Table 1. Potential contributing areas for combined infiltration- and saturation-excess overland flows, and land use for selected subbasins in Kansas

[P, soil permeability, in inches per hour; TWI, topographic wetness index. Land-use data from Kansas Applied Remote Sensing Program (1993)]

Subbasin number (fig. 1)	Mean P	Mean TWI	Potential contributing area, in percentage of subbasin, for selected potential-runoff conditions			Land use, in percentage of subbasin			
			Low potential runoff[1]	Very low potential runoff[2]	Extremely low potential runoff[3]	Cropland	Grassland	Woodland	Urban
Cimarron River Basin									
1	3.8	10.3	70.8	15.2	2.8	35.6	63.6	0.3	0.4
2	1.8	11.1	89.8	65.8	15.3	81.2	18.3	0	.2
Kansas-Lower Republican River Basin									
3	.5	9.9	99.7	83.9	66.7	41.3	48.9	6.9	.3
4	.4	9.9	99.9	86.5	81.0	54.9	41.3	3.2	.3
5	1.0	10.2	99.2	71.9	9.8	65.9	29.6	3.7	.4
6	.4	9.9	100	90.6	84.5	30.9	62.6	6.2	.1
7	.4	10.0	100	89.8	84.3	52.7	41.2	5.6	.2
8	.6	9.9	100	88.5	41.0	43.4	52.6	3.5	.1
9	.4	10.2	100	91.9	87.8	65.3	30.6	2.0	1.2
10	.9	10.1	98.3	76.6	15.8	56.8	37.4	4.9	.2
11	.5	9.3	100	95.4	89.7	10.5	84.6	3.9	.2
12	.9	10.0	100	72.4	9.1	54.0	40.3	5.1	.3
13	1.1	10.2	97.4	66.6	6.0	61.2	33.5	4.4	.5
14	1.6	10.4	92.9	51.2	2.5	60.1	35.2	3.7	.2
15	0.5	10.2	99.5	88.9	66.7	30.0	62.8	6.0	.5
16	.5	10.1	99.3	89.6	75.1	39.3	48.3	11.1	.5
17	.5	9.7	99.4	89.5	82.5	24.7	68.4	6.5	.2
18	.7	10.1	97.2	76.0	49.6	38.1	40.3	15.0	4.6
19	.5	10.0	100	88.0	67.3	28.5	57.0	9.4	.5
20	1.2	10.0	99.7	27.5	4.8	44.5	48.3	5.9	.1
21	.6	9.9	99.2	91.7	72.1	21.8	65.0	8.4	4.2
Lower Arkansas River Basin									
22	1.4	10.8	85.9	49.4	33.1	69.8	29.1	.7	.3
23	1.6	10.9	88.3	62.0	14.8	76.7	20.0	.9	1.4
24	1.9	11.4	89.5	54.1	17.7	76.1	14.9	1.0	6.7
25	.5	10.2	100	86.0	61.9	10.9	85.3	3.2	.1
26	2.4	11.0	86.4	71.5	24.3	66.5	31.8	1.2	.3
27	2.5	10.0	74.8	39.1	25.3	23.2	75.5	1.0	.2
28	2.9	9.9	71.8	28.9	11.7	23.6	75.8	.6	0
29	5.0	11.1	60.7	25.0	9.9	72.7	24.5	1.0	.2
30	.5	11.2	98.2	79.4	73.8	86.6	9.3	1.1	2.4
31	3.4	10.6	66.0	15.4	6.5	44.9	54.6	.4	.1

Table 1. Potential contributing areas for combined infiltration- and saturation-excess overland flows, and land use for selected subbasins in Kansas—Continued

Subbasin number (fig. 1)	Mean P	Mean TWI	Potential contributing area, in percentage of subbasin, for selected potential-runoff conditions			Land use, in percentage of subbasin			
			Low potential runoff[1]	Very low potential runoff[2]	Extremely low potential runoff[3]	Cropland	Grassland	Woodland	Urban
Lower Arkansas River Basin—Continued									
32	2.9	10.9	77.3	22.3	13.7	57.9	37.8	3.0	0.6
33	.5	11.1	100	94.7	31.6	90.0	6.3	.7	2.7
Marais des Cygnes River Basin									
34	.5	10.3	100	75.9	63.4	38.6	48.3	7.1	.8
35	.4	10.1	100	91.2	74.7	34.3	58.6	4.2	1.0
36	.4	10.0	100	88.5	71.7	44.3	47.2	4.2	.3
37	.6	10.1	98.4	76.0	55.8	37.9	48.1	13.3	.2
38	.4	10.2	99.6	91.1	79.3	19.4	73.8	2.7	.1
39	.6	10.2	99.1	76.5	54.6	38.8	47.2	12.2	.8
40	.5	10.2	98.9	83.6	71.8	37.1	53.7	7.8	.6
41	.4	10.1	100	88.1	70.3	38.1	56.5	4.0	.9
Missouri River Basin									
42	.8	10.1	100	57.4	45.8	27.5	57.0	11.3	2.5
43	.8	9.9	100	65.4	49.7	13.8	29.4	6.0	50.3
44	.4	9.9	100	87.6	82.2	66.8	26.6	5.9	.4
45	.6	10.2	100	82.0	71.5	64.8	31.6	2.2	.8
46	.9	10.1	100	54.0	38.2	70.8	25.5	2.9	.6
Neosho River Basin									
47	.6	10.8	99.9	74.3	66.7	68.1	20.2	8.9	.8
48	.4	10.0	100	93.7	74.4	18.9	78.1	2.7	.1
49	.4	10.5	99.9	85.7	77.6	50.7	46.8	1.8	.4
50	.5	10.6	99.6	81.6	73.3	41.4	51.6	3.4	2.2
51	.5	10.5	99.8	82.5	73.1	37.6	56.8	2.9	1.0
52	.3	10.2	100	97.2	84.8	29.8	64.1	3.5	.2
53	.5	10.6	100	72.1	66.2	77.6	19.9	1.7	.7
Smoky Hill-Saline River Basin									
54	1.2	10.3	99.7	49.1	6.1	62.3	36.0	.6	.8
55	.9	10.1	99.8	67.7	17.5	43.8	52.3	3.4	.2
56	1.1	9.7	100	33.9	2.7	31.6	66.7	1.1	0
57	1.3	10.3	99.4	14.7	2.3	67.9	31.7	.1	.1
58	1.3	10.5	99.1	32.9	2.2	74.4	25.5	0	0
59	.3	10.2	100	91.9	84.0	47.6	48.6	2.7	.5
60	1.1	10.0	99.1	40.8	12.9	27.8	68.0	1.9	1.6
61	1.4	10.0	97.6	27.2	6.8	47.5	50.9	.7	.1
62	1.4	10.2	96.9	56.7	5.1	51.5	46.5	1.0	.3
63	1.7	10.1	94.8	19.9	6.1	50.6	48.2	.1	0

Table 1. Potential contributing areas for combined infiltration- and saturation-excess overland flows, and land use for selected subbasins in Kansas—Continued

Subbasin number (fig. 1)	Mean P	Mean TWI	Potential contributing area, in percentage of subbasin, for selected potential-runoff conditions			Land use, in percentage of subbasin			
			Low potential runoff[1]	Very low potential runoff[2]	Extremely low potential runoff[3]	Cropland	Grassland	Woodland	Urban
Smoky Hill-Saline River Basin—Continued									
64	.9	10.0	100	65.6	9.8	54.1	44.3	1.1	0
Solomon River Basin									
65	1.2	10.0	99.9	33.3	1.5	51.5	45.2	2.5	.5
66	1.5	10.2	96.0	4.6	1.0	70.0	28.8	1.0	0
67	1.1	10.1	99.6	57.9	8.7	58.0	38.3	3.4	.1
68	1.2	10.0	99.0	33.5	2.6	59.7	38.0	1.8	.3
69	1.1	10.0	99.9	59.2	5.7	54.9	42.4	2.3	.1
70	1.0	10.0	100	60.4	10.5	44.7	50.7	4.0	.2
71	1.0	9.9	100	55.1	9.7	43.8	54.5	1.3	0
72	1.0	10.3	99.5	67.3	11.2	60.4	34.7	2.7	.4
73	1.3	10.0	97.5	54.6	6.1	50.0	48.7	.9	.2
74	1.6	10.2	97.2	6.9	1.6	61.1	37.8	.6	.2
Upper Arkansas River Basin									
75	.9	10.5	99.9	66.4	18.5	68.7	30.7	.1	.2
76	1.1	10.6	98.8	67.3	8.8	71.1	28.3	.1	0
77	1.1	10.5	99.4	60.4	3.5	69.6	29.5	.2	.6
Upper Republican River Basin									
78	1.3	10.3	99.0	5.5	1.4	65.0	34.6	.2	.1
79	1.3	10.2	99.8	5.4	2.1	67.0	31.8	.6	.4
80	1.3	10.3	99.9	4.9	1.3	67.7	31.7	.3	.2
Verdigris River Basin									
81	.7	10.3	90.4	66.5	60.8	33.0	57.1	6.6	.6
82	.8	10.2	90.1	64.6	57.3	31.5	61.9	4.7	1.3
83	.7	10.3	94.7	76.1	67.1	15.1	78.0	5.4	.3
84	.4	9.9	100	95.6	84.0	4.4	90.3	3.3	.3
85	1.0	10.3	81.5	54.5	49.0	24.6	65.9	6.6	2.6
86	.5	10.6	99.1	80.0	73.8	33.4	62.6	2.5	.3
87	.4	10.2	99.7	93.9	82.1	6.6	88.9	2.9	.1
Walnut River Basin									
88	.5	10.3	100	88.0	64.8	15.1	82.3	1.9	.1
89	.5	10.7	100	86.5	62.8	23.1	71.9	2.7	.7
90	.4	10.7	100	91.9	82.0	11.9	80.9	1.1	.1
91	.3	10.9	100	92.3	87.0	64.6	32.3	1.9	.5

[1]Low potential runoff = soil permeability less than or equal to 1.71 inches per hour and topographic wetness index greater than or equal to 12.4
[2]Very low potential runoff = soil permeability less than or equal to 1.14 inches per hour and topographic wetness index greater than or equal to 14.4
[3]Extremely low potential runoff = soil permeability less than or equal to 0.57 inch per hour and topographic wetness index greater than or equal to 16.3.