00	21.70	2.44	27.50	39.00	25.30	39.60	875.00
1988	192.00	131.00	145.00	237.00	93.40	45.60	116.00	17.10	1.49	0.69	31.40	0.26	1,010.00
1989	0.13	111.00	241.00	198.00	641.00	290.00	53.00	27.00	13.40	7.28	59.70	14.40	1,660.00
1990	18.00	18.00	6.06	332.00	236.00	40.60	62.70	56.00	2.87	78.40	27.20	66.70	944.00
1991	0.90	67.10	17.80	111.00	289.00	2,050.00	343.00	200.00	102.00	148.00	41.40	44.50	3,410.00
1992	93.30	4.76	169.00	193.00	478.00	372.00	134.00	35.40	18.20	9.98	112.00	2.84	1,620.00
1993	213.00	15.40	304.00	5,910.00	3,600.00	1,520.00	557.00	283.00	220.00	95.60	50.80	26.50	12,800.00
1994	14.80	161.00	48.70	57.60	473.00	220.00	129.00	15.50	7.15	3.88	40.10	1.10	1,170.00
1995	75.80	50.00	60.40	1,560.00	767.00	5,530.00	654.00	441.00	241.00	123.00	123.00	40.10	9,670.00
1996	17.00	8.87	83.70	177.00	626.00	527.00	180.00	50.40	25.80	14.10	33.70	3.92	1,750.00
1997	15.50	306.00	484.00	1,450.00	369.00	273.00	135.00	67.40	31.20	50.70	9.08	239.00	3,430.00
1998	5.26	245.00	167.00	405.00	2,400.00	1,500.00	1,110.00	723.00	211.00	132.00	127.00	36.80	7,060.00
Mean	39.80	141.00	279.00	560.00	653.00	772.00	319.00	139.00	56.40	59.20	49.50	50.50	3,120.00
Median	18.00	82.80	161.00	227.00	328.00	290.00	134.00	56.00	18.20	39.00	31.40	29.40	1,580.00