

SECPop2000 V3.12 MACCS2 Site Data File for Clinton - ESP Year 2060
 Lat: 40d10'19'' Long: 88d50' 3'' Population multiplier: 1.0000
 06/15/2004
 9 SPATIAL INTERVALS
 16 WIND DIRECTIONS
 7 CROP CATEGORIES
 4 WATER PATHWAY ISOTOPES
 2 WATERSHEDS
 97 ECONOMIC REGIONS
 SPATIAL DISTANCES KILOMETERS
 2.0000 4.0000 6.0000 8.0000 10.0000 16.0000 40.0000
 60.0000
 80.0000
 POPULATION
 0. 8. 14. 28. 22. 64. 14161.
 7337.
 8289.
 0. 8. 10. 47. 28. 88. 11942.
 3276.
 12218.
 1116. 4. 4. 9. 8. 75. 2477.
 4243.
 3478.
 1. 3. 385. 14. 24. 140. 4344.
 10763.
 23317.
 0. 2. 699. 35. 10. 42. 13436.
 162749.
 11440.
 0. 0. 10. 5. 34. 60. 4102.
 32133.
 11071.
 0. 1849. 12. 9. 505. 39. 9070.
 3902.
 12138.
 0. 7. 7. 9. 13. 76. 3064.
 6480.
 10841.
 630. 1. 19. 9. 12. 75. 15591.
 15096.
 49049.
 0. 0. 77. 18. 11. 59. 74651.
 17578.
 20653.
 0. 437. 20. 40. 624. 476. 4356.
 3779.
 26954.
 0. 725. 24. 18. 169. 2253. 1599.
 4078.
 74884.
 0. 49. 31. 20. 1054. 7520. 1450.
 25290.
 8052.
 1. 13. 7. 10. 21. 640. 4384.
 4265.
 14015.
 4. 9. 9. 10. 10. 255. 3990.
 8565.
 64370.
 73. 9. 11. 8. 12. 66. 108695.

49741.

25796.

LAND FRACTION

0.99	0.90	0.95	0.99	0.99	0.99	1.00	1.00	0.99
0.99	0.99	0.99	0.99	0.99	0.99	1.00	0.99	0.99
0.99	0.99	0.99	0.99	0.99	0.99	1.00	0.98	0.98
0.99	0.99	0.99	0.97	0.95	0.97	0.98	0.96	0.97
0.99	0.99	0.85	0.97	0.99	0.99	0.98	0.95	0.96
0.90	0.95	0.80	0.99	0.99	0.99	0.99	0.95	0.97
0.33	0.25	0.95	0.99	0.99	1.00	1.00	0.99	1.00
0.25	0.95	0.99	0.99	0.99	0.99	0.99	0.99	0.99
0.33	0.33	0.97	0.99	0.99	0.98	0.98	0.98	1.00
0.99	0.66	0.90	0.99	0.99	0.99	0.98	0.98	0.98
0.99	0.95	0.85	0.99	0.99	0.99	0.98	0.98	0.97
0.99	0.75	0.99	0.99	0.99	0.99	0.99	0.99	0.98
0.75	0.75	0.99	0.99	0.99	0.99	1.00	1.00	1.00
0.05	0.95	0.99	0.99	0.99	0.99	0.99	1.00	1.00
0.66	0.99	0.99	0.99	0.99	0.99	1.00	1.00	1.00
0.99	0.90	0.99	0.99	0.99	0.99	1.00	1.00	1.00

REGION INDEX

1 2 2 2 3 4 5 6 7
1 8 8 8 910111213
11414141516171819
12020202122232425
12626262728293031
13232323334353637
13838383940414243
14444444546474849
15050505152535455
15656565758596061
16262626364656667
16868686970717273
17474747576777879
18080808182838485
18686868788899091
19292929394959697

WATERSHED INDEX

1 1 1 1 1 1 1 1 1
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CROP SEASON AND SHARE

1 PASTURE	90.	270.	0.0570
2 STORED FORAGE	150.	240.	0.0110
3 GRAINS	150.	240.	0.4690
4 GRN LEAFY VEGETABLES	150.	240.	0.0020
5 OTHER FOOD CROPS	150.	240.	0.0010
6 LEGUMES AND SEEDS	150.	240.	0.4330

7 ROOTS AND TUBERS 150. 240. 0.0010
 WATERSHED DEFINITION -- INITIAL AND ANNUAL WASHOFF AND INGESTION
 FACTORS

1 Sr-89			5.00E-06	0.0
2 Sr-90			5.00E-06	0.0
3 Cs-134			5.00E-06	0.0
4 Cs-137			5.00E-06	0.0

REGIONAL ECONOMIC DATA

1 EXCLUSION	.970	.001	1455.0	5674.0	108946.0
2 REGION_02	.970	.001	1455.0	5674.0	108946.0
3 REGION_03	.970	.001	1455.0	5674.0	108946.0
4 REGION_04	.949	.004	1400.4	5557.9	107288.2
5 REGION_05	.936	.006	1368.0	5489.0	106305.0
6 REGION_06	.936	.006	1368.0	5489.0	106305.0
7 REGION_07	.909	.009	1081.6	4719.6	106173.7
8 REGION_08	.970	.001	1455.0	5674.0	108946.0
9 REGION_09	.970	.001	1455.0	5674.0	108946.0
10 REGION_10	.954	.003	1413.2	5585.0	107676.0
11 REGION_11	.936	.006	1368.0	5489.0	106305.0
12 REGION_12	.933	.006	1345.0	5458.7	106654.7
13 REGION_13	.911	.004	1196.6	5262.8	108912.3
14 REGION_14	.970	.001	1455.0	5674.0	108946.0
15 REGION_15	.970	.001	1455.0	5674.0	108946.0
16 REGION_16	.970	.001	1455.0	5674.0	108946.0
17 REGION_17	.938	.005	1373.3	5500.2	106465.2
18 REGION_18	.855	.026	1094.9	4989.4	106321.5
19 REGION_19	.859	.022	1049.3	4913.4	107159.7
20 REGION_20	.970	.001	1455.0	5674.0	108946.0
21 REGION_21	.970	.001	1455.0	5674.0	108946.0
22 REGION_22	.970	.001	1455.0	5674.0	108946.0
23 REGION_23	.851	.138	892.5	3916.1	99282.5
24 REGION_24	.766	.376	926.4	3822.0	107057.4
25 REGION_25	.802	.217	936.7	4173.0	106012.7
26 REGION_26	.970	.001	1455.0	5674.0	108946.0
27 REGION_27	.970	.001	1455.0	5674.0	108946.0
28 REGION_28	.917	.006	1022.6	4419.6	99290.7
29 REGION_29	.795	.204	555.2	2852.9	93398.4
30 REGION_30	.754	.448	912.0	3616.0	107209.8
31 REGION_31	.741	.426	798.0	3341.3	100746.0
32 REGION_32	.970	.001	1455.0	5674.0	108946.0
33 REGION_33	.970	.001	1455.0	5674.0	108946.0
34 REGION_34	.908	.007	945.8	4197.1	97577.7
35 REGION_35	.804	.146	469.5	2669.6	90080.6
36 REGION_36	.754	.448	912.0	3616.0	107210.0
37 REGION_37	.798	.324	933.4	4380.5	105480.0
38 REGION_38	.970	.001	1455.0	5674.0	108946.0
39 REGION_39	.970	.001	1455.0	5674.0	108946.0
40 REGION_40	.875	.010	680.2	3426.6	91646.8
41 REGION_41	.825	.019	284.0	2272.8	82899.4
42 REGION_42	.853	.108	815.2	4717.1	98423.2
43 REGION_43	.922	.001	969.6	5970.2	102433.6
44 REGION_44	.970	.001	1455.0	5674.0	108946.0
45 REGION_45	.970	.001	1455.0	5674.0	108946.0
46 REGION_46	.909	.005	1319.3	6432.9	111675.2
47 REGION_47	.813	.015	450.6	3638.4	90907.2
48 REGION_48	.644	.049	1039.1	3147.5	82166.9
49 REGION_49	.689	.056	1068.8	3362.3	87114.7
50 REGION_50	.970	.001	1455.0	5674.0	108946.0
51 REGION_51	.970	.001	1455.0	5674.0	108946.0
52 REGION_52	.865	.008	1240.3	7077.7	114278.8

53	REGION_53	.769	.014	1043.0	8368.0	119181.0
54	REGION_54	.696	.058	1065.3	6445.5	104299.2
55	REGION_55	.578	.364	395.4	2320.5	69707.5
56	REGION_56	.970	.001	1455.0	5674.0	108946.0
57	REGION_57	.970	.001	1455.0	5674.0	108946.0
58	REGION_58	.905	.005	1321.5	6546.6	112261.3
59	REGION_59	.769	.014	1043.0	8368.0	119181.0
60	REGION_60	.780	.025	1061.8	7860.5	116496.5
61	REGION_61	.839	.096	1141.7	4887.4	100231.0
62	REGION_62	.970	.001	1455.0	5674.0	108946.0
63	REGION_63	.970	.001	1455.0	5674.0	108946.0
64	REGION_64	.970	.001	1455.0	5674.0	108946.0
65	REGION_65	.820	.011	1066.6	7727.2	117116.3
66	REGION_66	.821	.044	741.6	4773.4	100152.9
67	REGION_67	.830	.061	753.1	3774.2	94566.4
68	REGION_68	.970	.001	1455.0	5674.0	108946.0
69	REGION_69	.970	.001	1455.0	5674.0	108946.0
70	REGION_70	.970	.001	1455.0	5674.0	108946.0
71	REGION_71	.959	.004	1151.3	5985.2	111401.5
72	REGION_72	.949	.010	897.3	5692.6	110015.0
73	REGION_73	.847	.041	492.8	3535.7	93067.7
74	REGION_74	.970	.001	1455.0	5674.0	108946.0
75	REGION_75	.970	.001	1455.0	5674.0	108946.0
76	REGION_76	.970	.001	1455.0	5674.0	108946.0
77	REGION_77	.967	.004	1127.3	5902.6	111269.7
78	REGION_78	.966	.005	959.0	6020.0	112463.0
79	REGION_79	.892	.010	698.9	4847.1	107672.6
80	REGION_80	.970	.001	1455.0	5674.0	108946.0
81	REGION_81	.970	.001	1455.0	5674.0	108946.0
82	REGION_82	.970	.001	1455.0	5674.0	108946.0
83	REGION_83	.956	.004	1285.2	5701.6	108945.8
84	REGION_84	.771	.132	580.2	5951.1	111854.1
85	REGION_85	.674	.188	349.5	5771.1	111580.1
86	REGION_86	.970	.001	1455.0	5674.0	108946.0
87	REGION_87	.970	.001	1455.0	5674.0	108946.0
88	REGION_88	.970	.001	1455.0	5674.0	108946.0
89	REGION_89	.938	.006	1372.2	5497.9	106431.4
90	REGION_90	.810	.096	886.0	5568.6	108299.8
91	REGION_91	.668	.196	303.7	5452.8	109844.9
92	REGION_92	.970	.001	1455.0	5674.0	108946.0
93	REGION_93	.970	.001	1455.0	5674.0	108946.0
94	REGION_94	.952	.003	1410.2	5578.7	107586.2
95	REGION_95	.936	.006	1368.0	5489.0	106305.2
96	REGION_96	.920	.012	1108.8	4545.7	103353.3
97	REGION_97	.872	.031	347.0	1773.0	94676.9

END

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*23456789012345678901234567890123456789012345678901234567890a1
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* SPATIAL DISTANCES

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* REF/BASIS:

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* MATCHES THE CLINTON ESP - 2,4,6,8,10,16,40,60,80 Km

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* POPULATION

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* REF/BASIS:

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* CLINTON ESP, ENVIRONMENTAL REPORT, TABLES 2.5-2 and 2.5-4.
* YEAR 2060, RESIDENTIAL AND TRANSIENT POPULATION

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* LAND FRACTION

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* REF/BASIS:

*
* DEVELOPED FROM SECPOP2000 COMPUTER CODE (NUREG/CR-6613)
*
* TO ASSURE THE VALIDITY OF THE LAND AREA FRACTION DATA, THE MACCS
* GRID WAS SUPEIMPOSED ON MAP OF THE 0 TO 50 MILE REGION (ESP SSAR
Figure 2.1-2)
* AROUND CLINTON SITE AND A VISUAL/EYEBALL CHECK MADE OF THE
APPROPRIATENESS OF
* THE MAP LAND FRACTION. IF IT APPEARED THAT THE VALUE WAS NOT
* REPRESENTITIVE THEN IT WAS MANUALLY ADJUSTED.

*

* REGION INDEX

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* REF/BASIS:

*
* DEVELOPED BY SECPOP2000 USING 1997-99 COUNTY CENSUS ECONOMIC DATA.

*

* CROP SEASON AND SHARE

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* REF/BASIS:

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* SECPOP2000 DOES NOT CALCULATE CROP INFORMATION.

*

* CROP CATAGORIES DEFINED IN NUREG/CR-4551, VOL.2 REV.1,PART 7, TABLE 4.1

*
* VALUES ARE BASED ON 1997 CENSUS OF AGRICULTURE FOR THE COUNTIES WITHIN 50 MILES. U.S. DEPT OF AGRICULTURE, WITH THE FOLLOWING CONSIDERATIONS:
*

* PASTURE - ESTIMATED FROM DIFFERENCE BETWEEN TOTAL FARMLAND AND TOTAL CROPLAND

- * STORED FORAGE - HAY, ALFALFA, ETC
- * GRAINS - CORN, WHEAT, BARLEY, OATS
- * GRN LEAFY VEGETABLES - MINIMAL
- * OTHER FOOD CROPS - ORCHARDS - MINIMAL
- * LEGUMES AND SEEDS - BEANS AND SEEDS
- * ROOTS AND TUBERS - POTATOES, CARROTS, ETC

* TOTAL FRACTION NEED NOT EQUAL 1.0 SINCE SOME LAND LIES FALLOW EACH YEAR

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* WATERSHED INDEX

* REF/BASIS:

* SECPOP2000 DOES NOT CALCULATE WATERSHED INDEXES.

* NUREG/CR-4551 (VOL.2, REV.1, PART 7) PAGE 2-37 NOTES THAT LAKE SHOULD ONLY

* BE DEFINED FOR VERY LARGE BODIES OF WATER (E.G. LAKE MICHIGAN). THE LAKES

* AROUND CLINTON ARE SMALL IN NATURE AND ARE EXPECTED TO BEHAVE SIMILAR TO

* RIVER SYSTEMS. THEREFORE, ALL SECTOR REGIONS ARE DESIGNATED AS RIVERS.

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* WATERSHED DEFINITION

* REF/BASIS:

* SECPOP2000 DOES NOT CALCULATE WATERSHED DEFINITIONS (WATER PATHWAY ISOTOPES)

* THE VALUES USED ARE TAKEN FROM NUREG/CR-4551, VOL. 2, REV. 1, PART 7, SECTION 2.8, TABLE 2.16.

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* REGIONAL ECONOMIC DATA

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* REF/BASIS:
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* DEVELOPED BY SECPOP2000 USING 1997, 1998, 1999 COUNTY CENSUS ECONOMIC
DATA
* CAUTION -- WHEN CUTTING AND PASTING SECPop REGIONAL DATA, FORMATTING
MUST
* BE MANUALLY ADJUSTED. SECPop2000 DOES NOT FORMAT THIS
SECTION
* CORRECTLY FOR MACCS2.
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