

Watershed Model Application to Calculate Bay Nutrient Loadings

Final Findings and Recommendations

Appendix E Land Use and Selected Parameter Values

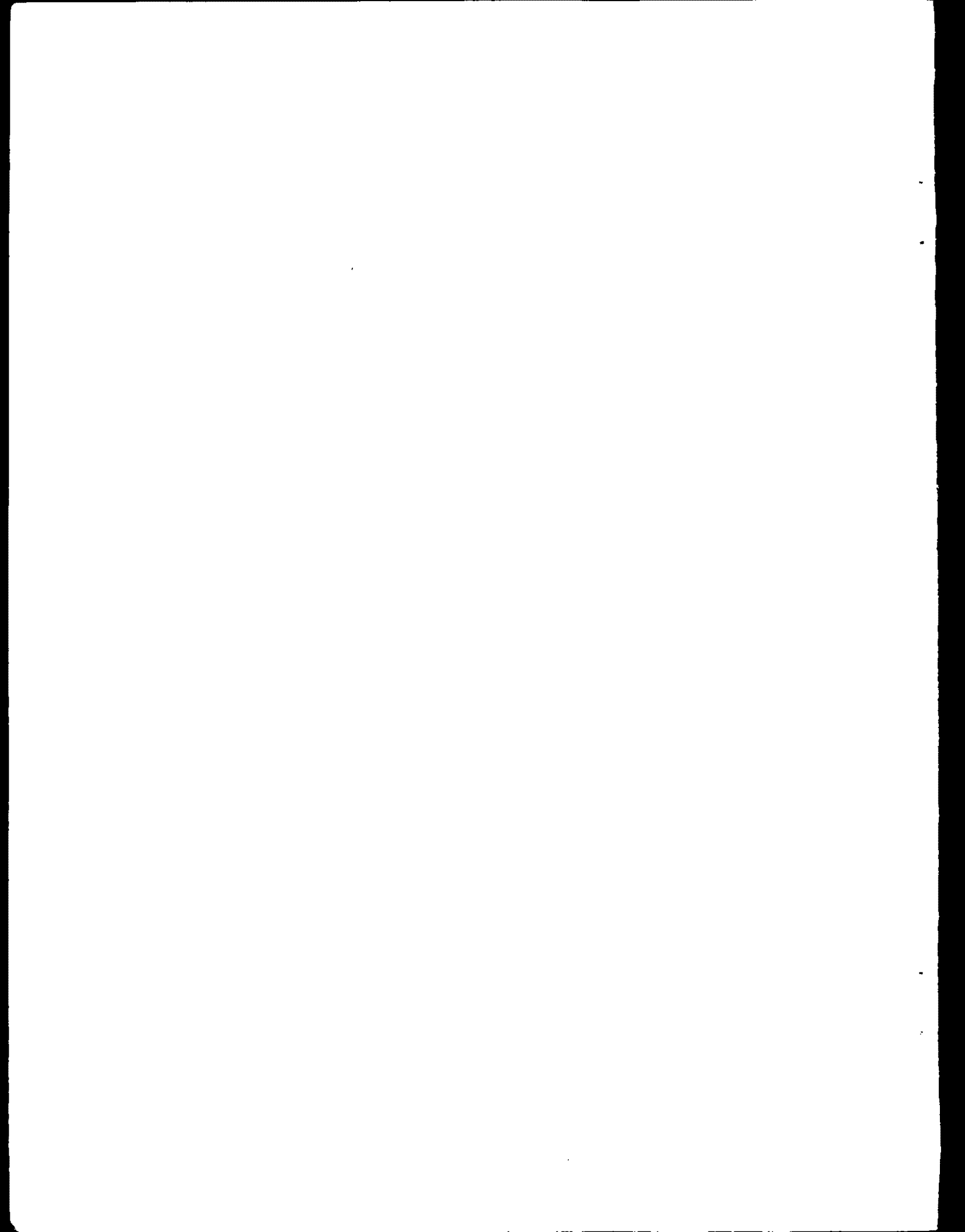
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Watershed Model Application to Calculate Bay Nutrient Loadings: Final Findings and Recommendations

Appendix E Land Use and Selected Parameter Values

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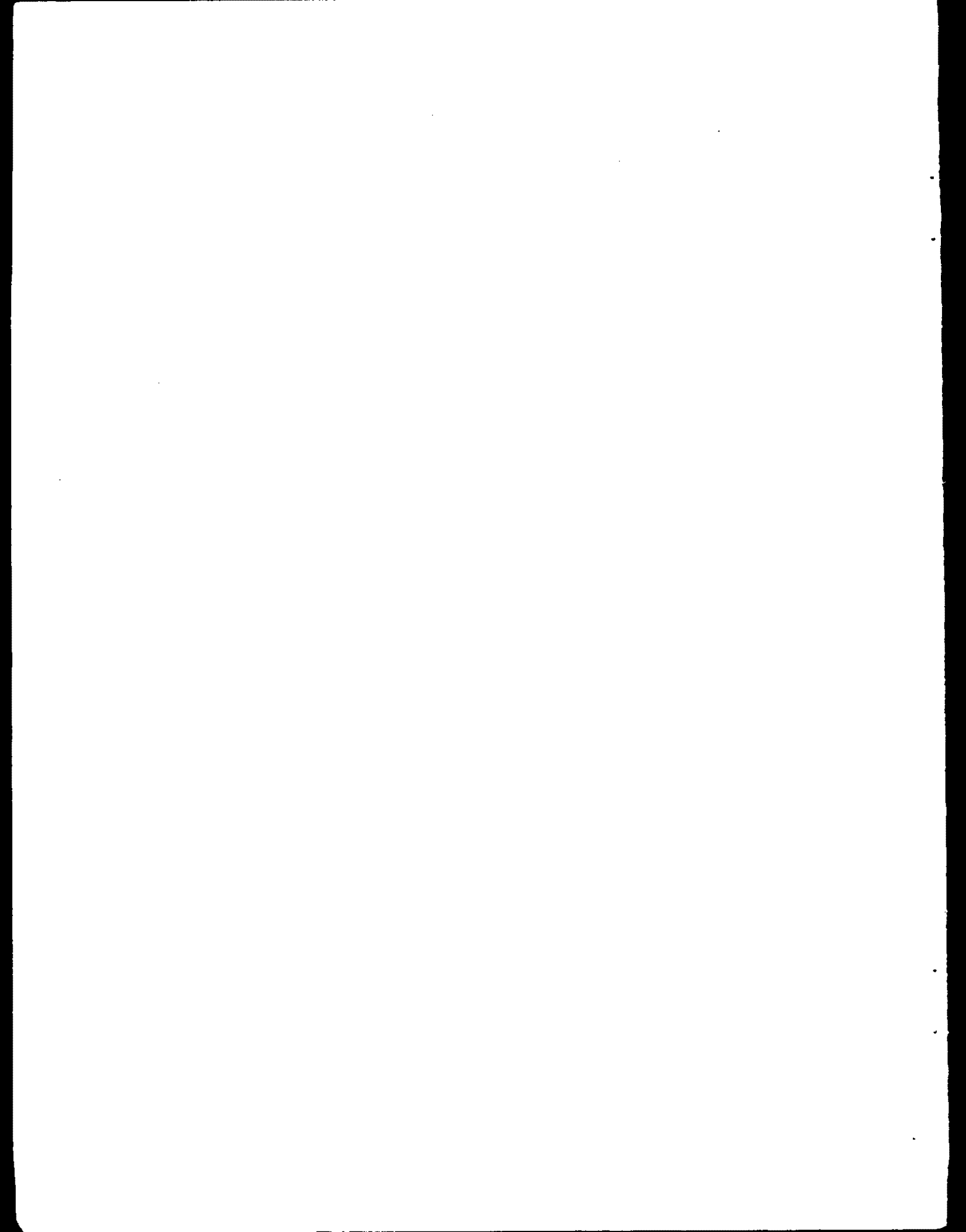
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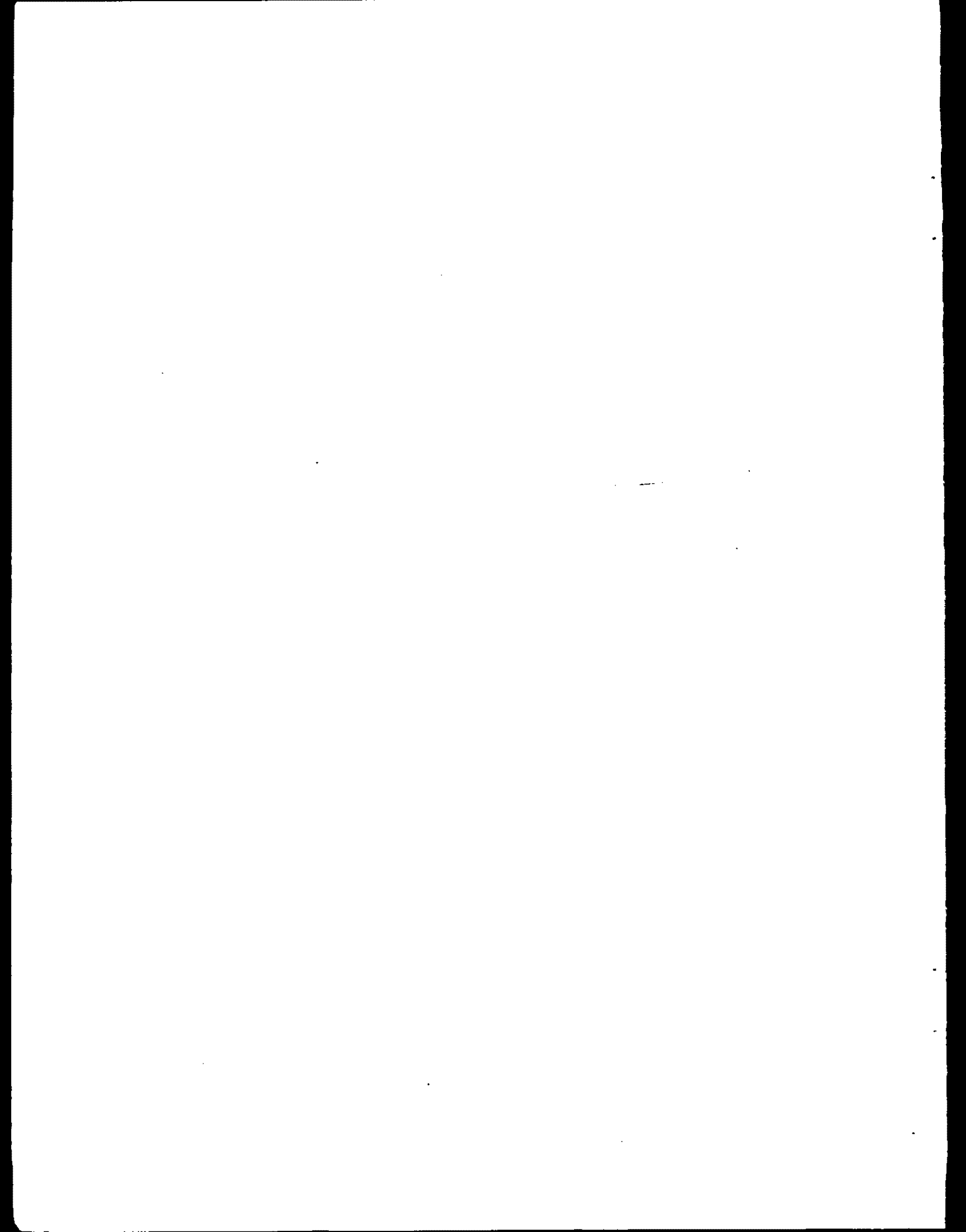
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APPENDIX E

LAND USE AND SELECTED PARAMETER VALUES

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APPENDIX E.1 FINAL 1978 LAND USE BY COUNTY (ACRES).

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
DC	WASHINGTON	37760	0	0	3200	34560
DE	KENT	380633	194000	8800	149833	28000
DE	NEW CASTLE	253222	101893	6184	71145	74000
DE	SUSSEX	602848	293682	10665	260295	38206
MD	ALLEGANY	269286	28000	35000	183286	23000
MD	ANNE ARUNDEL	267756	23217	5798	126010	112731
MD	BALTIMORE	433881	62700	29800	147560	193821
MD	CALVERT	136467	25000	3500	87967	20000
MD	CAROLINE	205305	102564	3188	77920	21633
MD	CARROLL	289267	136000	49000	81267	23000
MD	CECIL	230112	60000	14158	87991	67963
MD	CHARLES	289011	40363	5000	193000	50648
MD	DORCHESTER	379660	110000	2500	257160	10000
MD	FREDERICK	424140	163000	54000	137140	70000
MD	GARRETT	420371	45100	30992	305779	38500
MD	HARFORD	286489	69600	34658	138673	43558
MD	HOWARD	160640	33644	20600	52396	54000
MD	KENT	178137	107765	5947	53152	11273
MD	MONTGOMERY	317081	75000	27000	95081	120000
MD	PRINCE GEORGES	311686	32811	10650	134686	133539
MD	QUEEN ANNES	237990	133908	5147	66127	32808
MD	SOMERSET	216582	39064	2060	172062	3396
MD	ST MARYS	238425	53000	7000	126425	52000
MD	TALBOT	165516	92392	3509	45404	24211
MD	WASHINGTON	291180	105200	48100	98280	39600
MD	WICOMICO	242624	74279	2735	121780	43830
MD	WORCESTER	303910	78680	4635	210595	10000
NY	ALLEGANY	660550	94357	49881	421500	94812
NY	BROOME	455366	54272	36960	279400	84734
NY	CHEMUNG	262854	32141	15582	158000	57131
NY	CHENANGO	574278	98270	70360	340300	65348
NY	CORTLAND	320185	73900	49611	158100	38574
NY	DELAWARE	921395	98706	97530	624300	100859
NY	HERKIMER	906528	92257	59432	388100	366739
NY	LIVINGSTON	404928	160846	36286	120100	87696
NY	MADISON	419968	122263	51245	196200	50260
NY	ONEIDA	780064	139974	78355	413200	148535
NY	ONONDAGA	502060	116558	26200	199900	159402
NY	ONTARIO	412185	159371	24094	142700	86020
NY	OTSEGO	642432	114835	78994	369500	79103
NY	SCHOHARIE	399328	79781	38345	256700	24502
NY	SCHUYLER	210784	38527	16146	122200	33911

CROPLAND - land that is used for a harvestable crop.

PASTURE - land that is a permanent grass cover and is used to graze animals.

WOODLAND - land in forest, orchards, nurseries, or idle land. In some counties this category also contains wetlands.

URBAN - land that is developed or built-up; including roads, residential, commercial, industrial, and urban open land such as parks, golf courses, and cemeteries.

APPENDIX E.1 (continued) FINAL 1978 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
NY	STEUBEN	893574	200683	84580	478100	130211
NY	TIOGA	332275	61538	30792	193600	46345
NY	TOMPKINS	305184	69041	18216	171500	46427
NY	YATES	216928	74265	10943	84000	47720
PA	ADAMS	333318	135100	37700	141618	18900
PA	BEDFORD	650636	138900	57000	438536	16200
PA	BERKS	550880	228400	39500	220080	62900
PA	BLAIR	337414	52400	12800	246514	25700
PA	BRADFORD	737350	233600	104200	374950	24600
PA	CAMBRIA	442284	60700	44900	300384	36300
PA	CAMERON	254976	1000	900	248900	4176
PA	CENTRE	707891	88700	33900	553291	32000
PA	CHESTER	484851	143400	81900	106951	152600
PA	CLEARFIELD	735289	54500	47300	596889	36600
PA	CLINTON	570464	29800	7000	521464	12200
PA	COLUMBIA	310988	103600	12800	168388	26200
PA	CUMBERLAND	349836	131100	24300	139236	55200
PA	DAUPHIN	337785	91700	18200	173985	53900
PA	ELK	531142	8604	3625	506913	12000
PA	FRANKLIN	495078	164800	54100	238978	37200
PA	FULTON	280012	59500	17300	195412	7800
PA	HUNTINGDON	561433	86000	37200	424033	14200
PA	INDIANA	530656	96100	63400	342656	28500
PA	JUNIATA	250649	62300	11600	163149	13600
PA	LACKAWANNA	295104	32700	17700	190604	54100
PA	LANCASTER	609356	322000	69300	129756	88300
PA	LEBANON	232019	96400	17700	94819	23100
PA	LUZERNE	570220	53800	9700	441620	65100
PA	LYCOMING	791852	109500	35100	620652	26600
PA	MCKEAN	626342	13700	16300	575942	20400
PA	MIFFLIN	264128	50000	16100	186228	11800
PA	MONTOUR	83852	42600	3500	29952	7800
PA	NORTHUMBERLAND	294848	122400	11800	136748	23900
PA	PERRY	356217	76900	12800	252117	14400
PA	POTTER	692064	39700	50900	588364	13100
PA	SCHUYLKILL	500179	83600	10400	373979	32200
PA	SNYDER	210656	69700	9100	120156	11700
PA	SOMERSET	686944	132000	69300	453144	32500
PA	SULLIVAN	288614	14467	9140	261992	3015
PA	SUSQUEHANNA	528614	113300	57000	336314	22000
PA	TIOGA	723974	113700	102000	491274	17000
PA	UNION	202835	57800	6800	129835	8400
PA	WAYNE	467993	67800	42300	324293	33600
PA	WYOMING	255609	36900	10000	198809	9900
PA	YORK	579788	240700	80600	189888	68600
VA	ACCOMACK	304435	79319	1697	213819	9600
VA	ALBEMARLE	470828	45025	76899	330274	18630
VA	ALLEGHANY	290315	10152	9328	263730	7105
VA	AMELIA	228409	38825	12171	175098	2315
VA	AMHERST	306246	23211	52504	213475	12056

APPENDIX E.1 (continued) FINAL 1978 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
VA	APPOMATTOX	215078	33403	24399	154276	3000
VA	ARLINGTON	16614	0	0	0	16614
VA	AUGUSTA	643096	115236	147352	357156	23352
VA	BATH	344051	8063	19735	312812	3441
VA	BEDFORD	482617	75008	81994	321119	4496
VA	BOTETOURT	348550	40716	48108	250712	9014
VA	BUCKINGHAM	373401	35173	38678	294545	5005
VA	CAMPBELL	355040	56930	41002	222808	34300
VA	CAROLINE	342694	36271	7279	283014	16130
VA	CHARLES CITY	116128	14371	1000	98071	2686
VA	CHESAPEAKE CITY	270656	46579	1114	173612	49351
VA	CHESTERFIELD	282828	9656	2242	217538	53392
VA	CLARKE	114137	32061	40663	40271	1142
VA	COLONIAL HEIGHTS	0	0	0	0	0
VA	CRAIG	211084	7187	20023	172874	1000
VA	CULPEPER	244480	47810	57863	136484	2323
VA	CUMBERLAND	191712	28240	27481	133011	2980
VA	DINWIDDIE	339129	52135	11185	254201	21608
VA	ESSEX	168051	40214	4228	119678	3931
VA	FAIRFAX	266590	12061	5330	122252	126407
VA	FAUQUIER	416569	98835	101249	205617	10868
VA	FLUVANNA	185510	22742	14936	139853	7979
VA	FREDERICK	271532	59311	51046	154412	6763
VA	FREDERICKSBURG	3904	0	0	0	3904
VA	GILES	231654	32434	30412	165800	3008
VA	GLOUCESTER	144121	18074	1174	112864	12009
VA	GOOCHLAND	180032	28178	14827	143961	3066
VA	GREENE	100371	9672	19088	70569	6042
VA	HAMPTON	32838	0	0	0	32838
VA	HANOVER	299155	69228	10827	194896	24204
VA	HENRICO	190828	37739	3636	101142	48311
VA	HIGHLAND	266112	9859	47682	207571	1000
VA	ISLE OF WRIGHT	204454	60433	6749	127250	10022
VA	JAMES CITY	101292	19314	1577	67707	12694
VA	KING AND QUEEN	202982	25679	1874	173179	2250
VA	KING GEORGE	115244	20531	8067	81235	5411
VA	KING WILLIAM	177766	37506	5665	129043	3127
VA	LANCASTER	85043	18014	662	56462	9905
VA	LOUDOUN	333497	97739	98960	128727	8071
VA	LOUISA	317804	36863	13685	251215	16041
VA	MADISON	205913	33067	51845	117561	3440
VA	MATHEWS	55776	12675	0	41097	2004
VA	MIDDLESEX	85728	20490	1145	60176	3917
VA	MONTGOMERY	254073	42218	68802	130300	12753
VA	NELSON	303590	22380	28202	243021	9987
VA	NEW KENT	136256	13364	1426	116222	5244
VA	NEWPORT NEWS	41786	0	0	0	41786
VA	NORFOLK	33926	0	0	0	33926
VA	NORTHAMPTON	144601	59094	1151	80741	3615

APPENDIX E.1 (continued) FINAL 1978 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
VA	NORTHUMBERLAND	118105	35107	955	76623	5420
VA	NOTTOWAY	202502	23411	20288	134110	24693
VA	ORANGE	218822	33883	40301	138438	6200
VA	PAGE	200345	30093	29714	131691	8847
VA	PORTSMOUTH	19123	0	0	0	19123
VA	POWHATAN	167161	15179	13549	132165	6268
VA	PRINCE EDWARD	226252	32878	24059	161308	6007
VA	PRINCE GEORGE	176620	32679	3837	132061	8043
VA	PRINCE WILLIAM	218494	32604	33039	105975	46876
VA	RAPPAHANNOCK	170969	17565	40641	111053	1710
VA	RICHMOND	123334	27469	1047	90839	3979
VA	ROANOKE	197470	7670	21887	131827	36086
VA	ROCKBRIDGE	389382	57532	55413	266468	9969
VA	ROCKINGHAM	557355	84404	108825	353054	11072
VA	SHENANDOAH	327833	40787	60884	220781	5381
VA	SPOTSYLVANIA	262470	35338	11139	201372	14621
VA	STAFFORD	173510	19948	5965	136711	10886
VA	SUFFOLK	261868	62888	3487	169839	25654
VA	SURRY	180057	35227	3261	137509	4060
VA	VIRGINIA BEACH	163795	51922	1567	64614	45692
VA	WARREN	139052	13046	28999	90518	6489
VA	WESTMORELAND	145049	41196	2129	93754	7970
VA	YORK	157900	1799	1000	38425	116676
WV	BERKELEY	205734	46600	28300	104835	25999
WV	GRANT	307392	22863	46353	229065	9111
WV	HAMPSHIRE	412454	21580	64350	302580	23944
WV	HARDY	374144	20900	50600	290827	11817
WV	JEFFERSON	133964	57713	28482	31120	16649
WV	MINERAL	210784	23064	22366	156468	8886
WV	MONROE	302816	35000	74856	188520	4440
WV	MORGAN	146956	15269	7440	115796	8451
WV	PENDLETON	446764	21730	80895	338243	5896

APPENDIX E.2 FINAL 1985 LAND USE BY COUNTY (ACRES).

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
DC	WASHINGTON	37760	0	0	3100	34660
DE	KENT	380633	196000	6000	148633	30000
DE	NEW CASTLE	253222	97660	5800	69762	69762
DE	SUSSEX	602848	290000	4800	260048	48000
MD	ALLEGANY	269286	20000	45000	181186	23100
MD	ANNE ARUNDEL	267756	17500	6200	112756	131300
MD	BALTIMORE	433881	62700	29800	122661	218720
MD	CALVERT	136467	24000	3100	73367	36000
MD	CAROLINE	205305	105180	3000	75125	22000
MD	CARROLL	289267	136100	43200	84967	25000
MD	CECIL	230112	60900	13280	87932	68000
MD	CHARLES	289011	38000	5000	191011	55000
MD	DORCHESTER	379660	110000	2000	257410	10250
MD	FREDERICK	424140	163000	54000	135140	72000
MD	GARRETT	420371	45100	30992	305779	38500
MD	HARFORD	286489	69600	26100	146289	44500
MD	HOWARD	160640	32800	21600	50240	56000
MD	KENT	178137	109600	4000	52637	11900
MD	MONTGOMERY	317081	70000	24000	98081	125000
MD	PRINCE GEORGES	311686	32811	4000	115875	159000
MD	QUEEN ANNES	237990	131000	5000	66990	35000
MD	SOMERSET	216582	40000	2000	171082	3500
MD	ST MARYS	238425	46000	7500	132125	52800
MD	TALBOT	165516	95000	3500	42016	25000
MD	WASHINGTON	291180	105200	48100	96680	41200
MD	WICOMICO	242624	70000	2200	125924	44500
MD	WORCESTER	303910	85315	4635	203500	10460
NY	ALLEGANY	660550	92630	42056	429500	96364
NY	BROOME	455366	52601	31406	285900	85459
NY	CHEMUNG	262854	31444	12365	161200	57845
NY	CHENANGO	574278	93092	56600	358300	66286
NY	CORTLAND	320185	76158	42589	162100	39338
NY	DELAWARE	921395	94219	85399	638300	103477
NY	HERKIMER	906528	93273	51900	392100	369255
NY	LIVINGSTON	404928	163622	28448	124100	88758
NY	MADISON	419968	123466	46842	199200	50460
NY	ONEIDA	780064	147285	71944	412300	148535
NY	ONONDAGA	502060	115755	23719	202900	159686
NY	ONTARIO	412185	158702	16579	149700	87204
NY	OTSEGO	642432	114001	64691	384500	79240
NY	SCHOHARIE	399328	72390	34060	267700	25178
NY	SCHUYLER	210784	38885	16088	121900	33911

CROPLAND - land that is used for a harvestable crop.

PASTURE - land that is a permanent grass cover and is used to graze animals.

WOODLAND - land in forest, orchards, nurseries, or idle land. In some counties this category also contains wetlands.

URBAN - land that is developed or built-up; including roads, residential, commercial, industrial, and urban open land such as parks, golf courses, and cemeteries.

APPENDIX E.2 (continued). FINAL 1985 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
NY	STEUBEN	893574	199629	67076	494100	132769
NY	TIOGA	332275	61355	27301	196600	47019
NY	TOMPKINS	305184	66418	17176	174700	46890
NY	YATES	216928	66806	8691	93000	48431
PA	ADAMS	333318	172856	40985	98930	20547
PA	BEDFORD	650636	146232	59073	428541	16789
PA	BERKS	550880	249071	41830	193369	66610
PA	BLAIR	337414	57625	13509	239155	27124
PA	BRADFORD	737350	244809	108827	358022	25692
PA	CAMBRIA	442284	73873	53672	271347	43392
PA	CAMERON	254976	994	4769	244574	4640
PA	CENTRE	707891	93130	35275	546188	33298
PA	CHESTER	484851	153545	86607	83329	161370
PA	CLEARFIELD	735289	58738	50150	587595	38805
PA	CLINTON	570464	31504	7207	519193	12560
PA	COLUMBIA	310988	114043	13466	155915	27564
PA	CUMBERLAND	349836	139100	25338	127839	57559
PA	DAUPHIN	337785	97467	19345	163684	57290
PA	ELK	531142	7744	3723	507334	12341
PA	FRANKLIN	495078	185093	59217	210050	40718
PA	FULTON	280012	61461	17751	192797	8003
PA	HUNTINGTON	561433	95023	40491	410462	15456
PA	INDIANA	530656	104874	68688	326216	30877
PA	JUNIATA	250649	65121	12010	159438	14080
PA	LACKAWANNA	295104	36737	19410	179629	59328
PA	LANCASTER	609356	353196	75220	85097	95843
PA	LEBANON	232019	104655	18960	83660	24744
PA	LUZERNE	570220	65191	11036	419929	74065
PA	LYCOMING	791852	114133	35993	614449	27277
PA	MCKEAN	626342	20483	20998	558581	26280
PA	MIFFLIN	264128	51608	16618	183723	12179
PA	MONTOUR	83852	45825	3739	25957	8332
PA	NORTHUMBERLAND	294848	132725	12754	123538	25832
PA	PERRY	356217	79863	13293	248106	14955
PA	POTTER	692064	42291	51621	584867	13286
PA	SCHUYLKILL	500179	95335	11476	357838	35530
PA	SNYDER	210656	72808	9425	116306	12117
PA	SOMERSET	686944	142290	72880	437596	34179
PA	SULLIVAN	288614	13208	6227	266255	2925
PA	SUSQUEHANNA	528614	124098	62049	318518	23949
PA	TIOGA	723974	126348	110812	468345	18469
PA	UNION	202835	62714	7240	123937	8944
PA	WAYNE	467993	71572	44326	316886	35210
PA	WYOMING	255609	41851	11250	191369	11138
PA	YORK	579788	262103	85494	159426	72765
VA	ACCOMACK	304435	84273	4214	205415	10533
VA	ALBEMARLE	470828	40588	75089	332827	22324
VA	ALLEGHANY	290313	11166	13196	258846	7105
VA	AMELIA	228409	44080	13023	168301	3005
VA	AMHERST	306246	31236	55380	203026	16604

APPENDIX E.2 (continued). FINAL 1985 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
VA	APPOMATTOX	215078	31902	28814	151275	3087
VA	ARLINGTON	16614	0	0	0	16614
VA	AUGUSTA	643096	142573	133473	336715	30335
VA	BATH	344051	18002	13002	308046	5001
VA	BEDFORD	482617	84933	87930	304758	4996
VA	BOTETOURT	348550	46072	53084	239378	10016
VA	BUCKINGHAM	373401	38041	42045	288310	5005
VA	CAMPBELL	355040	64188	40118	212623	38111
VA	CAROLINE	342694	38493	3049	285022	16130
VA	CHARLES CITY	116128	16467	2254	94422	2985
VA	CHESAPEAKE CITY	270656	59594	2483	142777	65802
VA	CHESTERFIELD	282828	9848	3586	200960	68434
VA	CLARKE	114137	30036	40048	38046	6007
VA	COLONIAL HEIGHTS	0	0	0	0	0
VA	CRAIG	211084	17008	26010	167066	1000
VA	CULPEPER	244480	50098	57112	127250	10020
VA	CUMBERLAND	191712	30793	35760	122179	2980
VA	DINWIDDIE	339129	45017	15006	255097	24009
VA	ESSEX	168051	50121	3931	110068	3931
VA	FAIRFAX	266590	9020	7015	91202	159353
VA	FAUQUIER	416569	113882	99896	189804	12987
VA	FLUVANNA	185510	19947	18950	138634	7979
VA	FREDERICK	271532	60118	53103	149293	9018
VA	FREDERICKSBURG	3904	0	0	0	3904
VA	GILES	231654	26074	30085	172487	3008
VA	GLOUCESTER	144121	23019	5005	100084	16013
VA	GOOCHLAND	180032	25952	17955	128893	7232
VA	GREENE	100371	10464	19979	58939	10989
VA	HAMPTON	32838	0	0	0	32838
VA	HANOVER	299155	61991	6948	191885	38331
VA	HENRICO	190828	24113	5676	96624	64415
VA	HIGHLAND	266112	15006	42018	208088	1000
VA	ISLE OF WIGHT	204454	64142	10023	120267	10022
VA	JAMES CITY	101292	10750	1229	72387	16926
VA	KING AND QUEEN	202982	33997	2000	163985	3000
VA	KING GEORGE	115244	22047	10021	77163	6013
VA	KING WILLIAM	177766	40351	6152	127788	3475
VA	LANCASTER	85043	17009	2000	55028	11006
VA	LOUDOUN	333497	102845	91861	108836	29955
VA	LOUISA	317804	41104	23058	237601	16041
VA	MADISON	205913	35006	51478	115311	4118
VA	MATHEWS	55776	8426	1359	43764	2227
VA	MIDDLESEX	85728	19135	2589	60087	3917
VA	MONTGOMERY	254073	44013	80023	113032	17005
VA	NELSON	303590	25964	39946	227693	9987
VA	NEW KENT	136256	15795	2746	111888	5827
VA	NEWPORT NEWS	41786	0	0	0	41786
VA	NORFOLK	33926	0	0	0	33926
VA	NORTHAMPTON	144601	54225	2008	84351	4017

APPENDIX E.2 (continued) FINAL 1985 LAND USE BY COUNTY.

STATE	COUNTY	TOTAL ACRES	CROPLAND	PASTURE	WOODLAND	URBAN
VA	NORTHUMBERLAND	118105	36800	3011	72271	6023
VA	NOTTOWAY	202502	27077	27078	123654	24693
VA	ORANGE	218822	34972	37969	135889	9992
VA	PAGE	200345	31397	28407	131570	8971
VA	PORTSMOUTH	19123	0	0	0	19123
VA	POWHATAN	167161	25870	16915	117411	6965
VA	PRINCE EDWARD	226252	39043	28031	153171	6007
VA	PRINCE GEORGE	176620	27883	7507	130505	10725
VA	PRINCE WILLIAM	218494	34270	16880	104842	62502
VA	RAPPAHANNOCK	170969	17751	39239	109308	4671
VA	RICHMOND	123334	31828	1989	85538	3979
VA	ROANOKE	197470	16038	18043	115274	48115
VA	ROCKBRIDGE	389382	61535	49429	259252	19166
VA	ROCKINGHAM	557355	86054	127081	332212	12008
VA	SHENANDOAH	327833	40578	64072	213572	9611
VA	SPOTSYLVANIA	262470	34894	13771	194310	19495
VA	STAFFORD	173510	20592	10580	127823	14515
VA	SUFFOLK	261868	61969	4997	140929	53973
VA	SURRY	180057	34999	5000	135998	4060
VA	VIRGINIA BEACH	163795	41948	1998	58926	60923
VA	WARREN	139052	9270	39141	83431	7210
VA	WESTMORELAND	145049	43833	2989	90257	7970
VA	YORK	157900	2998	999	31980	121923
WV	BERKELEY	205734	27403	23187	97664	57480
WV	GRANT	307392	20984	54961	222342	9105
WV	HAMPSHIRE	412454	5302	63627	318134	25391
WV	HARDY	374144	21246	50585	290358	11955
WV	JEFFERSON	133964	38458	20895	25937	48674
WV	MINERAL	210784	12393	23940	164957	9494
WV	MONROE	302816	35000	74856	188520	4440
WV	MORGAN	146956	11602	4834	116018	14502
WV	PENDLETON	446764	21886	69856	349230	5792

APPENDIX E.3 PERCENT OF CONSERVATION AND CONVENTIONAL TILLAGE BY COUNTY.

ST	COUNTY	PERCENT CONSERVATION TILLAGE	PERCENT CONVENTIONAL TILLAGE
DE	KENT	70.8	29.2
DE	NEW CASTLE	66.3	33.7
DE	SUSSEX	74.7	25.3
MD	ALLEGANY	28.9	71.1
MD	ANNE ARUNDEL	70.4	29.6
MD	BALTIMORE	61.9	38.1
MD	CALVERT	36.4	63.6
MD	CAROLINE	45.1	54.9
MD	CARROLL	63.3	36.7
MD	CECIL	67.3	32.7
MD	CHARLES	17.1	82.9
MD	DORCHESTER	59.2	40.8
MD	FREDERICK	85.9	14.1
MD	GARRETT	30.1	69.9
MD	HARFORD	76.3	23.7
MD	HOWARD	73.0	27.0
MD	KENT	97.5	2.5
MD	MONTGOMERY	91.7	8.3
MD	PRINCE GEORGES	6.6	93.4
MD	QUEEN ANNES	69.1	30.9
MD	SOMERSET	68.9	31.1
MD	ST MARYS	46.5	53.5
MD	TALBOT	60.5	39.5
MD	WASHINGTON	73.7	26.3
MD	WICOMICO	24.2	75.8
MD	WORCESTER	81.0	19.0
NY	ALLEGANY	3.4	96.6
NY	BROOME	13.2	86.8
NY	CHEMUNG	7.4	92.6
NY	CHENANGO	2.7	97.3
NY	CORTLAND	6.4	93.6
NY	DELAWARE	1.3	98.7
NY	HERKIMER	7.8	92.2
NY	LIVINGSTON	9.0	91.0
NY	MADISON	1.9	98.1
NY	ONANDAGA	14.4	85.6
NY	ONEIDA	5.4	94.6
NY	ONTARIO	12.1	87.9
NY	OTSEGO	0.5	99.5
NY	SCHOHARIE	5.0	95.0
NY	SCHUYLER	3.1	96.9
NY	STEUBEN	5.1	94.9
NY	TIOGA	2.3	97.7
NY	TOMPKINS	16.8	83.2
NY	YATES	13.9	86.1

APPENDIX E.3 (continued).

ST	COUNTY	PERCENT CONSERVATION TILLAGE	PERCENT CONVENTIONAL TILLAGE
PA	ADAMS	72.7	27.3
PA	BEDFORD	57.5	42.5
PA	BERKS	46.1	53.9
PA	BLAIR	24.3	75.7
PA	BRADFORD	2.2	97.8
PA	CAMBRIA	7.1	92.9
PA	CAMERON	0.0	100.0
PA	CENTRE	49.4	50.6
PA	CHESTER	68.3	31.7
PA	CLEARFIELD	18.9	81.1
PA	CLINTON	36.2	63.8
PA	COLUMBIA	25.0	75.0
PA	CUMBERLAND	65.7	34.3
PA	DAUPHIN	19.9	80.1
PA	ELK	0.4	99.6
PA	FRANKLIN	56.3	43.7
PA	FULTON	52.4	47.6
PA	HUNTINGDON	44.4	55.6
PA	INDIANA	26.4	73.6
PA	JUNIATA	29.6	70.4
PA	LACKAWANNA	37.1	62.9
PA	LANCASTER	42.9	57.1
PA	LEBANON	25.4	74.6
PA	LUZERNE	21.1	78.9
PA	LYCOMING	62.5	37.5
PA	MCKEAN	0.7	99.3
PA	MIFFLIN	46.0	54.0
PA	MONTOUR	31.1	68.9
PA	NORTHUMBERLAND	43.8	56.2
PA	PERRY	63.4	36.6
PA	POTTER	1.2	98.8
PA	SCHUYLKILL	40.8	59.2
PA	SNYDER	46.4	53.6
PA	SOMERSET	42.4	57.6
PA	SULLIVAN	10.8	89.2
PA	SUSQUEHANNA	29.8	70.2
PA	TIOGA	27.5	72.5
PA	UNION	37.4	62.6
PA	WAYNE	48.9	51.1
PA	WYOMING	29.1	70.9
PA	YORK	65.5	34.5
VA	ACCOMACK	33.6	66.4
VA	ALBEMARLE	25.7	74.3
VA	ALLEGHANY	100.0	0.0
VA	AMELIA	52.7	47.3

APPENDIX E.3 (continued).

ST	COUNTY	PERCENT CONSERVATION TILLAGE	PERCENT CONVENTIONAL TILLAGE
VA	AMHERST	46.7	53.3
VA	APPOMATTOX	32.9	67.1
VA	ARLINGTON		
VA	AUGUSTA	73.0	27.0
VA	BATH	91.4	8.6
VA	BEDFORD	64.4	35.6
VA	BOTETOURT	84.8	15.2
VA	BUCKINGHAM	79.4	20.6
VA	CAMPBELL	27.2	72.8
VA	CAROLINE	90.9	9.1
VA	CHARLES CITY	63.3	36.7
VA	CHESAPEAKE CITY	54.5	45.5
VA	CHESTERFIELD	25.3	74.7
VA	CLARKE	73.4	26.6
VA	CRAIG	73.1	26.9
VA	CULPEPER	68.6	31.4
VA	CUMBERLAND	90.1	9.9
VA	DINWIDDIE	4.5	95.5
VA	ESSEX	37.0	63.0
VA	FAIRFAX	53.7	46.3
VA	FAUQUIER	80.6	19.4
VA	FLUVANNA	69.6	30.4
VA	FREDERICK	58.3	41.7
VA	GILES	99.8	0.2
VA	GLOUCESTER	24.7	75.3
VA	GOOCHLAND	57.5	42.5
VA	GREENE	44.1	55.9
VA	HANOVER	67.0	33.0
VA	HENRICO	77.5	22.5
VA	HIGHLAND	37.4	62.6
VA	ISLE OF WIGHT	44.5	55.5
VA	JAMES CITY	61.7	38.3
VA	KING AND QUEEN	40.0	60.0
VA	KING GEORGE	55.0	45.0
VA	KING WILLIAM	48.8	51.2
VA	LANCASTER	20.7	79.3
VA	LOUDOUN	93.2	6.8
VA	LOUISA	58.0	42.0
VA	MADISON	39.6	60.4
VA	MATHEWS	9.3	90.7
VA	MIDDLESEX	7.4	92.6
VA	MONTGOMERY	67.2	32.8
VA	NELSON	55.0	45.0
VA	NEW KENT	66.9	33.1
VA	NORTHAMPTON	50.4	49.6

APPENDIX E.3 (continued).

ST	COUNTY	PERCENT CONSERVATION TILLAGE	PERCENT CONVENTIONAL TILLAGE
VA	NORTHUMBERLAND	26.6	73.4
VA	NOTTOWAY	81.5	18.5
VA	ORANGE	24.8	75.2
VA	PAGE	76.7	23.3
VA	POWHATAN	40.5	59.5
VA	PRINCE EDWARD	38.4	61.6
VA	PRINCE GEORGE	24.0	76.0
VA	PRINCE WILLIAM	86.8	13.2
VA	RAPPAHANNOCK	66.3	33.7
VA	RICHMOND	9.2	90.8
VA	ROANOKE	49.2	50.8
VA	ROCKBRIDGE	100.0	0.0
VA	ROCKINGHAM	59.2	40.8
VA	SHENANDOAH	32.8	67.2
VA	SPOTSYLVANIA	30.6	69.4
VA	STAFFORD	68.0	32.0
VA	SUFFOLK CITY	64.2	35.8
VA	SURRY	66.9	33.1
VA	VIRGINIA BEACH	100.0	0.0
VA	WARREN	71.8	28.2
VA	WESTMORELAND	20.5	79.5
VA	YORK	26.5	73.5
WV	BERKELEY	65.4	34.6
WV	GRANT	32.1	67.9
WV	HAMPSHIRE	47.2	52.8
WV	HARDY	13.9	86.1
WV	JEFFERSON	90.4	9.6
WV	MINERAL	34.8	65.2
WV	MONROE	47.3	52.7
WV	MORGAN	27.3	72.7
WV	PENDLETON	30.8	69.2

APPENDIX E.4 MANURE LAND BY MODEL SEGMENT AND COUNTY.
(AU - ANIMAL UNITS)

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY SEGMENT	
							MANURE ACRES	MANURE ACRES
10	ALLEGANY	NY	455	1902	2	2359	16	614
	SCHUYLER	NY	494	1435	9	1939	13	
	ONTARIO	NY	20	63	0	84	1	
	STEUBEN	NY	9001	34734	39	43775	302	
	CHEMUNG	NY	1399	5053	14	6466	45	
	LIVINGSTON	NY	197	703	2	902	6	
	TIOGA	NY	9	41	0	49	0	
	YATES	NY	89	287	2	378	3	
	BRADFORD	PA	2225	8153	7	10385	72	
	TIOGA	PA	4243	17868	24	22134	153	
20	POTTER	PA	121	389	0	510	4	1716
	ONONDAGA	NY	356	1663	1	2019	14	
	MADISON	NY	4038	22268	5	26312	181	
	OTSEGO	NY	8263	42762	11	51036	352	
	TOMPKINS	NY	820	3106	7	3933	27	
	CHENANGO	NY	7279	37514	9	44802	309	
	ONEIDA	NY	412	2035	1	2447	17	
	HERKIMER	NY	438	2449	0	2887	20	
	SCHUYLER	NY	228	661	4	894	6	
	SCHOHARIE	NY	306	1366	1	1673	12	
	BROOME	NY	3812	15170	10	18992	131	
	TIOGA	NY	4416	20245	13	24674	170	
	CHEMUNG	NY	246	889	3	1137	8	
	DELAWARE	NY	1942	8568	1	10511	72	
	CORTLAND	NY	5777	31421	46	37244	257	
	WAYNE	PA	194	884	0	1078	7	
	BRADFORD	PA	1267	4643	4	5915	41	
	SUSQUEHANNA	PA	2249	11041	8	13298	92	
	SUSQUEHANNA	PA	3999	19629	14	23641	163	668
30	LUZERNE	PA	290	844	6	1140	8	
	BRADFORD	PA	11080	40603	37	51720	357	
	WYOMING	PA	2312	10636	16	12964	89	
	SULLIVAN	PA	82	254	0	336	2	
	LYCOMING	PA	5	13	0	18	0	
	TIOGA	PA	81	343	0	425	3	
	LACKAWANNA	PA	1332	4313	15	5660	39	
	WAYNE	PA	176	800	0	975	7	
	LUZERNE	PA	1129	3285	23	4436	31	149
40	SNYDER	PA	53	172	5	231	2	
	NORTHUMBERLAND	PA	1672	3136	197	5004	35	
	SULLIVAN	PA	130	400	0	530	4	
	MONTOUR	PA	509	1184	47	1741	12	
	COLUMBIA	PA	2709	5940	113	8762	6	
	SCHUYLKILL	PA	301	503	32	835	6	
	LYCOMING	PA	21	51	0	72	0	

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY MANURE ACRES	SEGMENT MANURE ACRES
50	BLAIR	PA	63	248	1	312	2	94
	CENTRE	PA	986	3050	14	4050	28	
	INDIANA	PA	446	1024	11	1481	10	
	CAMBRIA	PA	1248	1689	30	2966	20	
	CLEARFIELD	PA	1353	3528	11	4892	34	
60	UNION	PA	11	28	1	40	0	402
	LYCOMING	PA	3144	7829	57	11029	76	
	CAMERON	PA	0	0	0	0	0	
	TIOGA	PA	3080	12972	17	16070	111	
	SULLIVAN	PA	17	52	0	68	0	
	CLINTON	PA	2190	6241	40	8470	58	
	ELK	PA	194	422	1	617	4	
	CLEARFIELD	PA	287	748	2	1037	7	
	CENTRE	PA	3423	10589	49	14061	97	
	MCKEAN	PA	28	57	0	85	1	
	POTTER	PA	1633	5237	2	6873	47	
	WYOMING	PA	30	140	0	171	1	
	CENTRE	PA	61	189	1	252	2	
	COLUMBIA	PA	120	262	5	387	3	
	SULLIVAN	PA	1054	3258	3	4315	30	
70	UNION	PA	2657	6717	151	9526	66	193
	LYCOMING	PA	1979	4928	36	6943	48	
	MONTOUR	PA	875	2034	81	2990	21	
	NORTHUMBERLAND	PA	852	1599	100	2552	18	
	BRADFORD	PA	162	594	1	757	5	
	SNYDER	PA	17	54	2	72	0	
	SCHUYLKILL	PA	661	1103	69	1833	13	
	MIFFLIN	PA	227	962	8	1197	8	
	SNYDER	PA	3168	10220	300	13688	94	
	CUMBERLAND	PA	5420	18410	156	23986	165	
	LEBANON	PA	379	1116	31	1525	11	
	PERRY	PA	2808	7651	76	10534	73	
	COLUMBIA	PA	17	37	1	55	0	
	FRANKLIN	PA	2475	9728	106	12309	85	
	UNION	PA	1007	2546	57	3610	25	
80	JUNIATA	PA	288	1013	10	1311	9	614
	NORTHUMBERLAND	PA	1166	2188	137	3491	24	
	CENTRE	PA	1194	3694	17	4905	34	
	DAUPHIN	PA	3320	7154	137	10611	73	
	BLAIR	PA	109	425	2	535	4	
	SOMERSET	PA	188	604	4	795	5	
	FULTON	PA	265	638	5	908	6	
	HUNTINGDON	PA	941	2987	12	3941	27	
	BEDFORD	PA	6355	17968	93	24416	168	
	BEDFORD	PA	262	740	4	1005	7	
	CENTRE	PA	459	1421	7	1887	13	
	FRANKLIN	PA	570	2241	24	2835	20	
	BLAIR	PA	4354	17005	69	21428	148	
	JUNIATA	PA	3270	11494	110	14875	103	
90	BLAIR	PA	109	425	2	535	4	211
	SOMERSET	PA	188	604	4	795	5	
	FULTON	PA	265	638	5	908	6	
	HUNTINGDON	PA	941	2987	12	3941	27	
	BEDFORD	PA	6355	17968	93	24416	168	
100	BEDFORD	PA	262	740	4	1005	7	607
	CENTRE	PA	459	1421	7	1887	13	
	FRANKLIN	PA	570	2241	24	2835	20	
	BLAIR	PA	4354	17005	69	21428	148	
	JUNIATA	PA	3270	11494	110	14875	103	

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY MANURE ACRES	SEGMENT MANURE ACRES
110	CAMBRIA	PA	6	8	0	13	0	792
	MIFFLIN	PA	4140	17536	143	21819	150	
	PERRY	PA	1277	3480	34	4791	33	
	HUNTINGDON	PA	3881	12317	51	16250	112	
	SNYDER	PA	100	323	9	432	3	
	FULTON	PA	782	1885	14	2681	18	
	CARROLL	MD	146	337	3	487	3	
	LEBANON	PA	6836	20107	550	27493	190	
	BERKS	PA	957	2933	46	3936	27	
	DAUPHIN	PA	1764	3801	73	5638	39	
	ADAMS	PA	3815	6435	166	10416	72	
	LANCASTER	PA	8144	21999	820	30963	214	
	YORK	PA	7956	14452	450	22859	158	
	SCHUYLKILL	PA	480	800	50	1331	9	
120	CUMBERLAND	PA	2633	8943	76	11652	80	806
	LEBANON	PA	479	1408	39	1925	13	
	YORK	PA	1072	1948	61	3081	21	
	BERKS	PA	472	1446	23	1940	13	
	CHESTER	PA	201	688	5	893	6	
140	LANCASTER	PA	28671	77447	2886	109005	752	160
	CECIL	MD	43	141	0	185	1	
	HARFORD	MD	550	1322	4	1876	13	
	YORK	PA	1995	3624	113	5731	40	
160	LANCASTER	PA	4048	10935	408	15391	106	145
	GARRETT	MD	1835	3319	9	5163	36	
	ALLEGANY	MD	1047	411	6	1465	10	
	BEDFORD	PA	1234	3488	18	4740	33	
	SOMERSET	PA	946	3045	18	4010	28	
	HARDY	WV	26	5	0	31	0	
	GRANT	WV	2026	254	7	2287	16	
	MINERAL	WV	2010	1110	11	3131	22	
	HAMPSHIRE	WV	187	13	1	202	1	
	HIGHLAND	VA	672	58	1	731	5	
170	ROCKINGHAM	VA	370	434	5	809	6	108
	AUGUSTA	VA	79	49	1	129	1	
	GRANT	WV	1931	243	7	2180	15	
	HARDY	WV	2840	520	30	3390	23	
	HAMPSHIRE	WV	1310	94	10	1414	10	
	PENDLETON	WV	6376	586	34	6996	48	
	ALLEGANY	MD	678	266	4	949	7	
	WASHINGTON	MD	755	2210	13	2978	21	
	BEDFORD	PA	1495	4228	22	5745	40	
	FULTON	PA	174	421	3	598	4	
175	SHENANDOAH	VA	136	68	1	206	1	128
	FREDERICK	VA	87	20	1	107	1	
	HARDY	WV	3342	613	36	3990	28	
	MORGAN	WV	307	125	2	434	3	
	HAMPSHIRE	WV	3293	236	25	3554	25	
	FREDERICK	MD	2824	13339	19	16183	112	
180								925

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY MANURE ACRES	SEGMENT MANURE ACRES
190	WASHINGTON	MD	7444	21790	127	29361	202	
	CUMBERLAND	PA	49	165	1	215	1	
	FRANKLIN	PA	10830	42575	464	53869	372	
	FULTON	PA	1894	4566	35	6494	45	
	ADAMS	PA	441	744	19	1204	8	
	PERRY	PA	8	22	0	31	0	
	FREDERICK	VA	4844	1128	30	6001	41	
	CLARKE	VA	1005	736	5	1745	12	
	LOUDOUN	VA	2711	964	31	3706	26	
	BERKELEY	WV	3838	4224	48	8109	56	
	HAMPSHIRE	WV	14	1	0	16	0	
	JEFFERSON	WV	2321	4337	29	6687	46	
	MORGAN	WV	369	150	3	521	4	
	NELSON	VA	34	4	0	38	0	522
	GREENE	VA	34	13	0	47	0	
	WARREN	VA	1137	52	4	1193	8	
	ALBEMARLE	VA	55	13	0	68	0	
	RAPPAHANNOCK	VA	19	0	0	20	0	
	MADISON	VA	29	13	0	42	0	
	PAGE	VA	5943	1517	68	7528	52	
200	ROCKINGHAM	VA	15997	18763	198	34958	241	
	AUGUSTA	VA	19520	12098	207	31825	219	
	FAUQUIER	VA	32	20	0	52	0	412
	SHENANDOAH	VA	10357	5196	108	15661	108	
	PAGE	VA	334	85	4	424	3	
	ROCKINGHAM	VA	12069	14156	149	26374	182	
	WARREN	VA	1893	86	7	1986	14	
	FREDERICK	VA	1732	403	11	2146	15	
	CLARKE	VA	3985	2917	19	6920	48	
	LOUDOUN	VA	113	40	1	155	1	
210	HARDY	WV	232	42	2	277	2	
	JEFFERSON	WV	2009	3755	25	5788	40	
	FREDERICK	MD	9619	45427	66	55112	380	540
	CARROLL	MD	4133	9526	87	13746	95	
	MONTGOMERY	MD	266	559	2	828	6	
	ADAMS	PA	3095	5220	135	8449	58	
	FRANKLIN	PA	28	109	1	138	1	
220	WASHINGTON	DC	0	0	0	0	0	186
	FREDERICK	MD	573	2705	4	3281	23	
	MONTGOMERY	MD	2058	4321	17	6397	44	
	CLARKE	VA	5	4	0	9	0	
	ARLINGTON	VA	0	0	0	0	0	
	FAIRFAX	VA	178	178	0	357	2	
	PRINCE WILLIAM	VA	3	2	0	6	0	
	LOUDOUN	VA	7974	2834	91	10900	75	
	FAUQUIER	VA	3718	2356	11	6085	42	
	SPOTSYLVANIA	VA	282	312	3	597	4	391
230	STAFFORD	VA	214	47	2	262	2	
	FAUQUIER	VA	6972	4418	20	11410	79	

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY MANURE ACRES	SEGMENT MANURE ACRES
235	RAPPAHANNOCK	VA	4786	82	9	4877	34	
	ALBEMARLE	VA	66	15	0	82	1	
	WARREN	VA	15	1	0	16	0	
	MADISON	VA	9582	4197	105	13884	96	
	ORANGE	VA	5273	2556	48	7876	54	
	PAGE	VA	32	8	0	40	0	
	CULPEPER	VA	9682	6502	50	16233	112	
	GREENE	VA	1027	385	9	1421	10	
	SPOTSYLVANIA	VA	1293	1431	12	2736	19	21
	CAROLINE	VA	123	60	4	187	1	
240	ORANGE	VA	118	57	1	176	1	
	CAROLINE	VA	669	323	20	1012	7	9
	SPOTSYLVANIA	VA	74	82	1	157	1	
	KING AND QUEEN	VA	26	20	9	56	0	
	KING WILLIAM	VA	27	44	0	71	0	
250	ESSEX	VA	2	0	0	3	0	
	ORANGE	VA	3234	1568	29	4831	33	50
	SPOTSYLVANIA	VA	304	337	3	644	4	
	LOUISA	VA	1448	250	23	1721	12	
	KING WILLIAM	VA	3	6	0	9	0	71
260	CAROLINE	VA	116	56	3	176	1	
	ORANGE	VA	163	79	1	244	2	
	FLUVANNA	VA	12	1	0	13	0	
	LOUISA	VA	3662	631	58	4351	30	
	HANOVER	VA	2872	1719	40	4632	32	
	SPOTSYLVANIA	VA	293	324	3	620	4	
	GOOCHLAND	VA	101	44	2	147	1	
	ALBEMARLE	VA	121	28	1	150	1	
	BATH	VA	777	21	1	799	6	13
	ALLEGHANY	VA	34	4	0	38	0	
265	HIGHLAND	VA	984	84	2	1070	7	
	AMHERST	VA	1452	106	2	1559	11	316
	CRAIG	VA	2014	246	6	2266	16	
	ALLEGHANY	VA	1272	143	2	1417	10	
	GILES	VA	115	10	0	125	1	
	ROANOKE	VA	200	56	2	258	2	
	AUGUSTA	VA	6815	4224	72	11111	77	
	ROCKBRIDGE	VA	11422	2338	14	13774	95	
	NELSON	VA	17	2	0	19	0	
	HIGHLAND	VA	1204	103	2	1309	9	
270	BATH	VA	1300	36	2	1338	9	
	BEDFORD	VA	951	611	3	1565	11	
	MONTGOMERY	VA	397	333	1	731	5	
	BOTETOURT	VA	5641	2859	14	8515	59	
	MONROE	WV	1214	524	2	1740	12	
	PENDLETON	WV	26	2	0	28	0	
	APPOMATTOX	VA	1757	925	5	2687	19	331
	FLUVANNA	VA	3015	261	24	3299	23	
	AUGUSTA	VA	26	16	0	43	0	
280								

APPENDIX E.4 (continued).

MODEL			BEEF	MILK	SWINE	TOTAL	COUNTY MANURE	SEGMENT MANURE
SEGMENT	COUNTY	STATE	AU	AU	AU	AU	ACRES	ACRES
	ORANGE	VA	254	123	2	379	3	
	GOOCHLAND	VA	497	215	9	721	5	
	NELSON	VA	4205	448	35	4688	32	
	BUCKINGHAM	VA	3778	435	57	4270	29	
	ROCKINGHAM	VA	28	33	0	62	0	
	CAMPBELL	VA	1181	600	6	1787	12	
	BEDFORD	VA	900	578	3	1481	10	
	LYNCHBURG	VA	5466	942	86	6494	45	
	CUMBERLAND	VA	1497	1104	26	2626	18	
	AMHERST	VA	3486	254	4	3744	26	
	LOUISA	VA	191	33	3	227	2	
	ALBEMARLE	VA	10749	2496	55	13300	92	
	GREENE	VA	1550	581	13	2144	15	
290	POWHATAN	VA	2120	2425	56	4602	32	57
	LOUISA	VA	27	5	0	32	0	
	GOOCHLAND	VA	1703	737	30	2469	17	
	HANOVER	VA	5	3	0	8	0	
	CHESTERFIELD	VA	20	3	0	24	0	
	RICHMOND CITY	VA	18	21	1	40	0	
	HENRICO	VA	80	32	2	114	1	
	CUMBERLAND	VA	517	381	9	908	6	
300	NOTTOWAY	VA	1340	1240	16	2595	18	137
	PRINCE EDWARD	VA	2776	2777	19	5573	38	
	CUMBERLAND	VA	1044	770	18	1831	13	
	POWHATAN	VA	693	793	18	1505	10	
	APPOMATTOX	VA	1190	627	3	1820	13	
	CHESTERFIELD	VA	65	11	2	78		
	AMELIA	VA	2766	3226	158	6150	42	
	BUCKINGHAM	VA	233	27	4	263	2	
310	CHESTERFIELD	VA	60	10	1	71	0	8
	DINWIDDIE	VA	296	252	17	565	4	
	NOTTOWAY	VA	95	88	1	184	1	
	AMELIA	VA	170	199	10	379	3	
320	CHESTERFIELD	VA	3	0	0	3	0	0
	DINWIDDIE	VA	28	24	2	53	0	
330	MONTGOMERY	MD	474	996	4	1474	10	23
	HOWARD	MD	731	1124	14	1869	13	
	PRINCE GEORGES	MD	5	2	0	7	0	
340	ANNE ARUNDEL	MD	154	58	5	217	1	26
	HOWARD	MD	1314	2022	26	3362	23	
	PRINCE GEORGES	MD	92	46	5	143	1	
ANACOSTIA	WASHINGTON	DC	0	0	0	0	0	11
	PRINCE GEORGES	MD	205	103	12	320	2	
	MONTGOMERY	MD	423	889	3	1316	9	
BALT. HBR	BALTIMORE CITY	MD	0	0	0	0	0	10
	BALTIMORE	MD	477	899	8	1384	10	
BOHEMIA	NEW CASTLE	DE	27	82	1	110	1	12
	CECIL	MD	375	1232	4	1612	11	

APPENDIX E.4 (continued).

MODEL			BEEF	MILK	SWINE	TOTAL	COUNTY	SEGMENT
SEGMENT	COUNTY	STATE	AU	AU	AU	AU	MANURE ACRES	MANURE ACRES
CHESTER	NEW CASTLE	DE	26	79	1	106	1	72
	KENT	DE	151	414	7	573	4	
	KENT	MD	1174	4511	39	5725	39	
	QUEEN ANNES	MD	796	3202	41	4039	28	
CHICKAHOM.	HANOVER	VA	735	440	10	1185	8	11
	HENRICO	VA	270	108	6	384	3	
	NEW KENT	VA	40	0	3	44	0	
	CHARLES CITY	VA	17	1	2	20	0	
CHOPTANK	RICHMOND CITY	VA	15	18	1	34	0	49
	KENT	DE	480	1315	23	1819	13	
	TALBOT	MD	433	975	29	1438	10	
	CAROLINE	MD	1055	1355	99	2509	17	
COASTAL1	QUEEN ANNES	MD	261	1050	13	1324	9	71
	DORCHESTER	MD	21	17	22	60	0	
	NEW CASTLE	DE	43	134	2	179	1	
	KENT	MD	839	3222	28	4089	28	
COASTAL11	TALBOT	MD	496	1117	34	1647	1	321
	CECIL	MD	854	2803	9	3666	25	
	QUEEN ANNES	MD	32	128	2	162	1	
	DORCHESTER	MD	195	161	202	558	4	
COASTAL4	CECIL	MD	1456	4779	16	6250	43	2
	BALTIMORE	MD	71	134	1	207	1	
	HARFORD	MD	3078	7395	23	10497	72	
	YORK	PA	357	649	20	1027	7	
COASTAL5	CHESTER	PA	1847	6334	42	8223	57	5
	LANCASTER	PA	5334	14409	537	20280	140	
	NORTHAMPTON	VA	70	0	2	73	1	
	ACCOMACK	VA	154	0	41	195	1	
COASTAL6	ANNE ARUNDEL	MD	408	154	13	574	4	28
	CALVERT	MD	169	0	4	174	1	
	BALTIMORE	MD	342	644	6	992	7	
	HARFORD	MD	908	2182	7	3098	21	
COASTAL8	BALTIMORE CITY	MD	0	0	0	0	0	7
	LANCASTER	VA	25	0	3	29	0	
	MIDDLESEX	VA	132	268	7	407	3	
	MATHEWS	VA	104	8	16	128	1	
COASTAL 9	GLOUCESTER	VA	168	0	12	180	1	6
	NORTHUMBERLAND	VA	42	0	4	46	0	
	ESSEX	VA	59	0	8	68	0	
	KING AND QUEEN	VA	85	66	31	182	1	
COASTAL 9	HAMPTON	VA	0	0	0	0	0	6
	VIRGINIA BEACH	VA	152	0	347	500	3	
	NORFOLK	VA	0	0	0	0	0	
	NEWPORT NEWS	VA	0	0	0	0	0	
COASTAL 9	CHESAPEAKE CITY	VA	80	169	11	260	2	6
	YORK	VA	70	0	0	70	0	
	PORTSMOUTH	VA	0	0	0	0	0	

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY SEGMENT	
							MANURE ACRES	MANURE ACRES
ELIZABETH	CHESAPEAKE CITY	VA	22	46	3	70	0	0
	PORTSMOUTH	VA	0	0	0	0	0	
	SUFFOLK	VA	1	0	0	1	0	
GRT WICOM.	NORTHUMBERLAND	VA	93	0	9	102	1	1
	LANCASTER	VA	1	0	0	1	0	
	RICHMOND	VA	0	0	0	1	0	
GUNPOWDER	BALTIMORE	MD	2171	4094	36	6301	43	72
	HARFORD	MD	457	1097	3	1558	11	
	CARROLL	MD	672	1548	14	2234	15	
JAMES	YORK	PA	115	209	7	331	2	
	POWHATAN	VA	87	100	2	189	1	30
	CHARLES CITY	VA	140	12	17	169	1	
	DINWIDDIE	VA	64	55	4	123	1	
	SUFFOLK	VA	32	0	10	42	0	
	PRINCE GEORGE	VA	628	185	50	864	6	
	WILLIAMSBURG	VA	0	0	0	0	0	
	SURRY	VA	190	0	85	275	2	
	RICHMOND CITY	VA	323	378	21	722	5	
	JAMES CITY	VA	332	0	8	340	2	
	ISLE OF WIGHT	VA	550	46	135	731	5	
	COLONL. HEIGHTS	VA	0	0	0	0	0	
	YORK	VA	19	0	0	19	0	
	CHESTERFIELD	VA	422	69	10	501	3	
	HAMPTON	VA	0	0	0	0	0	
	PETERSBURG	VA	0	0	0	0	0	
	HENRICO	VA	193	78	4	275	2	
	NEW KENT	VA	87	0	7	94	1	
	NEWPORT NEWS	VA	0	0	0	0	0	
	PORTSMOUTH	VA	0	0	0	0	0	5
	CHESAPEAKE CITY	VA	1	3	0	4	0	
	ISLE OF WIGHT	VA	244	20	60	324	2	
	SUFFOLK	VA	330	0	102	431	3	
NANTICOKE	KENT	DE	361	988	17	1367	9	37
	SUSSEX	DE	1417	1326	284	3027	21	
	DORCHESTER	MD	51	43	53	147	1	
	CAROLINE	MD	240	309	23	572	4	
	WICOMICO	MD	215	0	85	300	2	
OCCOQUAN	LOUDOUN	VA	556	198	6	760	5	97
	FAUQUIER	VA	5225	3311	15	8551	59	
	FAIRFAX	VA	165	165	0	330	2	
PATAPSCO	PRINCE WILLIAM	VA	2571	1823	21	4415	30	
	HOWARD	MD	787	1211	16	2014	14	110
	BALTIMORE CITY	MD	0	0	0	0	0	
	CARROLL	MD	659	8435	77	12171	84	
	BALTIMORE	MD	473	893	8	1374	9	
	ANNE ARUNDEL	MD	233	88	7	329	2	

APPENDIX E.4 (continued).

MODEL			BEEF	MILK	SWINE	TOTAL	COUNTY	SEGMENT
SEGMENT	COUNTY	STATE	AU	AU	AU	AU	MANURE ACRES	MANURE ACRES
PATUXENT	ST MARYS	MD	352	219	58	629	4	15
	CHARLES	MD	67	10	5	83	1	
	PRINCE GEORGES	MD	473	239	27	739	5	
	CALVERT	MD	427	0	11	437	3	
	ANNE ARUNDEL	MD	179	68	6	252	2	
POCOMOKE	SUSSEX	DE	140	131	28	300	2	22
	WICOMICO	MD	159	0	62	221	2	
	SOMERSET	MD	512	555	162	1229	8	
	WORCESTER	MD	442	659	281	1382	10	
	ACCOMACK	VA	29	0	8	37	0	
POTOMAC	WASHINGTON	DC	0	0	0	0	0	65
	MONTGOMERY	MD	412	866	3	1282	9	
	ST MARYS	MD	987	613	163	1763	12	
	CHARLES	MD	1097	163	89	1348	9	
	PRINCE GEORGES	MD	351	177	20	548	4	
	WESTMORELAND	VA	424	116	20	559	4	
	FALLS CHURCH	VA	0	0	0	0		
	PRINCE WILLIAM	VA	633	449	5	1087	7	
	FAIRFAX	VA	272	272	0	543	4	
	ALEXANDRIA	VA	0	0	0	0	0	
	FAUQUIER	VA	64	41	0	105	1	
	KING GEORGE	VA	713	0	0	713	5	
	STAFFORD	VA	1062	231	8	1300	9	
	ARLINGTON	VA	0	0	0	0	0	
	NORTHUMBERLAND	VA	145	0	14	159	1	
	RICHMOND	VA	0	0	0	1	0	
	NORTHUMBERLAND	VA	4	0	0	4	0	86
	SPOTSYLVANIA	VA	394	437	4	835	6	
	FREDERICKSBURG	VA	6662	1551	41	8255	57	
	KING GEORGE	VA	398	0	0	398	3	
	CAROLINE	VA	271	131	8	410	3	
RAPPAHAN	KING AND QUEEN	VA	1	1	0	2	0	
	WESTMORELAND	VA	168	46	8	222	2	
	STAFFORD	VA	223	48	2	273	2	
	MIDDLESEX	VA	178	362	10	549	4	
	RICHMOND	VA	354	415	23	792	5	
	LANCASTER	VA	146	0	20	166	1	
	ESSEX	VA	525	0	74	599	4	
	ANNE ARUNDEL	MD	128	48	4	180	1	2
	SUSSEX	DE	6	6	1	13	0	4
	WICOMICO	MD	242	0	95	338	2	
SEVERN	SOMERSET	MD	122	132	39	293	2	
	WORCESTER	MD	1	1	0	2	0	
	QUEEN ANNES	MD	204	822	10	1037	7	10
	TALBOT	MD	133	299	9	440	3	

APPENDIX E.4 (continued).

MODEL SEGMENT	COUNTY	STATE	BEEF AU	MILK AU	SWINE AU	TOTAL AU	COUNTY MANURE ACRES	SEGMENT MANURE ACRES
YORK	YORK	VA	102	0	0	102	1	44
	GLOUCESTER	VA	87	0	6	93	1	
	NEW KENT	VA	115	0	9	124	1	
	CAROLINE	VA	27	13	1	40	0	
	HANOVER	VA	1454	870	20	2345	16	
	WILLIAMSBURG	VA	0	0	0	0	0	
	KING AND QUEEN	VA	267	207	96	570	4	
	KING WILLIAM	VA	1120	1858	18	2996	21	
	JAMES CITY	VA	97	0	2	100	1	
	ESSEX	VA	2	0	0	3	0	

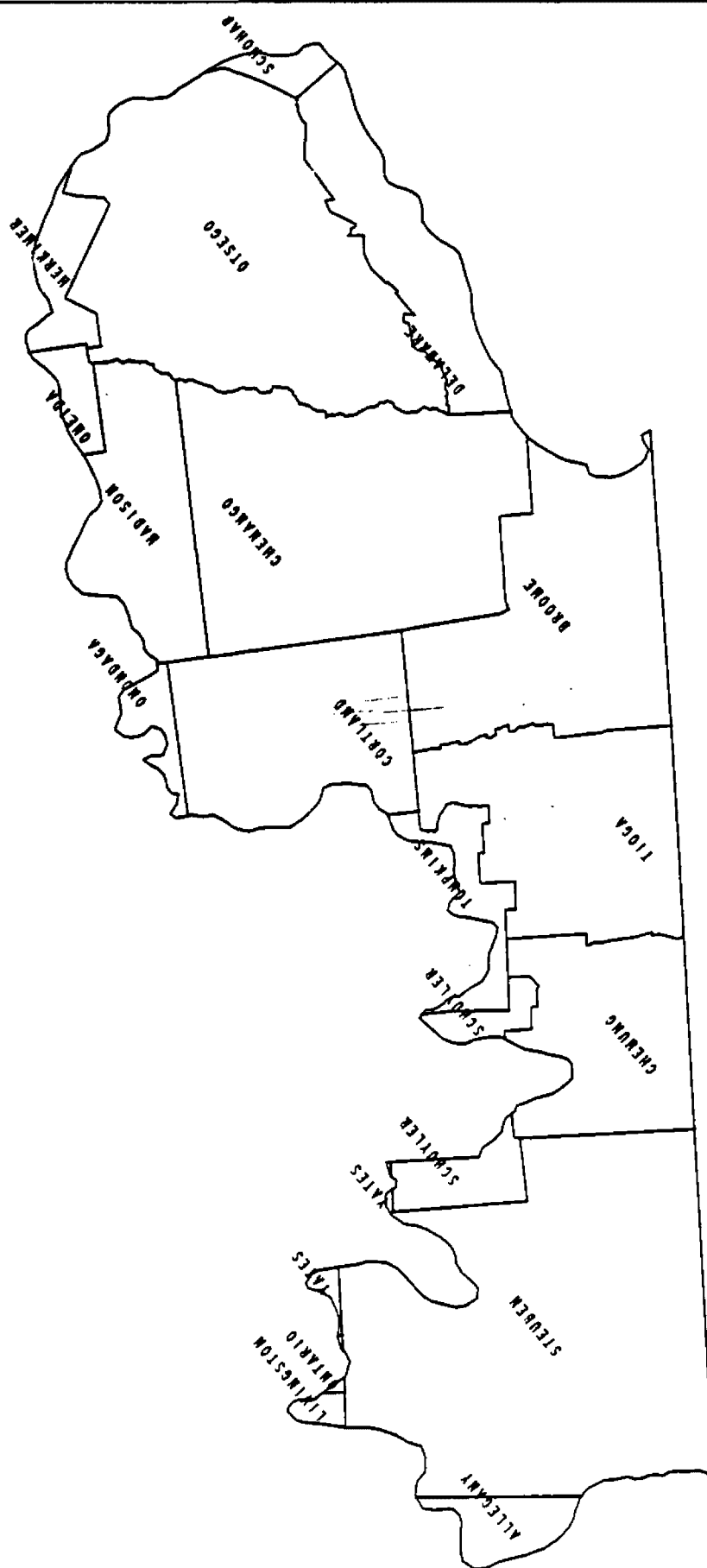
APPENDIX E.5. PERCENT URBAN LAND SUBCATEGORIES BY SEGMENT ABOVE THE FALL LINE
AND THE CALCULATED URBAN AREA IMPERVIOUSNESS (PERCENT).

SEGMENT	RESIDENT	COMMERCIAL	INDUSTRIAL	TRANSPORT	INSTITUT	CALCULATED IMPERVIOUS
10	69	18	4	0	10	36
20	90	10	0	0	0	31
30	36	39	4	12	9	52
40	24	58	3	4	11	61
50	66	5	3	15	11	31
60	49	12	5	19	15	37
70	48	18	5	19	10	41
80	63	19	1	11	6	39
90	43	8	3	37	9	39
100	66	11	4	8	11	35
110	54	18	5	10	12	39
120	64	17	2	8	8	37
140	96	0	3	1	0	27
160	71	8	11	7	1	36
170	69	14	4	2	11	34
175	50	15	4	26	6	42
180	71	5	20	1	3	37
190	81	8	1	6	3	31
200	76	5	12	5	2	38
210	65	6	3	25	1	36
220	66	12	0	14	6	35
230	91	4	2	1	3	28
235	65	17	1	15	2	36
240	58	14	3	18	7	38
250	83	6	4	1	5	30
260	67	8	1	23	2	36
265	82	13	5	0	0	35
270	73	5	3	16	4	33
280	80	8	3	6	3	32
290	73	9	0	10	8	32
300	74	14	1	9	3	36
310	95	5	0	0	0	28
330	90	7	0	0	3	29
340	39	38	3	11	9	51

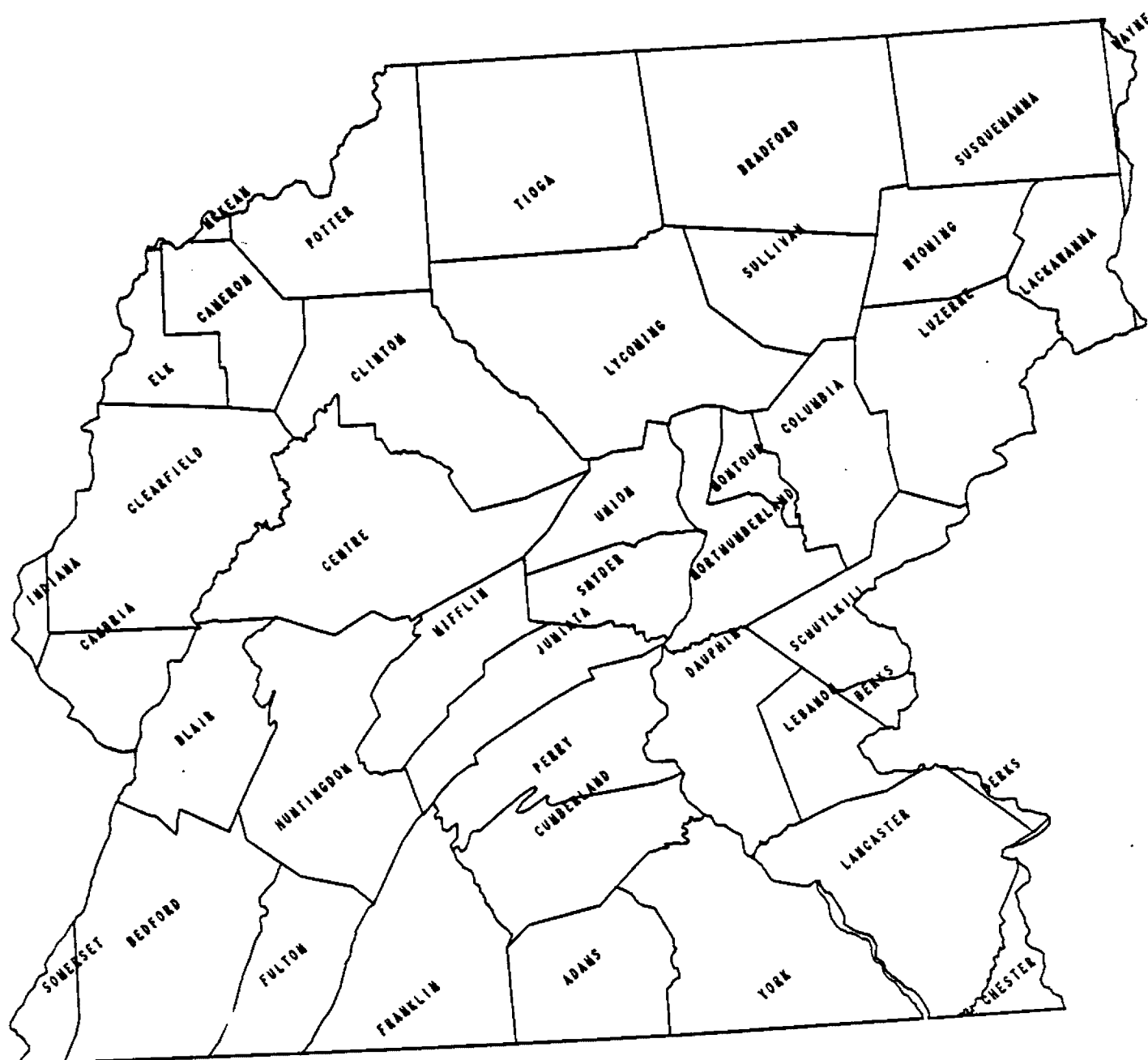
APPENDIX E.5 (continued).

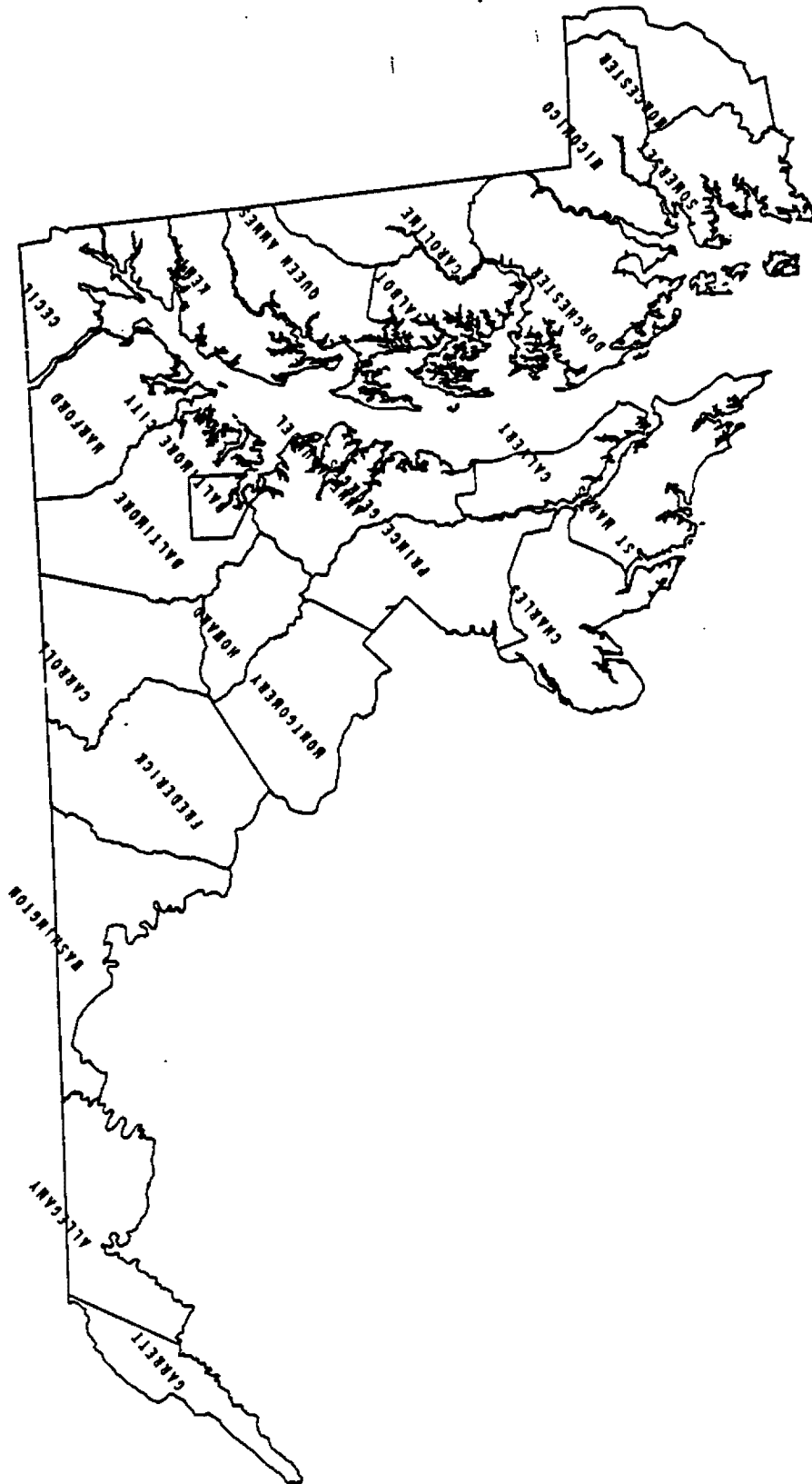
SEGMENT	CALCULATED					
	RESIDENT	COMMERCIAL	INDUSTRIAL	TRANSPORT	INSTITUT	IMPERVIOUS
ANACOSTIA	38	43	2	4	13	51
BALTHARB	49	43	3	1	4	52
BOHEMIA	75	20	0	0	5	36
CHESTER	86	12	1	0	1	32
CHICKAH	71	12	1	14	2	35
CHOPTANK	81	15	1	0	3	34
COAST_1	83	10	0	2	5	31
COAST_11	67	23	3	5	2	42
COAST_4	77	12	4	4	3	34
COAST_5	75	13	1	3	9	33
COAST_6	40	38	2	6	14	48
COAST_8	88	8	1	2	1	30
COAST_9	44	39	1	4	12	48
ELIZABETH	86	6	0	8	0	31
GRT_WICO	92	7	0	1	0	29
GUNPOWD	38	58	4	0	0	62
JAMES	68	16	5	7	4	38
LAKEANNA	39	61	0	0	0	62
NANSEMOND	85	5	0	6	5	28
NANTICOKE	89	7	3	0	1	30
OCCAQUAN	78	14	1	4	3	34
PATAPSCO	46	28	7	0	18	42
PATUXENT	83	12	1	3	2	33
POCOMOKE	81	11	5	0	3	34
POTOMAC	69	20	1	4	7	38
RAPPAHAN	76	12	20	5	4	34
SEVERN	79	5	1	0	15	26
WICOMICO	82	10	2	3	3	32
WYE	93	6	0	0	1	32
YORK	65	20	4	8	4	40

County Boundaries in New York

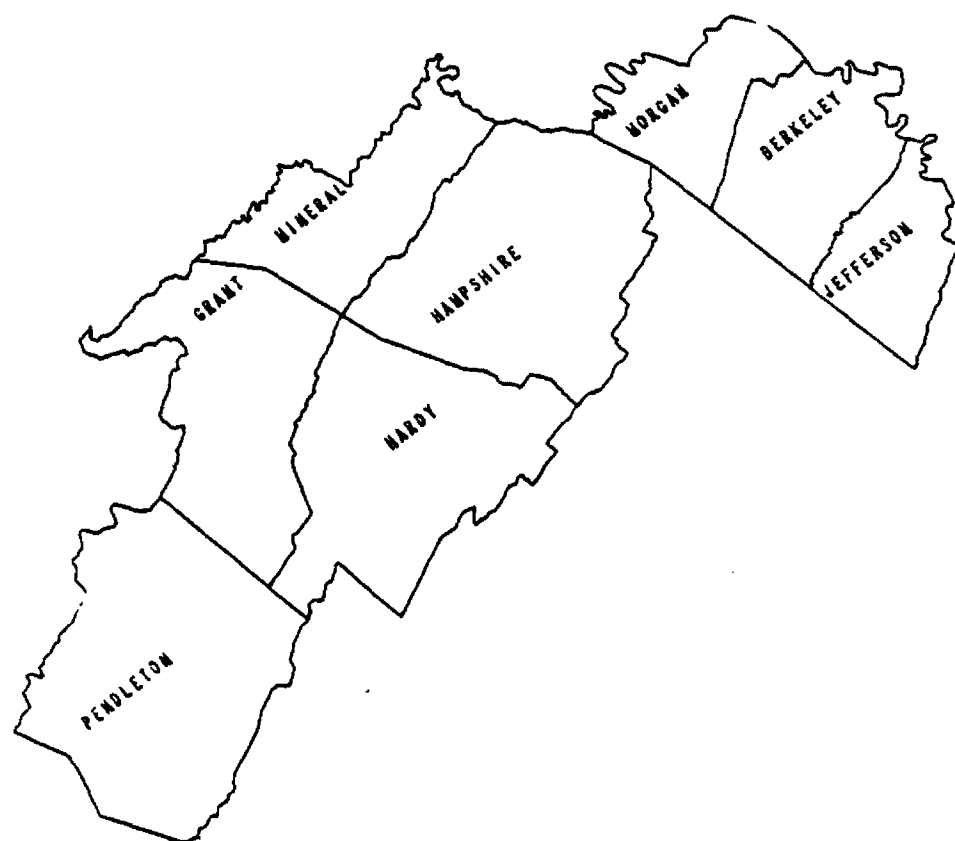


County Boundaries in Pennsylvania





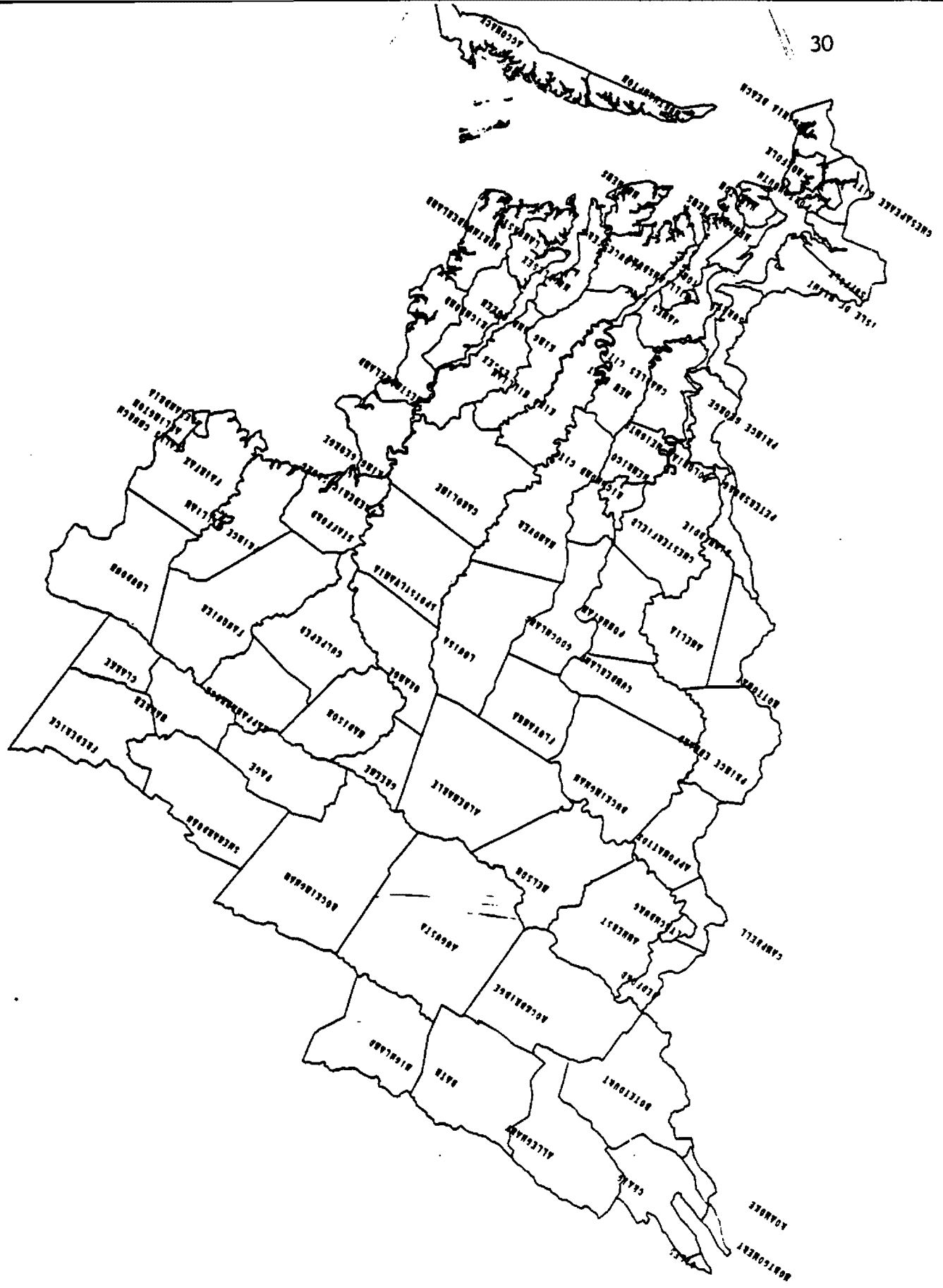
County Boundaries in West Virginia



County Boundaries in Delaware



County Boundaries in Virginia



APPENDIX E.7 THE COUNTIES IN THE BASIN AND THE PERCENTAGE OF
EACH COUNTY IN A MODEL SEGMENT.

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
DC WASHINGTON	220	.049
DC WASHINGTON	ANACOSTIA	.225
DC WASHINGTON	POTOMAC	.652
DC WASHINGTON	POTOMAC_RIVER	.074
DE KENT	CHESTER	.052
DE KENT	CHOPTANK	.165
DE KENT	NANTICOKE	.124
DE NEW CASTLE	BOHEMIA	.027
DE NEW CASTLE	CHESTER	.026
DE NEW CASTLE	COASTAL_1	.044
DE SUSSEX	NANTICOKE	.454
DE SUSSEX	POCOMOKE	.045
DE SUSSEX	WICOMICO	.002
MD ALLEGANY	160	.607
MD ALLEGANY	175	.393
MD ANNE ARUNDEL	340	.136
MD ANNE ARUNDEL	CHESAPEAKE_BAY	.027
MD ANNE ARUNDEL	COASTAL_5	.360
MD ANNE ARUNDEL	PATAPSCO	.206
MD ANNE ARUNDEL	PATUXENT	.158
MD ANNE ARUNDEL	SEVERN	.113
MD BALTIMORE	BALT_HARBOR	.134
MD BALTIMORE	CHESAPEAKE_BAY	.007
MD BALTIMORE	COASTAL_11	.020
MD BALTIMORE	COASTAL_6	.096
MD BALTIMORE	GUNPOWDER	.610
MD BALTIMORE	PATAPSCO	.133
MD BALTIMORE CITY	BALT_HARBOR	.527
MD BALTIMORE CITY	CHESAPEAKE_BAY	.004
MD BALTIMORE CITY	COASTAL_6	.374
MD BALTIMORE CITY	PATAPSCO	.095
MD CALVERT	CHESAPEAKE_BAY	.001
MD CALVERT	COASTAL_5	.282
MD CALVERT	PATUXENT	.710
MD CALVERT	PATUXENT_RIVER	.007
MD CAROLINE	CHESAPEAKE_BAY	.003
MD CAROLINE	CHOPTANK	.812
MD CAROLINE	NANTICOKE	.185
MD CARROLL	110	.017
MD CARROLL	210	.480
MD CARROLL	GUNPOWDER	.078
MD CARROLL	PATAPSCO	.425
MD CECIL	140	.015
MD CECIL	BOHEMIA	.131
MD CECIL	CHESAPEAKE_BAY	.013
MD CECIL	COASTAL_1	.298

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
MD CECIL	COASTAL_11	.508
MD CECIL	SUSQ_RIVER	.013
MD CHARLES	PATUXENT	.057
MD CHARLES	PATUXENT_RIVER	.001
MD CHARLES	POTOMAC	.929
MD CHARLES	POTOMAC_RIVER	.013
MD DORCHESTER	CHESAPEAKE_BAY	.055
MD DORCHESTER	CHOPTANK	.074
MD DORCHESTER	COASTAL_1	.690
MD DORCHESTER	NANTICOKE	.182
MD FREDERICK	180	.217
MD FREDERICK	210	.739
MD FREDERICK	220	.044
MD GARRETT	160	.353
MD HARFORD	140	.106
MD HARFORD	CHESAPEAKE_BAY	.028
MD HARFORD	COASTAL_11	.593
MD HARFORD	COASTAL_6	.175
MD HARFORD	GUNPOWDER	.088
MD HARFORD	SUSQ_RIVER	.010
MD HOWARD	330	.258
MD HOWARD	340	.464
MD HOWARD	PATAPSCO	.278
MD KENT	CHESAPEAKE_BAY	.027
MD KENT	CHESTER	.567
MD KENT	COASTAL_1	.405
MD MONTGOMERY	210	.073
MD MONTGOMERY	220	.564
MD MONTGOMERY	330	.130
MD MONTGOMERY	ANACOSTIA	.116
MD MONTGOMERY	POTOMAC	.113
MD MONTGOMERY	POTOMAC_RIVER	.005
MD PRINCE GEORGES	330	.004
MD PRINCE GEORGES	340	.081
MD PRINCE GEORGES	ANACOSTIA	.181
MD PRINCE GEORGES	PATUXENT	.418
MD PRINCE GEORGES	PATUXENT_RIVER	.005
MD PRINCE GEORGES	POTOMAC	.310
MD PRINCE GEORGES	POTOMAC_RIVER	.002
MD QUEEN ANNES	CHESAPEAKE_BAY	.108
MD QUEEN ANNES	CHESTER	.549
MD QUEEN ANNES	CHOPTANK	.180
MD QUEEN ANNES	COASTAL_1	.022
MD QUEEN ANNES	WYE	.141
MD SOMERSET	CHESAPEAKE_BAY	.077
MD SOMERSET	POCOMOKE	.746

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
-----	-----	-----
MD SOMERSET	WICOMICO	.178
MD ST MARYS	CHESAPEAKE_BAY	.002
MD ST MARYS	PATUXENT	.257
MD ST MARYS	POTOMAC	.720
MD ST MARYS	POTOMAC_RIVER	.021
MD TALBOT	CHESAPEAKE_BAY	.039
MD TALBOT	CHOPTANK	.392
MD TALBOT	COASTAL_1	.449
MD TALBOT	WYE	.120
MD WASHINGTON	175	.092
MD WASHINGTON	180	.907
MD WICOMICO	CHESAPEAKE_BAY	.013
MD WICOMICO	NANTICOKE	.345
MD WICOMICO	POCOMOKE	.254
MD WICOMICO	WICOMICO	.388
MD WORCESTER	POCOMOKE	.640
MD WORCESTER	WICOMICO	.001
NY ALLEGANY	10	.082
NY BROOME	20	.882
NY CHEMUNG	10	.779
NY CHEMUNG	20	.137
NY CHENANGO	20	.997
NY CORTLAND	20	.931
NY DELAWARE	20	.193
NY HERKIMER	20	.064
NY LIVINGSTON	10	.028
NY MADISON	20	.485
NY ONEIDA	20	.040
NY ONONDAGA	20	.065
NY ONTARIO	10	.004
NY OTSEGO	20	.974
NY SCHOHARIE	20	.064
NY SCHUYLER	10	.256
NY SCHUYLER	20	.118
NY STEUBEN	10	.888
NY TIOGA	10	.002
NY TIOGA	20	.998
NY TOMPKINS	20	.207
NY YATES	10	.039
PA ADAMS	110	.519
PA ADAMS	180	.060
PA ADAMS	210	.421
PA BEDFORD	100	.028
PA BEDFORD	160	.132
PA BEDFORD	175	.160
PA BEDFORD	90	.680

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT

PA BERKS	110	.071
PA BERKS	120	.035
PA BLAIR	100	.961
PA BLAIR	50	.014
PA BLAIR	90	.024
PA BRADFORD	10	.151
PA BRADFORD	20	.086
PA BRADFORD	30	.752
PA BRADFORD	70	.011
PA CAMBRIA	100	.002
PA CAMBRIA	50	.443
PA CAMERON	60	1
PA CENTRE	100	.075
PA CENTRE	50	.161
PA CENTRE	60	.559
PA CENTRE	70	.010
PA CENTRE	80	.195
PA CHESTER	120	.019
PA CHESTER	COASTAL_11	.175
PA CLEARFIELD	50	.745
PA CLEARFIELD	60	.158
PA CLINTON	60	.999
PA COLUMBIA	40	.952
PA COLUMBIA	70	.042
PA COLUMBIA	80	.006
PA CUMBERLAND	110	.325
PA CUMBERLAND	180	.006
PA CUMBERLAND	80	.669
PA DAUPHIN	110	.347
PA DAUPHIN	80	.653
PA ELK	60	.318
PA FRANKLIN	100	.041
PA FRANKLIN	180	.779
PA FRANKLIN	210	.002
PA FRANKLIN	80	.178
PA FULTON	100	.251
PA FULTON	175	.056
PA FULTON	180	.608
PA FULTON	90	.085
PA HUNTINGDON	100	.804
PA HUNTINGDON	90	.195
PA INDIANA	50	.086
PA JUNIATA	100	.919
PA JUNIATA	80	.081
PA LACKAWANNA	30	.859
PA LANCASTER	110	.171

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
-----	-----	-----
PA LANCASTER	120	.602
PA LANCASTER	140	.085
PA LANCASTER	COASTAL_11	.112
PA LANCASTER	SUSQ_RIVER	.026
PA LEBANON	110	.757
PA LEBANON	120	.053
PA LEBANON	80	.042
PA LUZERNE	30	.174
PA LUZERNE	40	.677
PA LYCOMING	30	.001
PA LYCOMING	40	.004
PA LYCOMING	60	.610
PA LYCOMING	70	.384
PA MCKEAN	60	.022
PA MIFFLIN	100	.948
PA MIFFLIN	80	.052
PA MONTOUR	40	.368
PA MONTOUR	70	.632
PA NORTHUMBERLAND	40	.453
PA NORTHUMBERLAND	70	.231
PA NORTHUMBERLAND	80	.316
PA PERRY	100	.312
PA PERRY	180	.002
PA PERRY	80	.686
PA POTTER	10	.043
PA POTTER	60	.579
PA SCHUYLKILL	110	.172
PA SCHUYLKILL	40	.108
PA SCHUYLKILL	80	.237
PA SNYDER	100	.030
PA SNYDER	40	.016
PA SNYDER	70	.005
PA SNYDER	80	.950
PA SOMERSET	160	.111
PA SOMERSET	90	.022
PA SULLIVAN	30	.064
PA SULLIVAN	40	.101
PA SULLIVAN	60	.013
PA SULLIVAN	70	.822
PA SUSQUEHANNA	20	.360
PA SUSQUEHANNA	30	.640
PA TIOGA	10	.573
PA TIOGA	30	.011
PA TIOGA	60	.416
PA UNION	60	.003
PA UNION	70	.723

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
PA UNION	80	.274
PA WAYNE	20	.042
PA WAYNE	30	.038
PA WYOMING	30	.986
PA WYOMING	70	.013
PA YORK	110	.690
PA YORK	120	.093
PA YORK	140	.173
PA YORK	COASTAL_11	.031
PA YORK	GUNPOWDER	.010
PA YORK	SUSQ_RIVER	.003
VA ACCOMACK	CHESAPEAKE_BAY	.020
VA ACCOMACK	COASTAL_4	.422
VA ACCOMACK	POCOMOKE	.079
VA ALBEMARLE	190	.005
VA ALBEMARLE	230	.006
VA ALBEMARLE	260	.011
VA ALBEMARLE	280	.978
VA ALEXANDRIA	POTOMAC	.992
VA ALEXANDRIA	POTOMAC_RIVER	.008
VA ALLEGHANY	265	.026
VA ALLEGHANY	270	.974
VA AMELIA	300	.942
VA AMELIA	310	.058
VA AMHERST	270	.294
VA AMHERST	280	.706
VA APPOMATTOX	280	.431
VA APPOMATTOX	300	.292
VA ARLINGTON	220	.002
VA ARLINGTON	POTOMAC	.992
VA ARLINGTON	POTOMAC_RIVER	.006
VA AUGUSTA	170	.003
VA AUGUSTA	190	.739
VA AUGUSTA	270	.258
VA AUGUSTA	280	.001
VA BATH	265	.374
VA BATH	270	.626
VA BEDFORD	270	.074
VA BEDFORD	280	.070
VA BOTETOURT	270	.883
VA BUCKINGHAM	280	.942
VA BUCKINGHAM	300	.058
VA CAMPBELL	280	.181
VA CAROLINE	235	.102
VA CAROLINE	240	.553
VA CAROLINE	260	.096

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
-----	-----	-----
VA CAROLINE	RAPPAHANNOCK	.224
VA CAROLINE	RAPP_RIVER	.003
VA CAROLINE	YORK	.022
VA CHARLES CITY	CHICKAHOMINY	.105
VA CHARLES CITY	JAMES	.884
VA CHARLES CITY	JAMES_RIVER	.010
VA CHESAPEAKE CITY		.001
VA CHESAPEAKE CITY	COASTAL_9	.178
VA CHESAPEAKE CITY	ELIZABETH	.048
VA CHESAPEAKE CITY	NANSEMOND	.003
VA CHESTERFIELD	290	.035
VA CHESTERFIELD	300	.114
VA CHESTERFIELD	310	.104
VA CHESTERFIELD	320	.005
VA CHESTERFIELD	JAMES	.735
VA CHESTERFIELD	JAMES_RIVER	.007
VA CLARKE	180	.201
VA CLARKE	200	.797
VA CLARKE	220	.001
VA COLONIAL HEIGHTS	JAMES	1
VA CRAIG	270	.871
VA CULPEPER	230	1
VA CUMBERLAND	280	.489
VA CUMBERLAND	290	.169
VA CUMBERLAND	300	.341
VA DINWIDDIE	310	.170
VA DINWIDDIE	320	.016
VA DINWIDDIE	JAMES	.037
VA ESSEX	240	.004
VA ESSEX	COASTAL_8	.098
VA ESSEX	RAPPAHANNOCK	.868
VA ESSEX	RAPP_RIVER	.026
VA ESSEX	YORK	.004
VA FAIRFAX	220	.289
VA FAIRFAX	OCCOQUAN	.267
VA FAIRFAX	POTOMAC	.440
VA FAIRFAX	POTOMAC_RIVER	.004
VA FALLS CHURCH	POTOMAC	1
VA FAUQUIER	200	.002
VA FAUQUIER	220	.232
VA FAUQUIER	230	.435
VA FAUQUIER	OCCOQUAN	.326
VA FAUQUIER	POTOMAC	.004
VA FLUVANNA	260	.004
VA FLUVANNA	280	.996
VA FREDERICK	175	.013

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
-----	-----	-----
VA FREDERICK	180	.727
VA FREDERICK	200	.260
VA FREDERICKSBURG	RAPPAHANNOCK	1
VA GILES	270	.033
VA GLOUCESTER	CHESAPEAKE_BAY	.024
VA GLOUCESTER	COASTAL_8	.638
VA GLOUCESTER	YORK	.331
VA GLOUCESTER	YORK_RIVER	.008
VA GOOCHLAND	260	.044
VA GOOCHLAND	280	.216
VA GOOCHLAND	290	.740
VA GREENE	190	.013
VA GREENE	230	.393
VA GREENE	280	.593
VA HAMPTON	CHESAPEAKE_BAY	.020
VA HAMPTON	COASTAL_9	.759
VA HAMPTON	JAMES	.202
VA HAMPTON	JAMES_RIVER	.019
VA HANOVER	260	.567
VA HANOVER	290	.001
VA HANOVER	CHICKAHOMINY	.145
VA HANOVER	YORK	.287
VA HENRICO	290	.147
VA HENRICO	CHICKAHOMINY	.496
VA HENRICO	JAMES	.355
VA HENRICO	JAMES_RIVER	.002
VA HIGHLAND	170	.235
VA HIGHLAND	265	.344
VA HIGHLAND	270	.421
VA ISLE OF WIGHT	JAMES	.336
VA ISLE OF WIGHT	JAMES_RIVER	.004
VA ISLE OF WIGHT	NANSEMOND	.149
VA JAMES CITY	JAMES	.767
VA JAMES CITY	JAMES_RIVER	.005
VA JAMES CITY	YORK	.225
VA JAMES CITY	YORK_RIVER	.004
VA KING AND QUEEN	240	.069
VA KING AND QUEEN	COASTAL_8	.224
VA KING AND QUEEN	RAPPAHANNOCK	.003
VA KING AND QUEEN	YORK	.703
VA KING AND QUEEN	YORK_RIVER	.001
VA KING GEORGE	POTOMAC	.619
VA KING GEORGE	POTOMAC_RIVER	.014
VA KING GEORGE	RAPPAHANNOCK	.345
VA KING GEORGE	RAPP_RIVER	.023
VA KING WILLIAM	240	.023

APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
VA KING WILLIAM	260	.003
VA KING WILLIAM	YORK	.971
VA KING WILLIAM	YORK_RIVER	.004
VA LANCASTER	CHESAPEAKE_BAY	.018
VA LANCASTER	COASTAL_8	.140
VA LANCASTER	GREAT_WICOMICO	.007
VA LANCASTER	RAPPAHANNOCK	.812
VA LANCASTER	RAPP_RIVER	.023
VA LOUDOUN	180	.239
VA LOUDOUN	200	.010
VA LOUDOUN	220	.703
VA LOUDOUN	OCCOQUAN	.049
VA LOUISA	250	.265
VA LOUISA	260	.670
VA LOUISA	280	.035
VA LOUISA	290	.005
VA LOUISA	LAKE_ANNA	.026
VA LYNCHBURG	280	1
VA MADISON	190	.003
VA MADISON	230	.997
VA MATHEWS	CHESAPEAKE_BAY	.069
VA MATHEWS	COASTAL_8	.931
VA MIDDLESEX	CHESAPEAKE_BAY	.006
VA MIDDLESEX	COASTAL_8	.413
VA MIDDLESEX	RAPPAHANNOCK	.557
VA MIDDLESEX	RAPP_RIVER	.023
VA MONTGOMERY	270	.059
VA NELSON	190	.008
VA NELSON	270	.004
VA NELSON	280	.987
VA NEW KENT	CHICKAHOMINY	.167
VA NEW KENT	JAMES	.359
VA NEW KENT	YORK	.474
VA NEWPORT NEWS	COASTAL_9	.106
VA NEWPORT NEWS	JAMES	.872
VA NEWPORT NEWS	JAMES_RIVER	.022
VA NORFOLK	CHESAPEAKE_BAY	.003
VA NORFOLK	COASTAL_9	.972
VA NORFOLK	JAMES_RIVER	.025
VA NORTHAMPTON	CHESAPEAKE_BAY	.011
VA NORTHAMPTON	COASTAL_4	.400
VA NORTHUMBERLAND	CHESAPEAKE_BAY	.017
VA NORTHUMBERLAND	COASTAL_8	.143
VA NORTHUMBERLAND	GREAT_WICOMICO	.320
VA NORTHUMBERLAND	POTOMAC	.497
VA NORTHUMBERLAND	POTOMAC_RIVER	.011

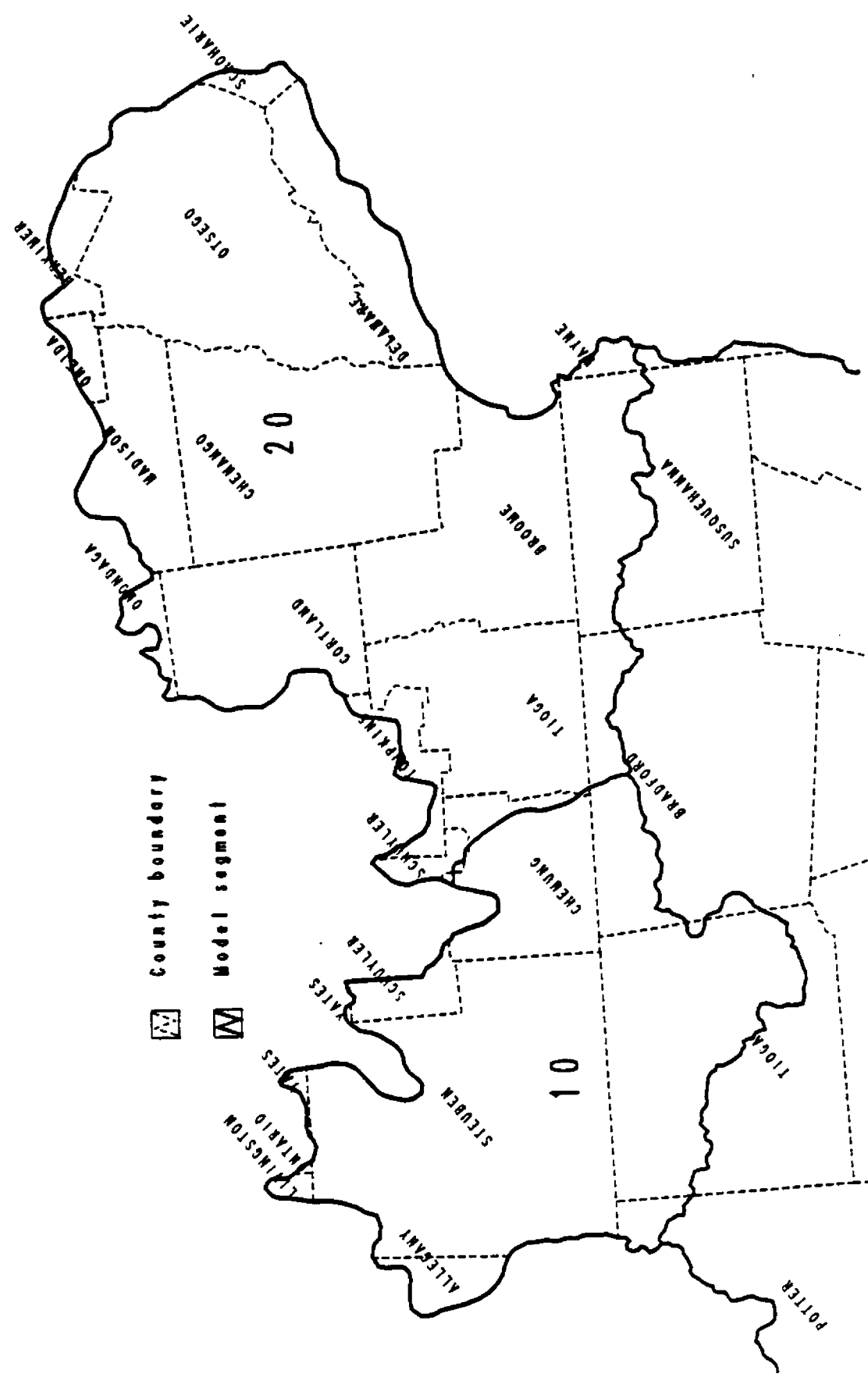
APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
VA NORTHUMBERLAND	RAPPAHANNOCK	.013
VA NOTTOWAY	300	.508
VA NOTTOWAY	310	.036
VA ORANGE	230	.582
VA ORANGE	235	.013
VA ORANGE	250	.357
VA ORANGE	260	.018
VA ORANGE	280	.028
VA ORANGE	LAKE_ANNA	.003
VA PAGE	190	.942
VA PAGE	200	.053
VA PAGE	230	.005
VA PETERSBURG	JAMES	.992
VA PORTSMOUTH	COASTAL_9	.423
VA PORTSMOUTH	ELIZABETH	.317
VA PORTSMOUTH	JAMES_RIVER	.052
VA PORTSMOUTH	NANSEMOND	.209
VA POWHATAN	290	.731
VA POWHATAN	300	.239
VA POWHATAN	JAMES	.030
VA PRINCE EDWARD	300	.963
VA PRINCE GEORGE	JAMES	1.01
VA PRINCE GEORGE	JAMES_RIVER	.008
VA PRINCE WILLIAM	220	.001
VA PRINCE WILLIAM	OCCOQUAN	.796
VA PRINCE WILLIAM	POTOMAC	.196
VA PRINCE WILLIAM	POTOMAC_RIVER	.006
VA RAPPAHANNOCK	190	.004
VA RAPPAHANNOCK	230	.996
VA RICHMOND	GREAT_WICOMICO	.001
VA RICHMOND	POTOMAC	.001
VA RICHMOND	RAPPAHANNOCK	.995
VA RICHMOND	RAPP_RIVER	.002
VA RICHMOND CITY	290	.050
VA RICHMOND CITY	CHICKAHOMINY	.043
VA RICHMOND CITY	JAMES	.907
VA ROANOKE	270	.102
VA ROCKBRIDGE	270	.999
VA ROCKINGHAM	170	.013
VA ROCKINGHAM	190	.562
VA ROCKINGHAM	200	.424
VA ROCKINGHAM	280	.001
VA SHENANDOAH	175	.013
VA SHENANDOAH	200	.987
VA SPOTSYLVANIA	230	.103
VA SPOTSYLVANIA	235	.472
VA SPOTSYLVANIA	240	.027

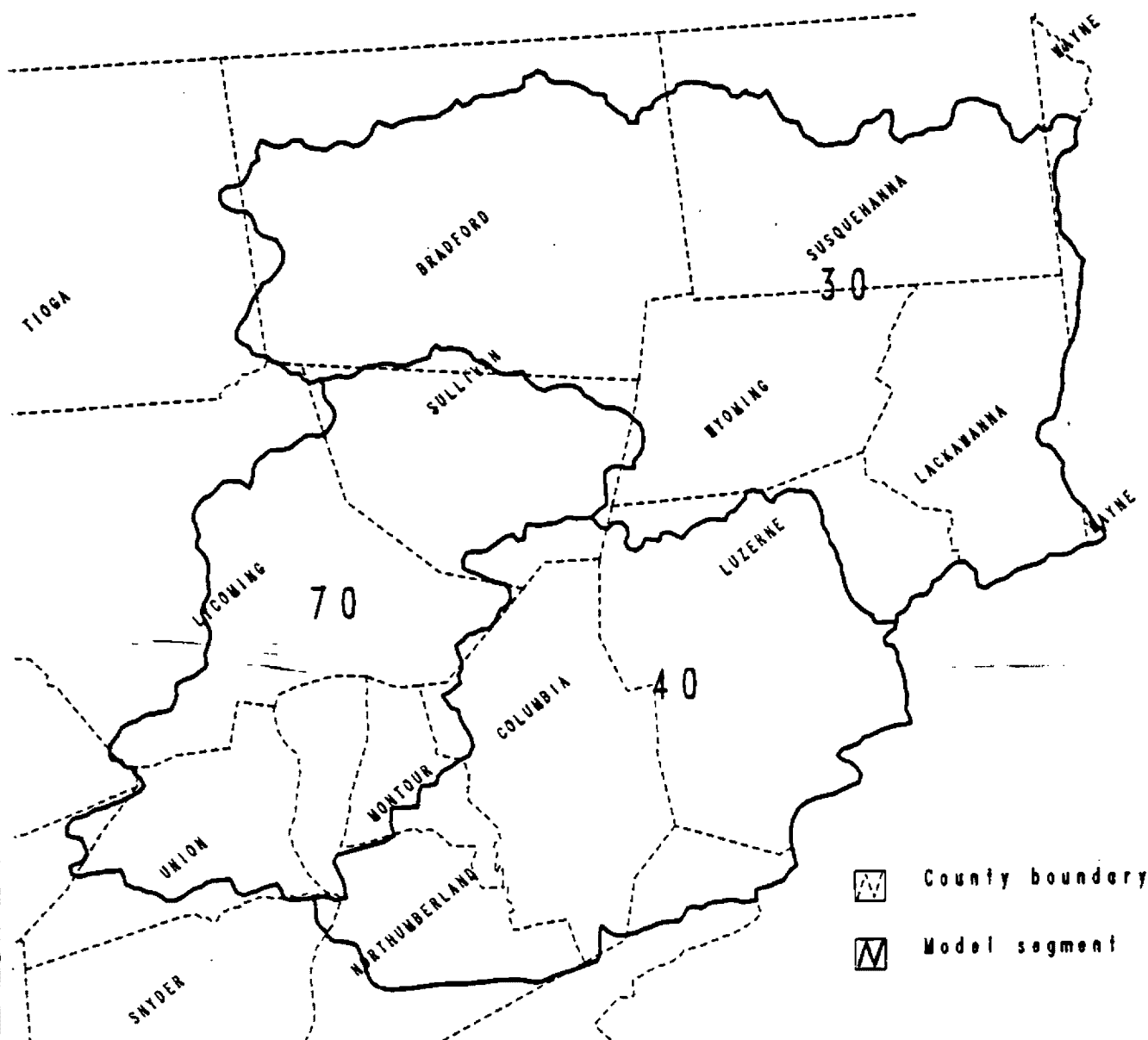
APPENDIX E.7 (continued).

ST COUNTY	MODEL SEGMENT	PERCENT IN SEGMENT
VA SPOTSYLVANIA	250	.111
VA SPOTSYLVANIA	260	.107
VA SPOTSYLVANIA	LAKE_ANNA	.037
VA SPOTSYLVANIA	RAPPAHANNOCK	.144
VA STAFFORD	230	.142
VA STAFFORD	POTOMAC	.705
VA STAFFORD	POTOMAC_RIVER	.005
VA STAFFORD	RAPPAHANNOCK	.148
VA SUFFOLK	ELIZABETH	.001
VA SUFFOLK	JAMES	.033
VA SUFFOLK	JAMES_RIVER	.002
VA SUFFOLK	NANSEMOND	.339
VA SURRY	JAMES	.411
VA SURRY	JAMES_RIVER	.002
VA VIRGINIA BEACH	CHESAPEAKE_BAY	.011
VA VIRGINIA BEACH	COASTAL_9	.418
VA WARREN	190	.373
VA WARREN	200	.621
VA WARREN	230	.005
VA WESTMORELAND	POTOMAC	.694
VA WESTMORELAND	POTOMAC_RIVER	.016
VA WESTMORELAND	RAPPAHANNOCK	.275
VA WESTMORELAND	RAPP_RIVER	.015
VA WILLIAMSBURG	JAMES	.566
VA WILLIAMSBURG	YORK	.434
VA YORK	CHESAPEAKE_BAY	.006
VA YORK	COASTAL_9	.356
VA YORK	JAMES	.099
VA YORK	YORK	.516
VA YORK	YORK_RIVER	.023
WV BERKELEY	180	1
WV GRANT	160	.512
WV GRANT	170	.488
WV HAMPSHIRE	160	.039
WV HAMPSHIRE	170	.273
WV HAMPSHIRE	175	.686
WV HAMPSHIRE	180	.003
WV HARDY	160	.004
WV HARDY	170	.441
WV HARDY	175	.519
WV HARDY	200	.036
WV JEFFERSON	180	.536
WV JEFFERSON	200	.464
WV MINERAL	160	1
WV MONROE	270	.149
WV MORGAN	175	.454
WV MORGAN	180	.546
WV PENDLETON	170	.996
WV PENDLETON	270	.004

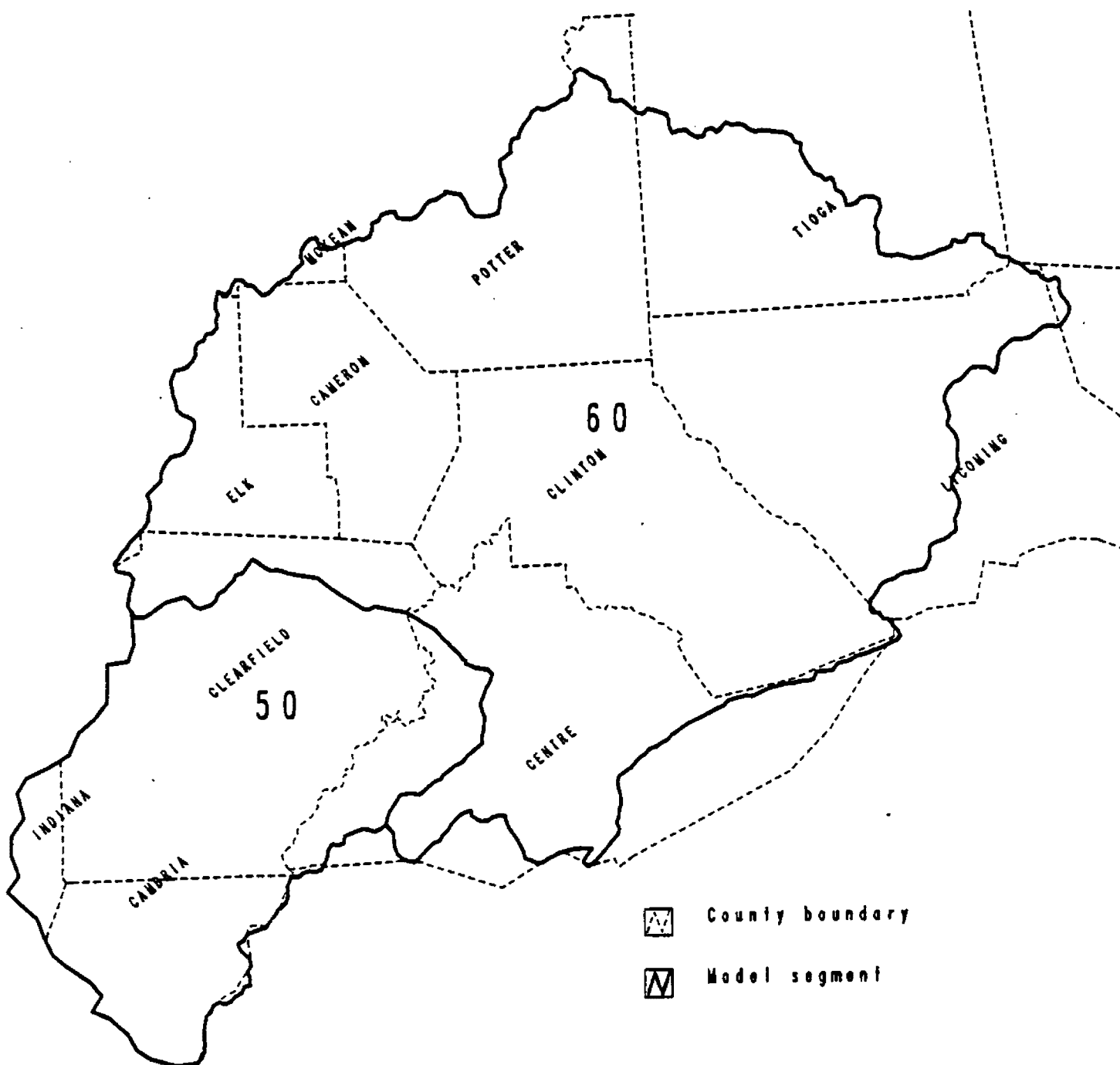
Model Segments and County Boundaries: AFL Segments: 10 & 20 Susquehanna Basin



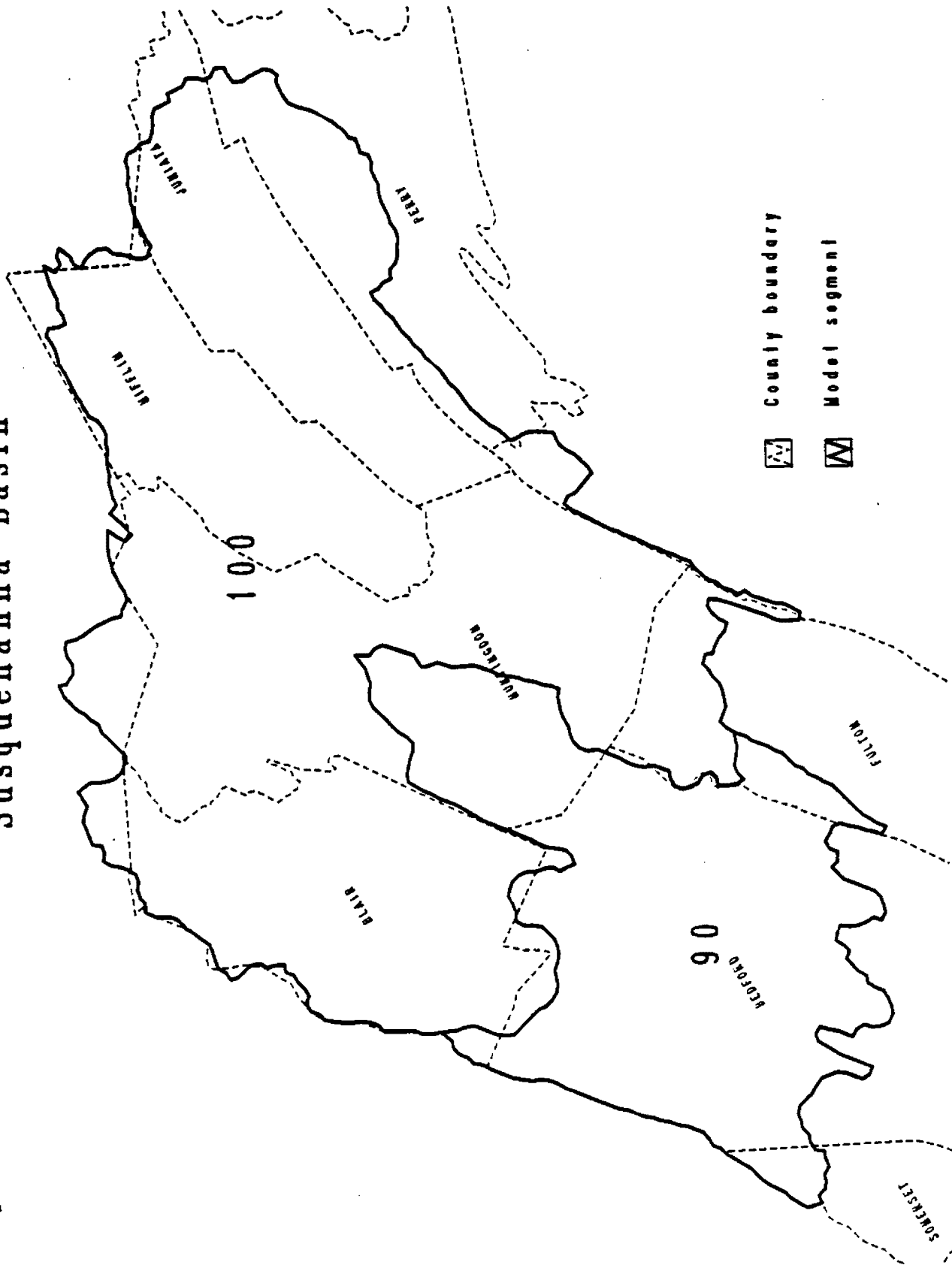
Model Segments and County Boundaries:
AFL Segments: 30, 40 & 70
Susquehanna Basin



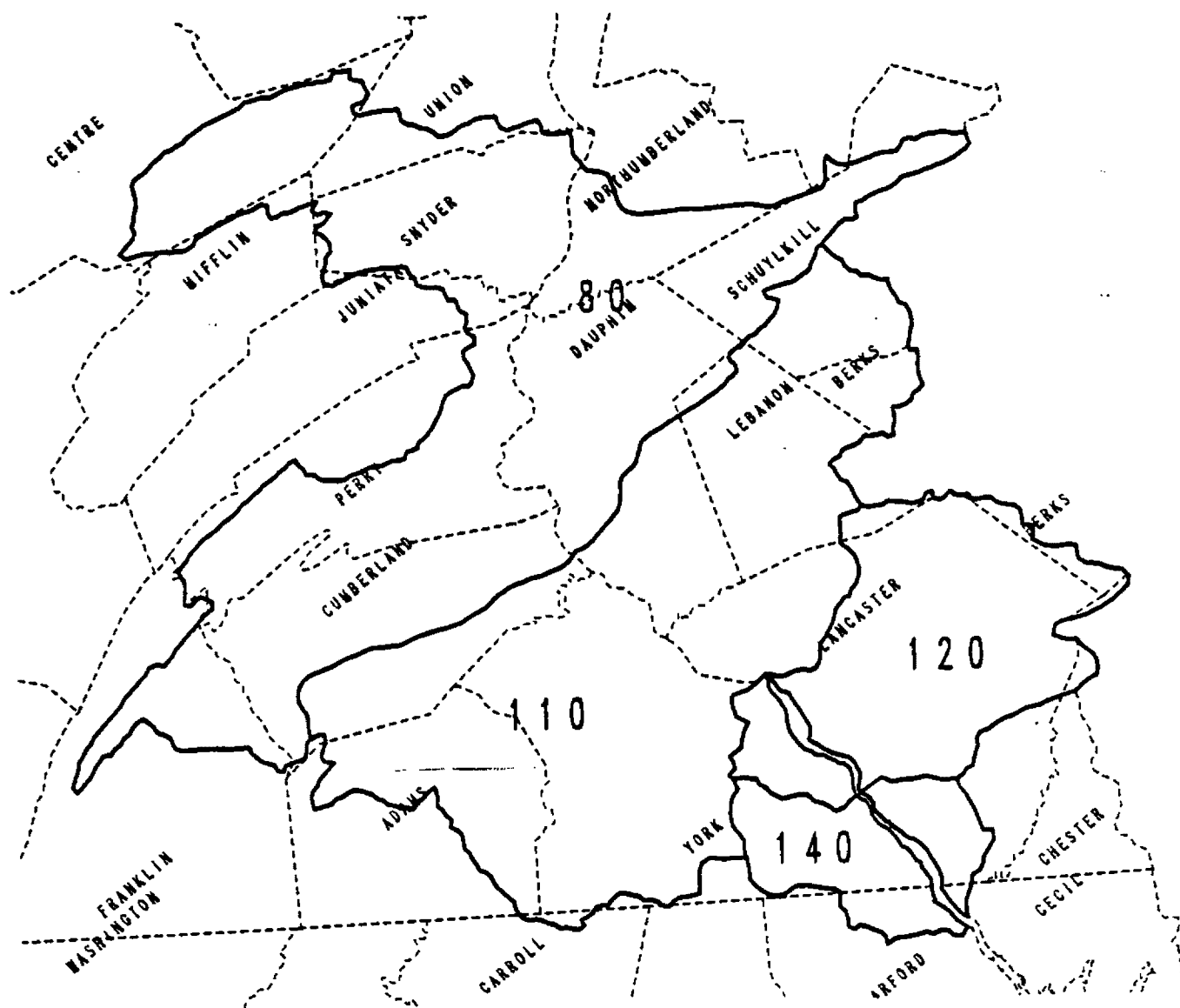
Model Segments and County Boundaries:
AFL Segments: 50 & 60
Susquehanna Basin



Model Segments and County Boundaries:
 AFL Segments: 90 & 100
 Susquehanna Basin



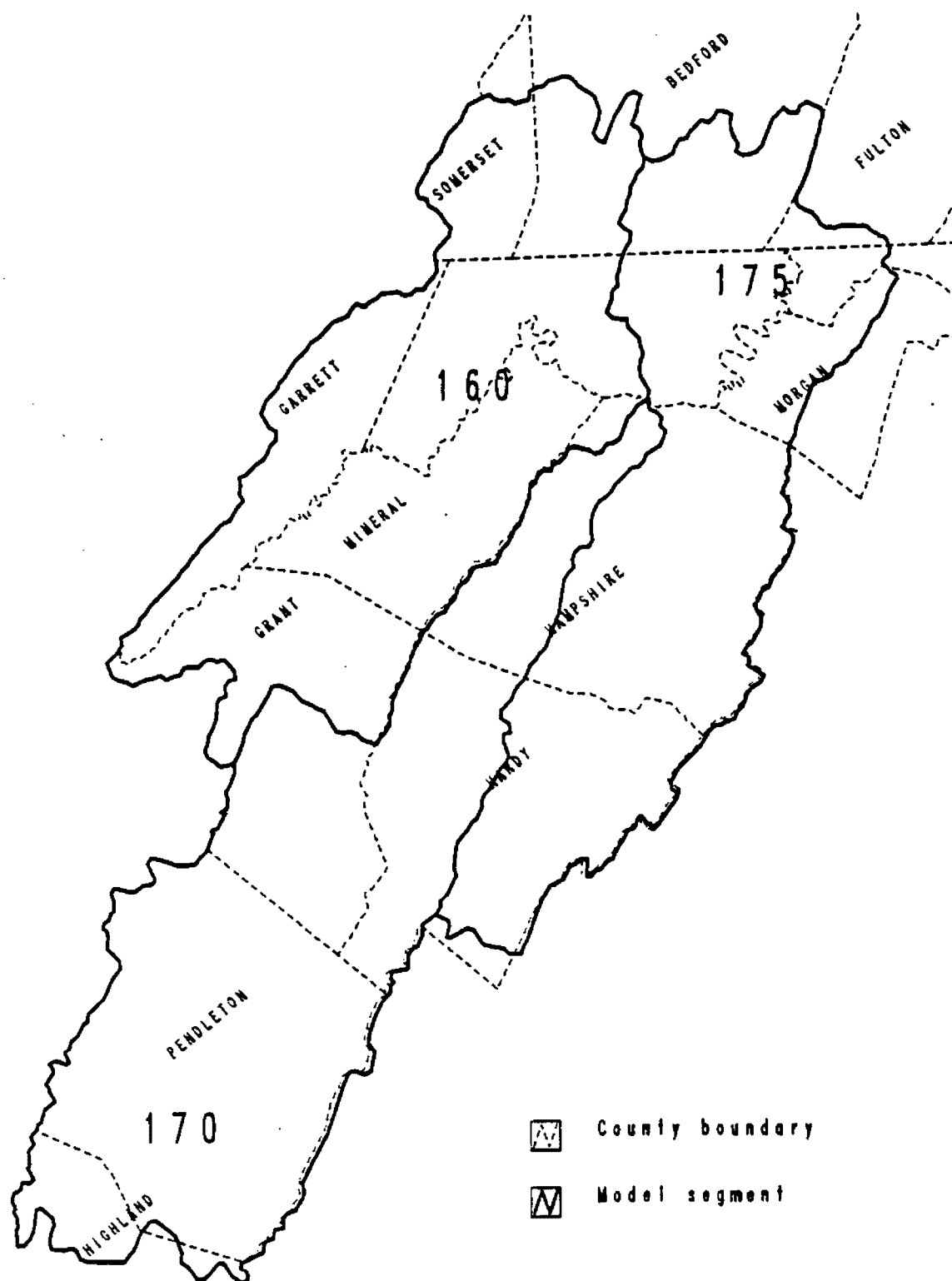
Model Segments and County Boundaries:
AFL Segments: 80, 110, 120, & 140
Susquehanna Basin



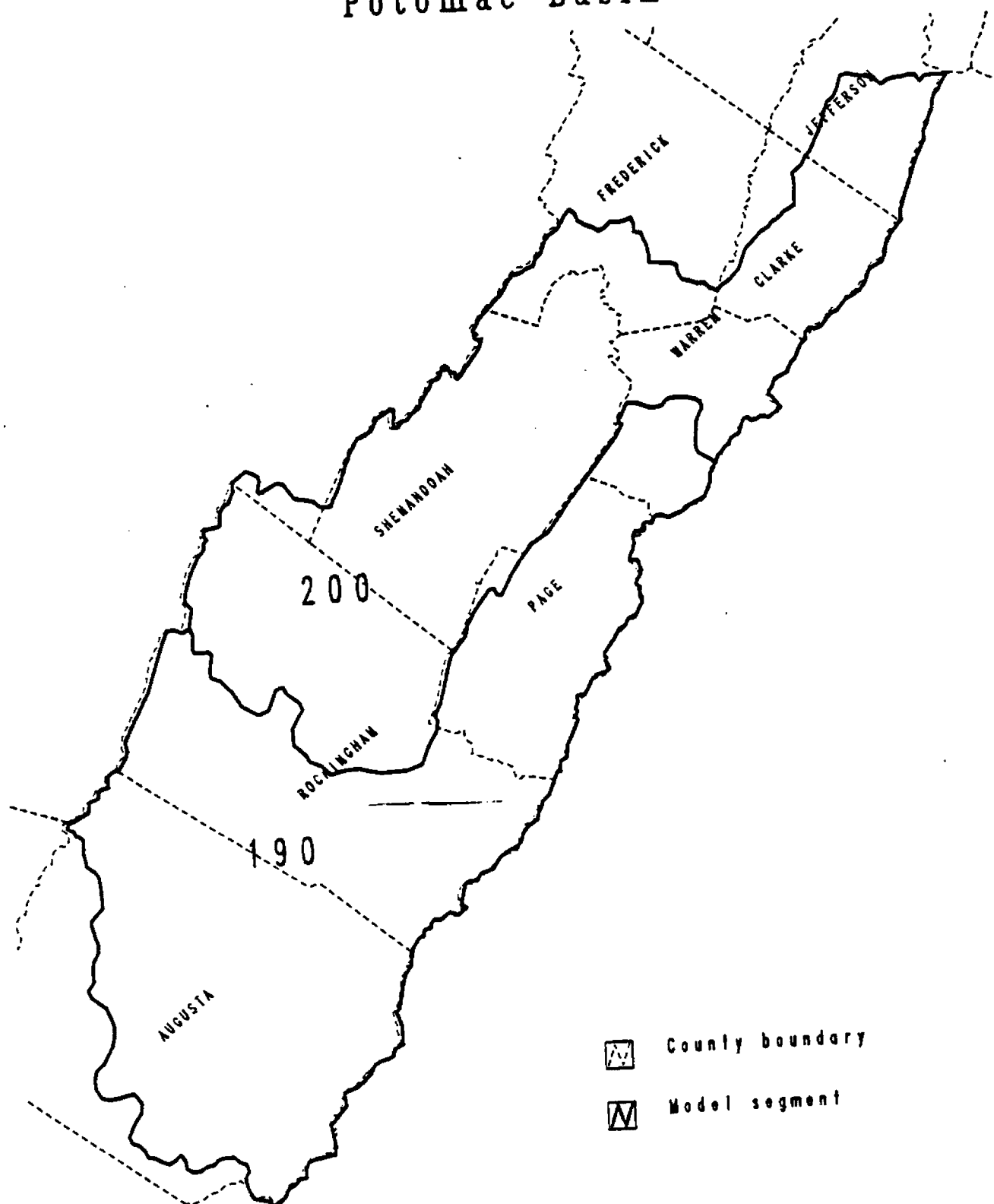
 County boundary

 Model segment

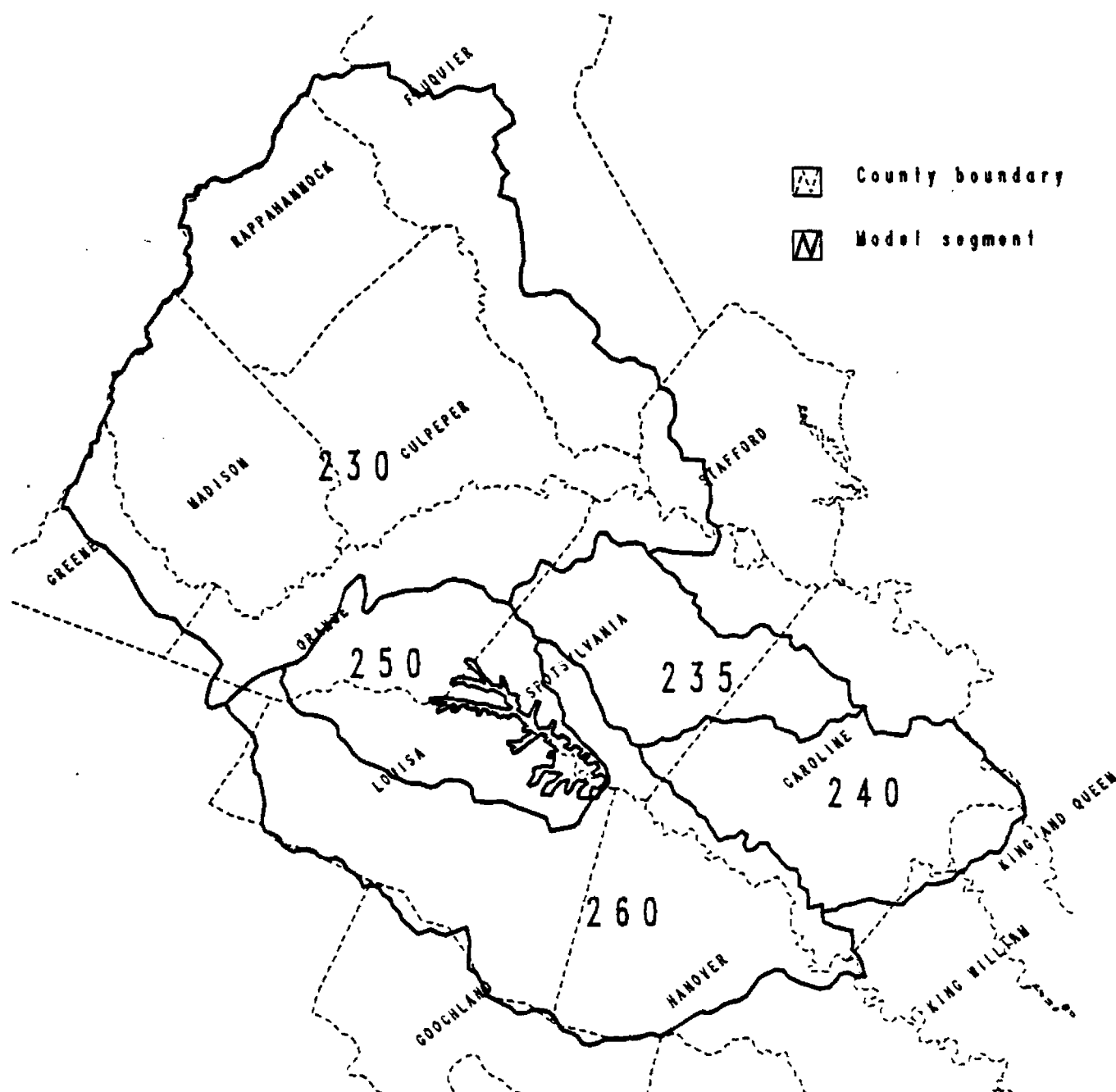
Model Segments and County Boundaries:
AFL Segments: 160, 170, & 175
Potomac Basin



Model Segments and County Boundaries:
AFL Segments: 190, & 200
Potomac Basin

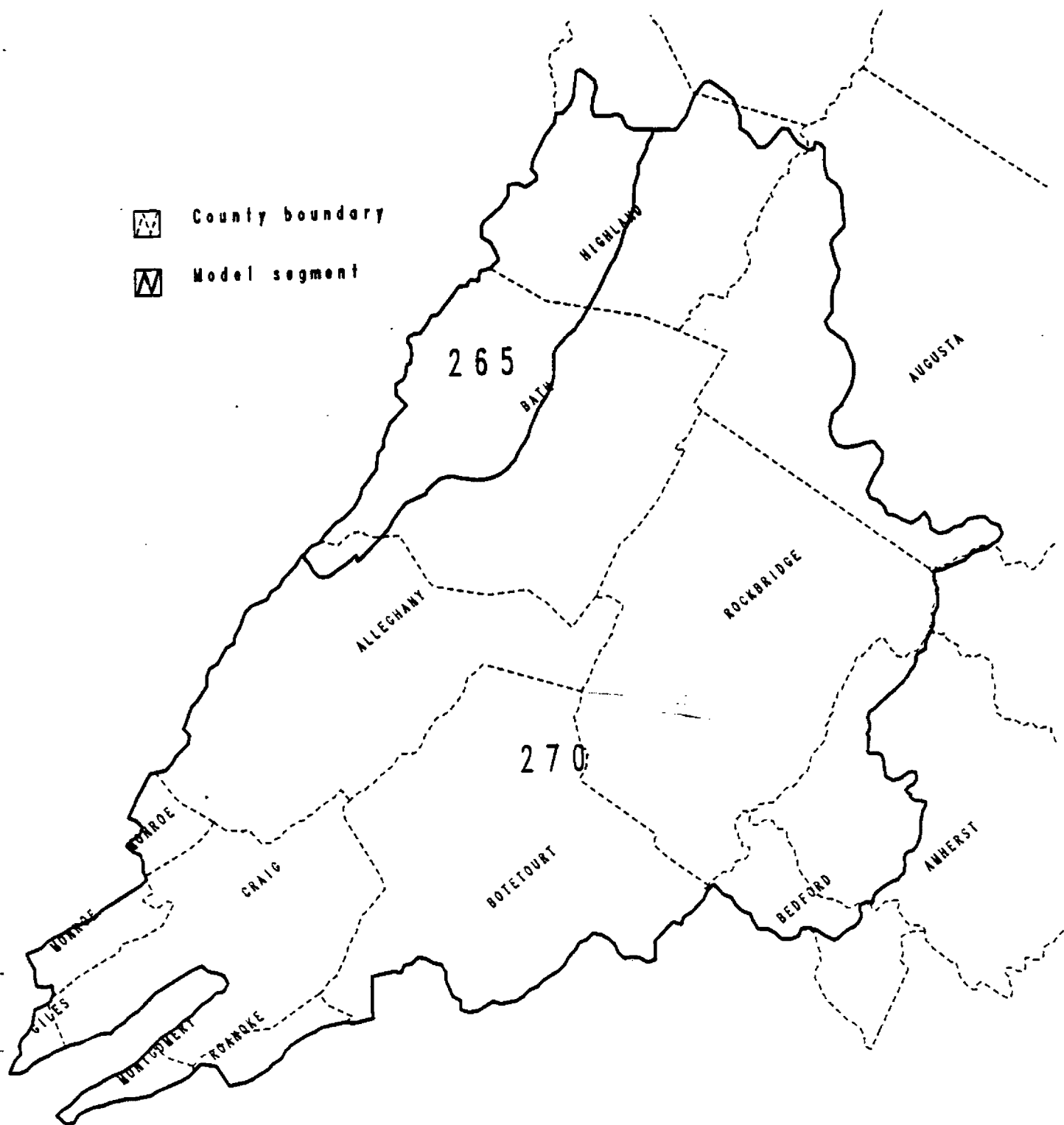


Model Segments and County Boundaries:
AFL Segments: 230, 235, 240, 250, & 260
Rappahannock, Mattaponi, & Pamunkey Basins

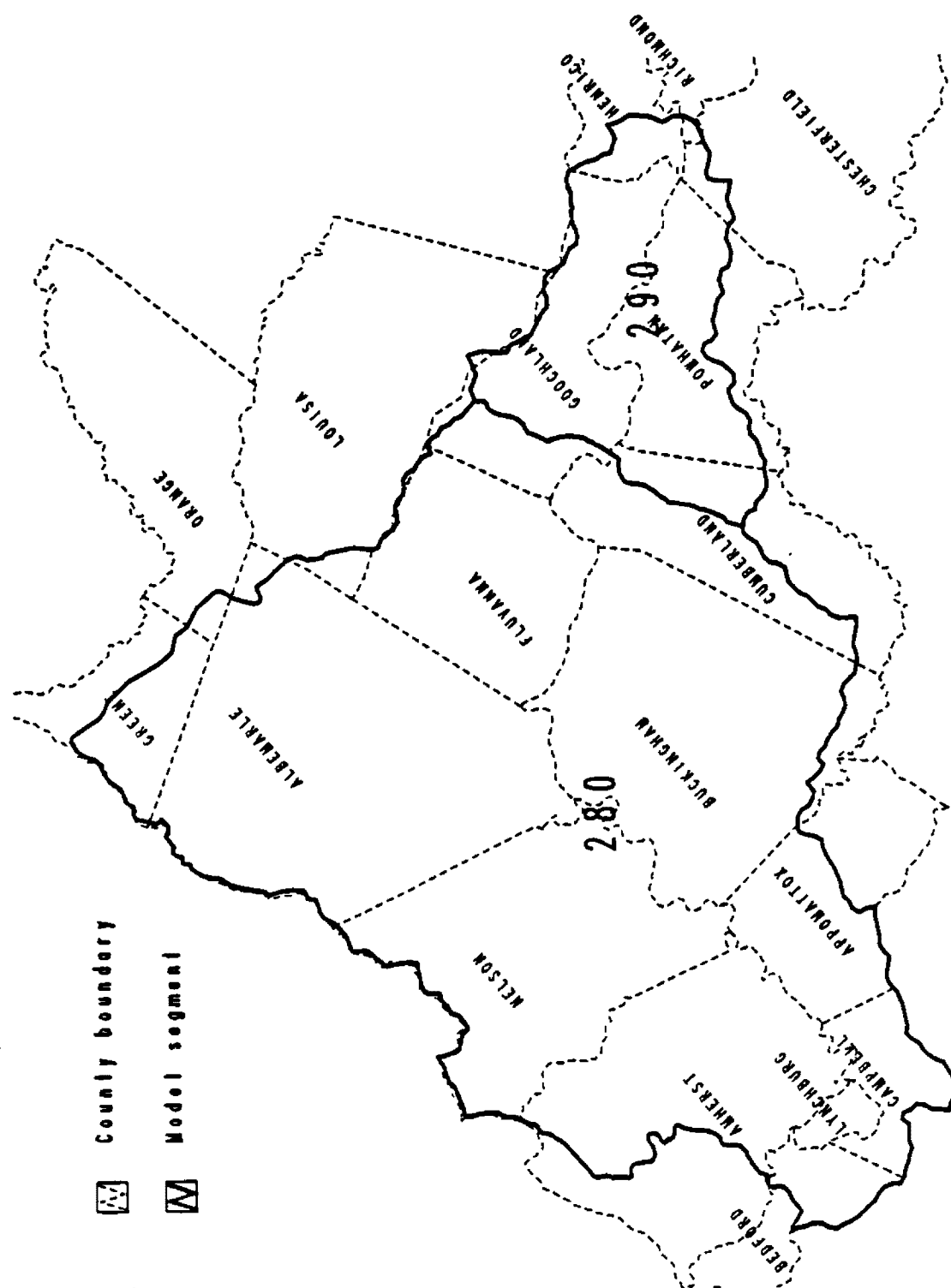


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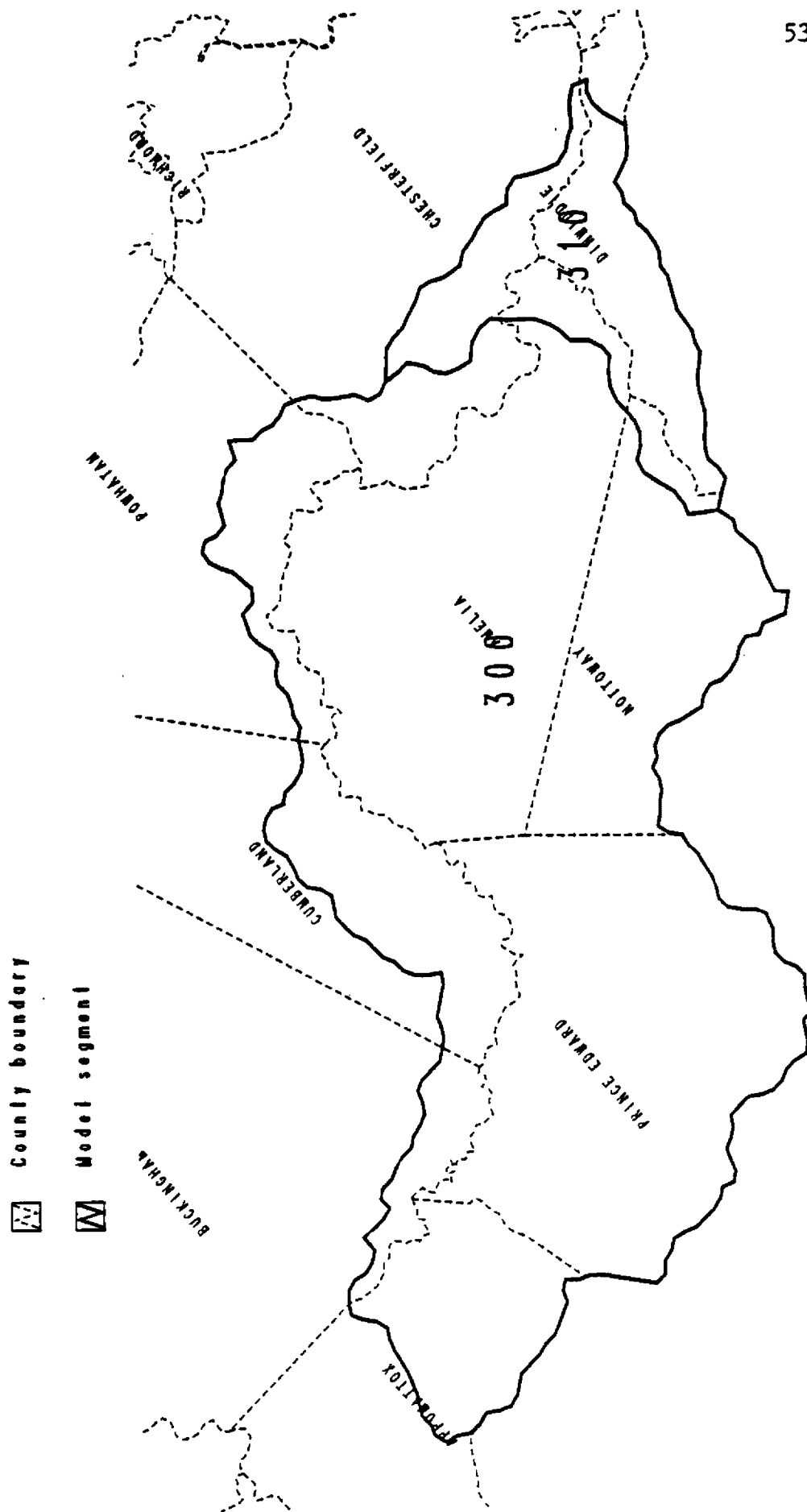
Model Segments and County Boundaries:
AFL Segments: 265 & 270
James Basin



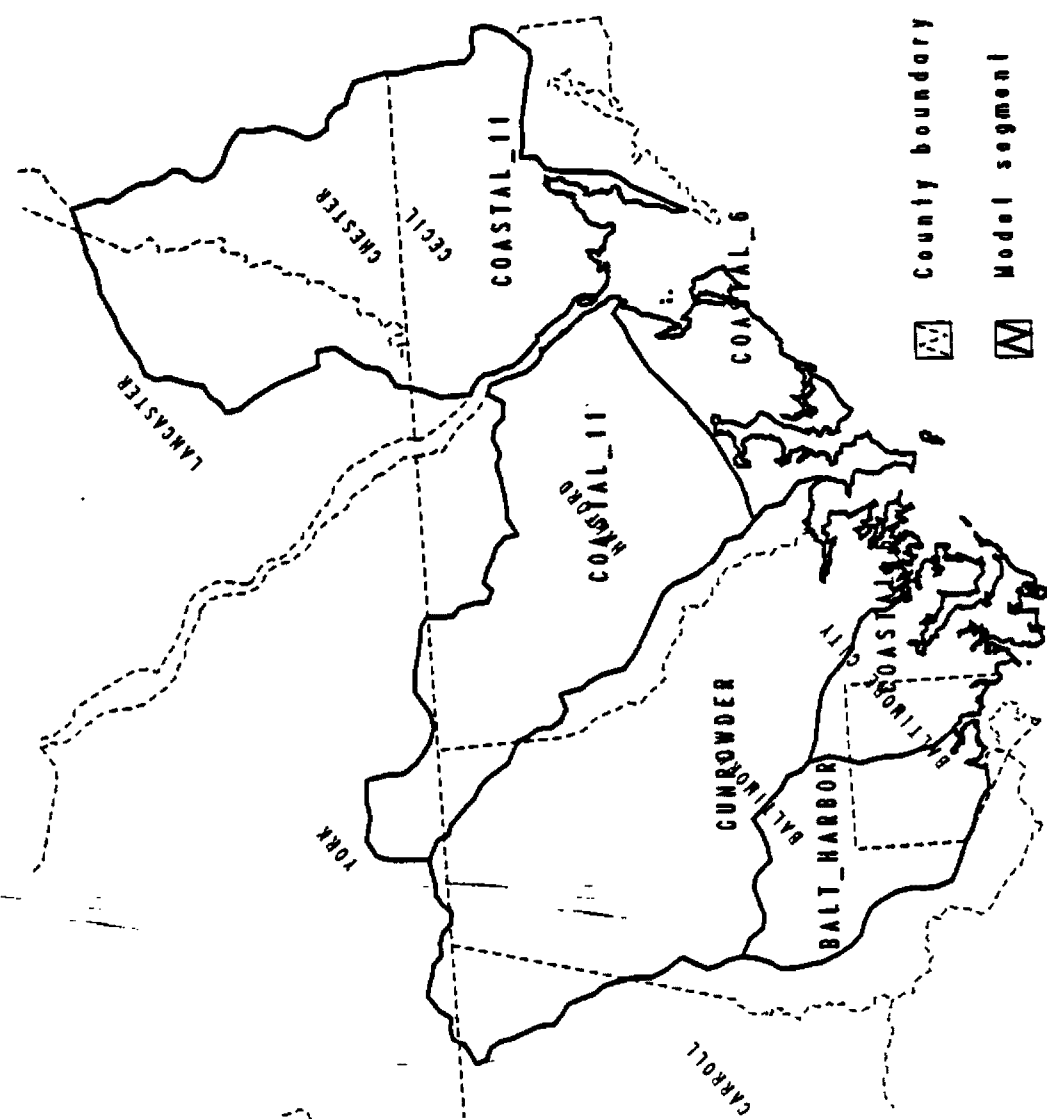
Model Segments and County Boundaries:
 AFL Segments: 280 & 290
 James Basin



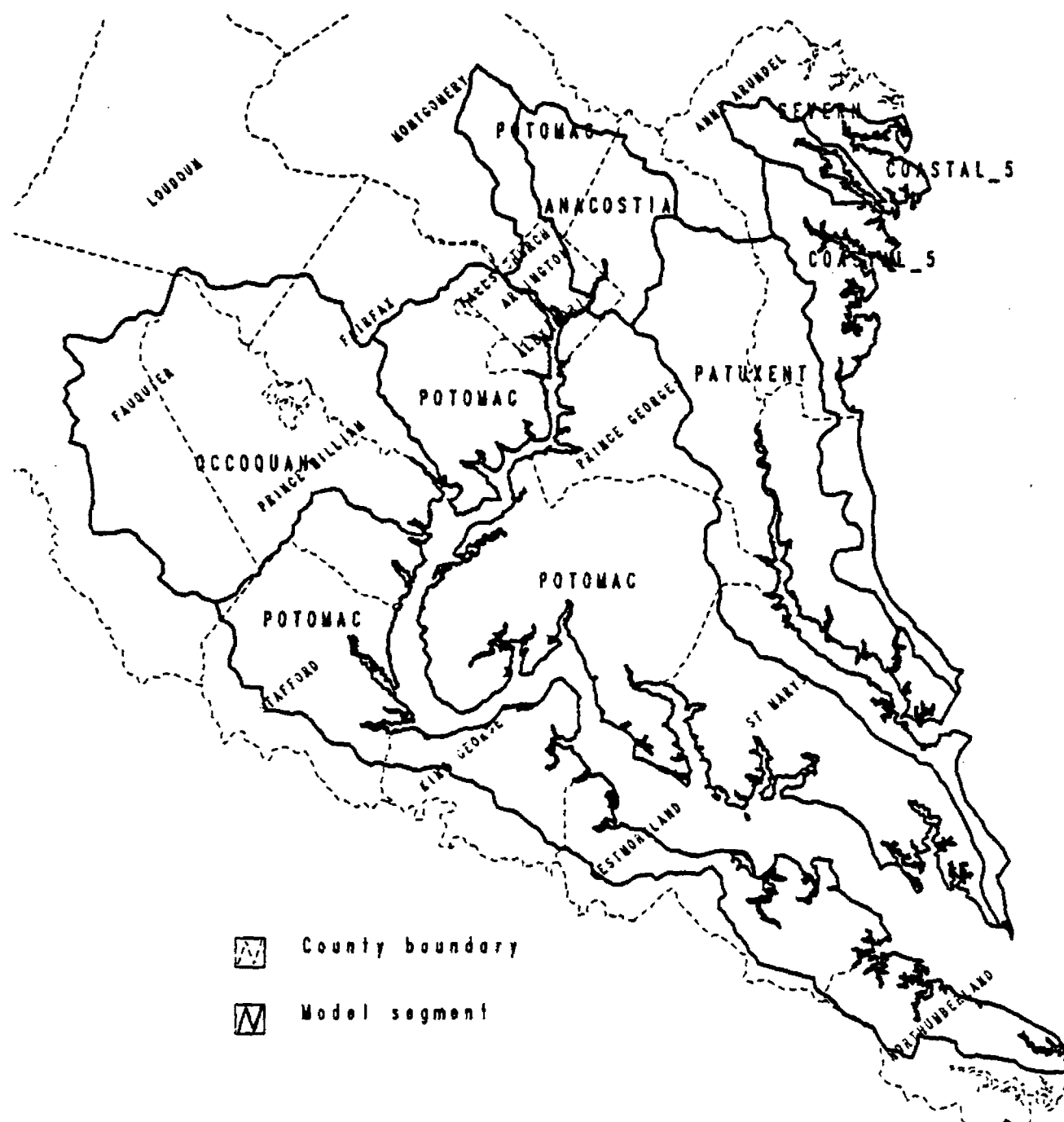
Model Segments and County Boundaries: AFL Segments: 300 & 310 Appomattox Basin



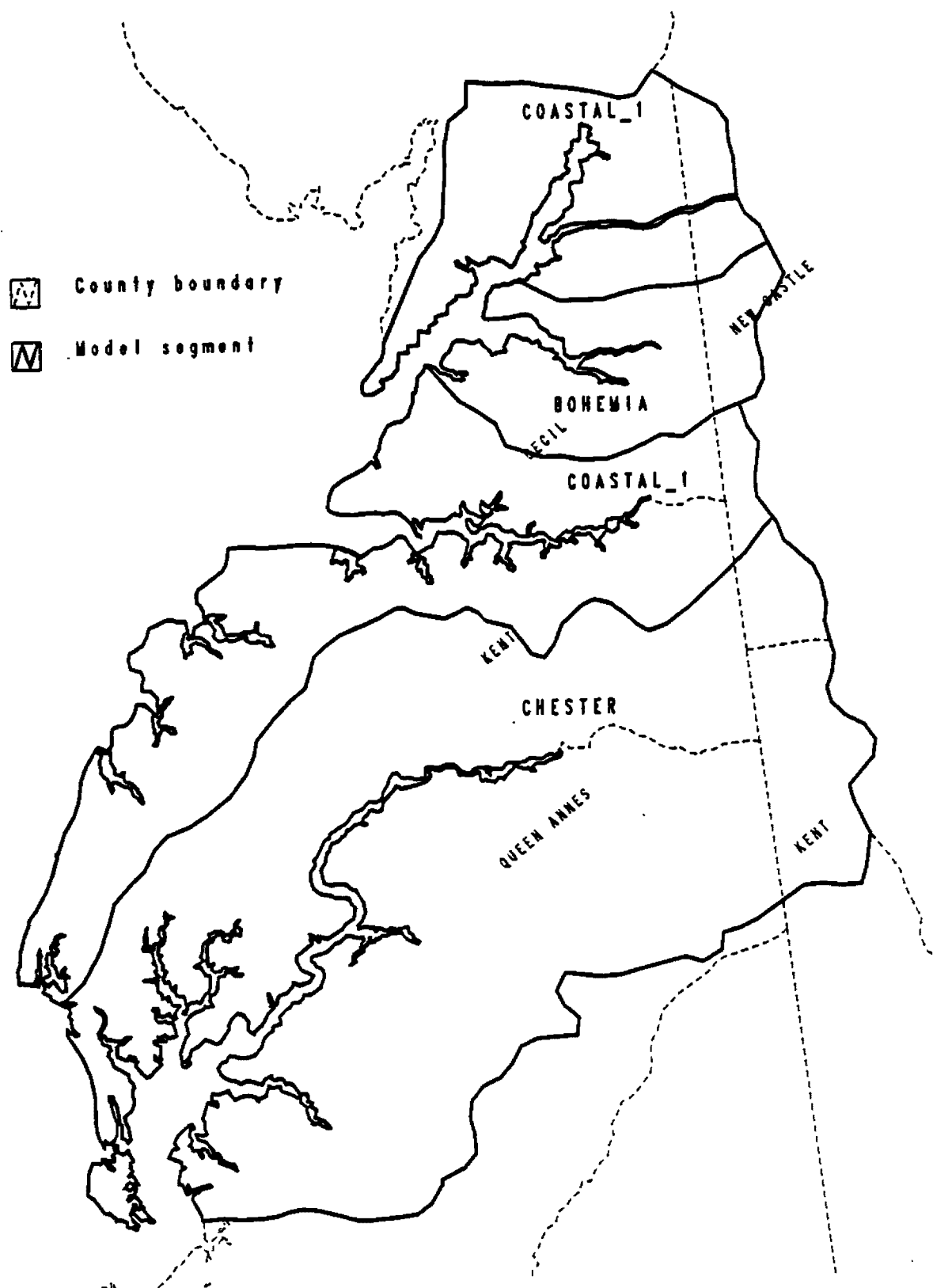
Model Segments and County Boundaries:
BFL Segments: Coastal-11, Gunpowder,
Balt-Harbor, & Coastal-6



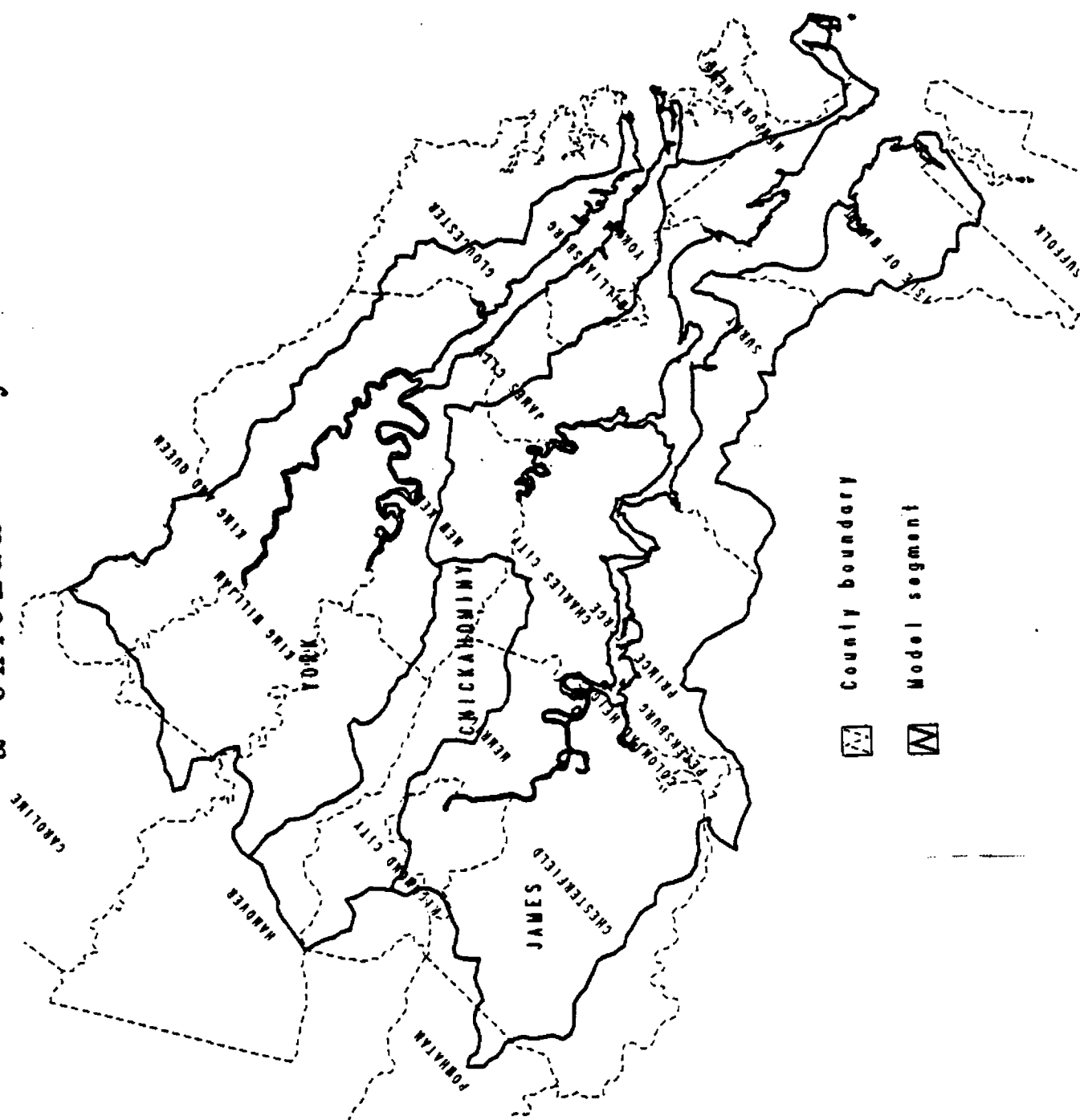
Model Segments and County Boundaries:
BFL Segments: Anacostia, Patuxent, Severn
Coastal-5, Occoquan, & Potomac



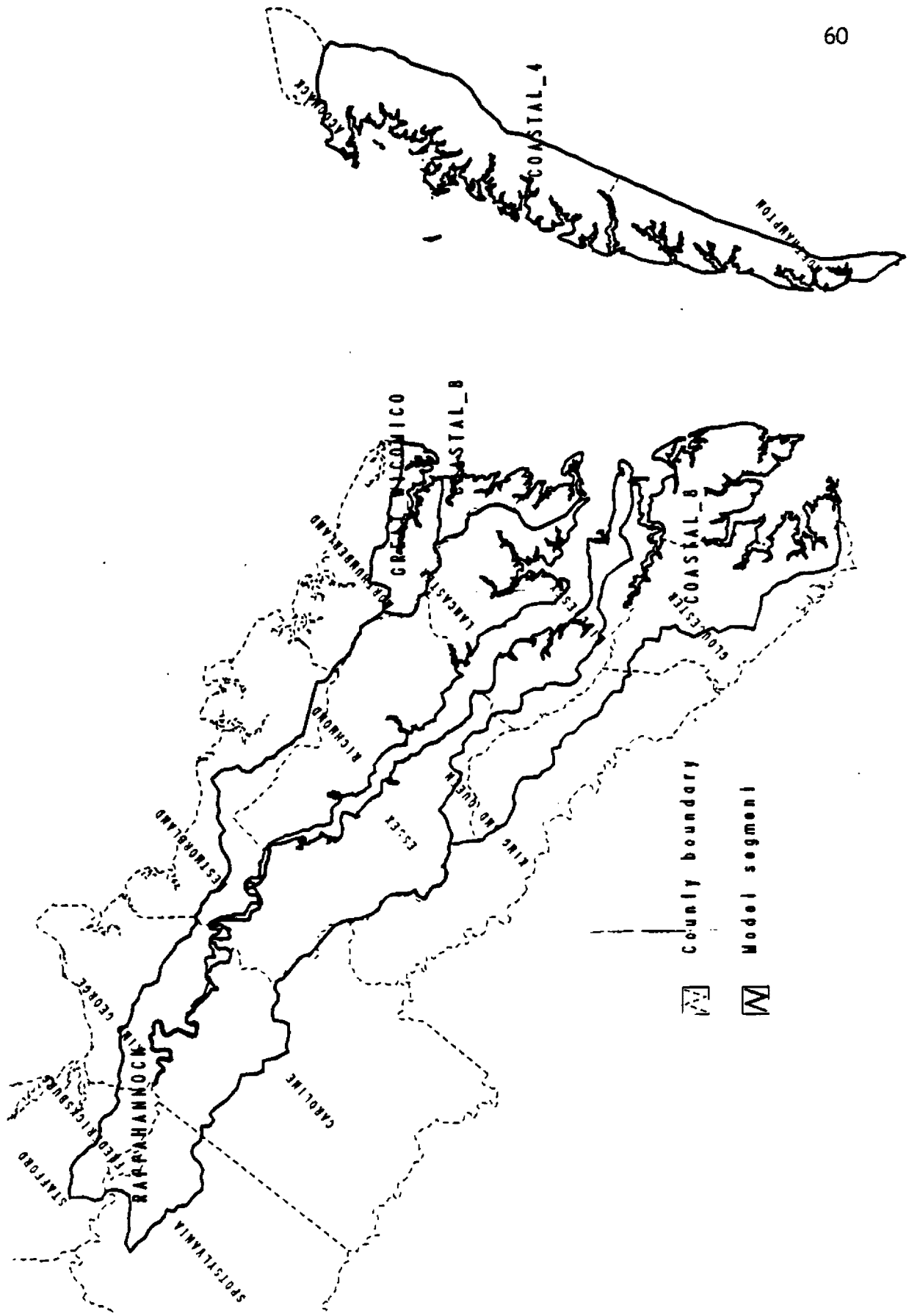
Model Segments and County Boundaries: BFL Segments: Coastal-1, Bohemia, & Chester



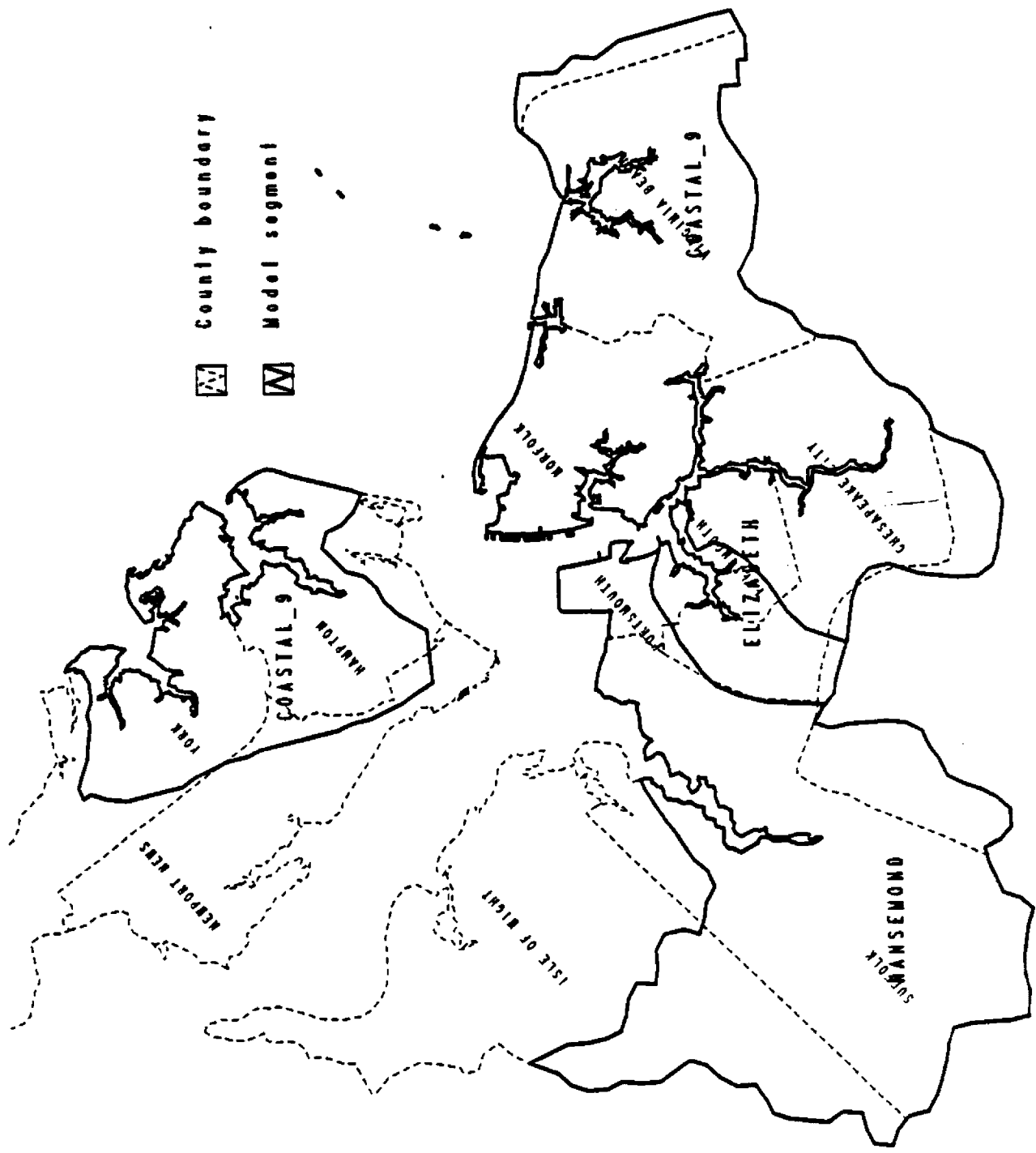
Model Segments and County Boundaries:
BFL Segments: James, York,
& Chickahominy



Model Segments and County Boundaries:
 BFL Segments: Coastal-4, Coastal-8,
 Great Wicomico, & Rappahannock



Model Segments and County Boundaries:
BFL Segments: Coastal-9, Nansemond,
& Elizabeth



APPENDIX E.9

1978 LAND USE FOR WATERSHED MODEL BY SEGMENTS
ABOVE THE FALL LINE

SEGMENT	CONS TILL	CONV TILL	PASTURE	FOREST	URBAN	WATER	TOTAL
10	28773	302094	173167	983020	195166	12275	1694496
20	36350	538141	348338	1801531	415518	54215	3194093
30	52552	256578	137022	917530	96302	101681	1561666
40	37330	182258	27868	606552	87279	13399	954686
50	15485	75605	66438	702078	51492	2887	913985
60	39157	191180	129542	2282166	75545	10139	2727730
70	27322	133397	33193	619741	31334	6549	851537
80	68158	332770	72587	840430	127406	21501	1462853
90	20024	97765	48239	404779	15459	13616	599882
100	48194	235299	83559	1104338	71235	5163	1547788
110	80790	392208	120337	487473	137764	11426	1229997
120	40569	198070	54526	113293	67634	1246	475338
140	14684	63850	24016	60534	25383	283	188749
160	29617	71759	96053	613088	47759	5004	863279
170	18824	32946	156374	715033	22549	2336	948061
175	23610	56527	103336	576678	42264	2398	804813
180	125353	338933	227588	769893	133525	8949	1604241
190	46553	119707	209681	624487	34456	3520	1038403
200	46032	109447	187623	529160	25467	2113	899842
210	72788	175332	81309	207108	79659	5178	621373
220	43349	102428	112726	233989	117952	872	611317
230	48091	123664	225719	605450	21438	2240	1026602
235	5893	15155	6590	127011	8723	1202	164574
240	6639	17072	4583	176614	9510	1799	216217
250	7870	20237	19987	152844	9084	3884	213905
260	21026	54066	19878	347320	28603	701	471594
265	1826	4695	23461	191039	1778	0	222798
270	48219	122295	234581	1416456	43329	1841	1866722
280	54593	140382	240602	1404995	62754	9784	1913110
290	11737	30182	26184	239999	15020	4366	327487
300	29950	77014	67645	557906	30465	1180	764160
310	3200	8229	3228	73640	9704	3235	101237
330	5991	12163	8659	25842	29422	3182	85258
340	6674	13549	10576	49475	48372	9221	137867

APPENDIX E.9 (continued) 1978 LAND USE FOR WATERSHED MODEL BY SEGMENTS
BELOW THE FALL LINE

SEGMENT	CONS TILL	CONV TILL	PASTURE	FOREST	URBAN	WATER	TOTAL
ANACOSTIA	4868	9882	5100	36363	47243	620	104075
BALT_HARBOR	2465	5004	3550	17578	23089	268	51954
BOHEMIA	3769	6930	2003	13402	10909	1044	38057
CHESTER	50380	99192	6938	77166	28197	6374	268246
CHICKAHOMINY	8183	21042	3408	99882	24238	428	157180
CHOPTANK	64057	122277	6619	138861	38905	2153	372871
COASTAL_1	65420	131691	10567	251251	49060	44750	552738
COASTAL_11	36184	107394	53474	170576	103529	189	471345
COASTAL_4	16665	42852	1223	125576	5634	14481	206431
COASTAL_5	5112	10380	3113	70942	47302	6429	143278
COASTAL_6	6239	12668	9286	39724	25854	1477	95247
COASTAL_8	13985	35962	2259	206305	14348	10642	283501
COASTAL_9	7608	19563	947	64232	120981	5850	219180
ELIZABETH	578	1486	51	7630	8759	0	18504
GREAT_WICOMICO	3227	8298	315	25287	1821	2648	41596
GUNPOWDER	17284	36268	24026	101320	112480	391	291770
JAMES	29071	74748	11523	545432	127606	24767	813147
NANSEMOND	9622	24743	2642	85101	10912	3172	136193
NANTICOKE	86035	136344	7947	239196	41937	0	511460
OCCOQUAN	17619	45307	64116	157769	41363	2210	328384
PATAPSCO	26311	53419	31414	93442	71727	1235	277548
PATUXENT	16979	34473	9937	182924	103524	8259	356096
POCOMOKE	40162	79304	5871	331017	22869	1423	480646
POTOMAC	55949	127022	36756	659184	263918	24079	1166908
RAPPAHANNOCK	34691	89205	13390	441834	33287	15381	627788
SEVERN	834	1693	631	13713	12267	1232	30369
WICOMICO	12381	24987	1490	80388	18171	0	137416
WYE	10318	20948	1197	15413	7849	2221	57945
YORK	25235	64890	11507	419092	51098	17003	588825

APPENDIX E.10

1985 LAND USE FOR WATERSHED MODEL BY SEGMENTS
ABOVE THE FALL LINE

SEGMENT	CONS TILL	CONV TILL	HAY	PASTURE	FOREST	URBAN	MANURE ACRES	WATER	TOTAL
10	10869	100723	226565	159325	984938	199187	614	12275	1694496
20	10943	160951	401085	300413	1844310	420461	1716	54215	3194093
30	14797	78620	240216	145469	875001	105210	668	101685	1561665
40	54651	126240	63556	29624	570931	96136	149	13399	954688
50	9509	37257	54900	73066	679540	56731	94	2887	913984
60	43988	66122	134578	139180	2254498	78824	402	10139	2727731
70	44435	62800	62979	31756	610012	32814	193	6549	851539
80	133753	144248	149693	76107	802377	134620	556	21501	1462854
90	29316	24395	71198	49973	394793	16180	211	13616	599881
100	62717	91758	148417	87849	1076335	74940	607	5163	1547786
110	200603	173581	152836	127623	416256	146910	763	11426	1229997
120	85976	104846	70578	58097	80692	73096	806	1246	475338
140	37578	27034	20404	24304	52115	26872	160	283	188749
160	11180	17350	57926	108588	614346	48740	145	5004	863279
170	2998	7080	37911	148161	726540	22927	108	2336	948061
175	11118	13174	41362	105876	584313	46443	128	2398	804813
180	168939	84971	199500	220191	722664	198101	925	8949	1604241
190	49723	21425	116083	211836	594668	40625	522	3520	1038403
200	32018	22470	88901	200709	503065	50154	412	2113	899842
210	127498	38588	97542	79147	189716	83164	540	5178	621373
220	69422	8121	71578	105951	209156	146032	186	872	611317
230	37390	25054	121214	224145	577312	38857	391	2240	1026602
235	5094	7131	8852	7370	123800	11106	21	1202	164574
240	18703	4081	2816	2337	176769	9702	9	1799	216217
250	5830	9007	14837	22253	146892	11153	50	3884	213905
260	28427	17381	28076	24010	335375	37553	71	701	471594
265	738	335	10845	19177	189339	2350	13	0	222798
270	37671	8075	162192	233212	1364448	58967	316	1841	1866720
280	29341	25308	147753	269838	1356569	74187	331	9784	1913110
290	14252	11562	21120	32646	222413	21071	57	4366	327487
300	37019	33120	52912	80932	525824	33036	137	1180	764160
310	2600	8054	217	4191	71259	11673	8	3235	101237
330	10233	2225	4845	8477	25606	30668	23	3182	85258
340	8806	4956	5352	10534	45387	53586	26	9221	137867

APPENDIX E.10 (continued)

1985 LAND USE FOR WATERSHED MODEL BY SEGMENTS
BELOW THE FALL LINE

SEGMENT	CONS TILL	CONV TILL	HAY	PASTURE	FOREST	URBAN	MANURE ACRES	WATER	TOTAL
ANACOSTIA	5712	4486	3966	3532	33308	52442	11	620	104075
BALT_HARBOR	3558	2193	1718	3540	14612	26055	10	268	51954
BOHEMIA	5875	2891	1924	1867	13354	11089	12	1044	38057
CHESTER	115199	26375	7451	5493	77240	30044	72	6374	268246
CHICKAHOMINY	13915	5661	3729	4013	96481	32942	11	428	157180
CHOPTANK	103255	80022	6059	5884	135173	40276	49	2153	372871
COASTAL_1	131680	58234	8949	9108	249573	50373	71	44750	552738
COASTAL_11	68763	40061	41278	49235	164399	107100	321	189	471345
COASTAL_4	23897	35242	297	2658	123651	6204	2	14481	206431
COASTAL_5	5191	4553	3353	3147	62007	58593	5	6429	143278
COASTAL_6	9975	3883	5048	7632	38912	28291	28	1477	95247
COASTAL_8	11244	37840	2045	7143	197054	17525	7	10642	283501
COASTAL_9	20614	5854	213	1343	54841	130440	21	5850	219180
ELIZABETH	1433	1187	3	111	6276	9493	1	0	18504
GREAT_WICOMICO	3167	8774	133	990	23861	2023	1	2648	41596
GUNPOWDER	26048	14662	13068	22795	88338	126398	72	391	291770
JAMES	45912	43813	5829	18253	525519	149020	34	24767	813147
NANSEMOND	19434	15119	349	3860	73812	20441	5	3172	136193
NANTICOKE	137165	74878	7919	4579	239890	46993	37	0	511460
OCCOQUAN	23599	4508	41292	50331	150755	55594	97	2210	328384
PATAPSCO	36968	20211	21148	29197	88664	80015	110	1235	277548
PATUXENT	12075	26009	9760	7105	163992	128881	15	8259	356096
POCOMOKE	79758	40847	2839	5601	326226	23929	22	1423	480646
POTOMAC	56477	93729	28398	38337	628468	297355	65	24079	1166908
RAPPAHANNOCK	38466	90525	7942	17024	422678	35685	86	15381	627788
SEVERN	897	377	630	673	12270	14288	2	1231	30369
WICOMICO	12012	23068	752	1248	81851	18478	5	0	137416
WYE	19856	10255	1028	1164	15138	8274	10	2221	57945
YORK	44700	44936	8220	12593	401542	59765	66	17003	588825

APPENDIX E.11 COVER, KRER, AND SLSUR PARAMETERS CALCULATED FROM 1982 NRI REPORT
ABOVE FALL LINE

SEGMENT	LAND USE	J	F	M	A	M	J	J	A	S	O	N	D	KRER	SLSUR
MONTHLY COVER															
10	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.248	0.210
	Conv-Till	0.31	0.29	0.19	0.25	0.32	0.45	0.70	0.88	0.93	0.42	0.34	0.33	0.293	0.070
	Cons-Till	0.37	0.35	0.33	0.33	0.36	0.52	0.70	0.88	0.93	0.47	0.42	0.39	0.293	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.276	0.100
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.293	0.070
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.276	0.100
20	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.240	0.160
	Conv-Till	0.24	0.22	0.09	0.11	0.17	0.45	0.70	0.88	0.93	0.36	0.27	0.26	0.281	0.070
	Cons-Till	0.28	0.25	0.24	0.23	0.25	0.51	0.70	0.88	0.93	0.38	0.33	0.31	0.281	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.279	0.090
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.281	0.070
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.279	0.090
30	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.221	0.190
	Conv-Till	0.28	0.25	0.10	0.14	0.19	0.45	0.70	0.88	0.93	0.40	0.31	0.30	0.263	0.090
	Cons-Till	0.33	0.30	0.29	0.28	0.30	0.52	0.70	0.88	0.93	0.44	0.39	0.36	0.263	0.090
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.251	0.110
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.263	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.251	0.110
40	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.217	0.200
	Conv-Till	0.40	0.37	0.19	0.25	0.30	0.38	0.68	0.87	0.92	0.61	0.43	0.43	0.259	0.090
	Cons-Till	0.51	0.48	0.45	0.44	0.47	0.51	0.68	0.87	0.92	0.61	0.43	0.43	0.259	0.090
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.262	0.110
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.259	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.262	0.110
50	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.235	0.180
	Conv-Till	0.40	0.37	0.24	0.32	0.39	0.44	0.70	0.88	0.93	0.53	0.42	0.42	0.282	0.090
	Cons-Till	0.51	0.48	0.46	0.47	0.50	0.56	0.70	0.88	0.93	0.64	0.58	0.54	0.282	0.090
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.306	0.100
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.282	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.306	0.100
60	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.225	0.220
	Conv-Till	0.37	0.34	0.15	0.20	0.26	0.43	0.69	0.88	0.93	0.54	0.40	0.40	0.268	0.080
	Cons-Till	0.47	0.44	0.41	0.40	0.42	0.53	0.69	0.88	0.93	0.62	0.54	0.50	0.268	0.080
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.278	0.120
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.268	0.080
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.278	0.120

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
70	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.219	0.210
	Conv-Till	0.38	0.34	0.17	0.22	0.28	0.38	0.68	0.87	0.92	0.58	0.41	0.41	0.264	0.080
	Cons-Till	0.47	0.44	0.42	0.41	0.43	0.50	0.68	0.88	0.92	0.66	0.55	0.51	0.264	0.080
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.267	0.100
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.264	0.080
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.267	0.100
80	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.216	0.200
	Conv-Till	0.36	0.33	0.20	0.26	0.32	0.41	0.69	0.87	0.92	0.52	0.39	0.39	0.270	0.070
	Cons-Till	0.44	0.42	0.40	0.40	0.43	0.51	0.69	0.88	0.92	0.60	0.51	0.48	0.270	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.290	0.090
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.270	0.070
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.290	0.090
90	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.217	0.210
	Conv-Till	0.32	0.30	0.14	0.19	0.25	0.44	0.70	0.88	0.93	0.46	0.36	0.35	0.262	0.090
	Cons-Till	0.39	0.37	0.35	0.34	0.36	0.53	0.70	0.88	0.93	0.51	0.45	0.42	0.262	0.090
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.281	0.120
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.262	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.281	0.120
100	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.219	0.210
	Conv-Till	0.35	0.32	0.15	0.21	0.27	0.43	0.70	0.88	0.93	0.50	0.38	0.38	0.277	0.090
	Cons-Till	0.43	0.41	0.38	0.38	0.40	0.53	0.70	0.88	0.93	0.57	0.50	0.47	0.277	0.090
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.300	0.120
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.277	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.300	0.120
110	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.243	0.160
	Conv-Till	0.38	0.36	0.19	0.22	0.32	0.44	0.74	0.92	0.92	0.60	0.48	0.41	0.290	0.070
	Cons-Till	0.46	0.44	0.42	0.41	0.46	0.55	0.74	0.92	0.92	0.65	0.56	0.50	0.290	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.313	0.080
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.290	0.070
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.65	0.73	0.85	0.85	0.85	0.313	0.080
120	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.261	0.150
	Conv-Till	0.35	0.33	0.12	0.14	0.24	0.46	0.74	0.92	0.92	0.57	0.46	0.38	0.295	0.070
	Cons-Till	0.43	0.40	0.38	0.36	0.41	0.56	0.74	0.92	0.92	0.63	0.53	0.47	0.295	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.327	0.070
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.295	0.070
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.65	0.73	0.85	0.85	0.85	0.327	0.070

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	M	D		
140	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.310	0.130
	Conv-Till	0.39	0.37	0.20	0.23	0.33	0.45	0.74	0.92	0.92	0.60	0.49	0.42	0.318	0.060
	Cons-Till	0.47	0.45	0.43	0.42	0.47	0.56	0.74	0.92	0.92	0.69	0.57	0.51	0.318	0.060
	Pasture	0.90	0.90	0.90	0.90	0.90	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.342	0.080
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.318	0.060
160	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.342	0.080
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.218	0.240
	Conv-Till	0.32	0.30	0.19	0.25	0.32	0.45	0.70	0.88	0.93	0.44	0.35	0.35	0.270	0.090
	Cons-Till	0.39	0.37	0.35	0.35	0.38	0.52	0.70	0.88	0.93	0.49	0.45	0.41	0.270	0.090
	Pasture	0.90	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.91	0.90	0.90	0.267	0.140
170	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.270	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.267	0.140
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.224	0.280
	Conv-Till	0.24	0.21	0.04	0.06	0.11	0.45	0.70	0.88	0.93	0.37	0.27	0.26	0.302	0.080
	Cons-Till	0.28	0.25	0.24	0.22	0.24	0.50	0.70	0.88	0.93	0.39	0.34	0.31	0.302	0.080
175	Pasture	0.90	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.91	0.90	0.90	0.289	0.150
	Urban	0.90	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.91	0.90	0.90	0.302	0.080
	Hay	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.289	0.150
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.228	0.240
	Conv-Till	0.31	0.29	0.14	0.18	0.24	0.44	0.70	0.88	0.93	0.45	0.34	0.34	0.291	0.090
180	Cons-Till	0.37	0.34	0.33	0.32	0.34	0.51	0.70	0.88	0.93	0.50	0.43	0.40	0.291	0.090
	Pasture	0.90	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.91	0.90	0.90	0.297	0.140
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.291	0.090
	Hay	0.85	0.85	0.88	0.65	0.65	0.93	0.93	0.93	0.88	0.85	0.85	0.85	0.297	0.140
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.236	0.200
190	Conv-Till	0.34	0.33	0.20	0.23	0.34	0.47	0.74	0.93	0.93	0.50	0.43	0.37	0.302	0.070
	Cons-Till	0.40	0.38	0.37	0.36	0.42	0.56	0.74	0.93	0.93	0.56	0.49	0.43	0.302	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.308	0.080
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.302	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.308	0.080
190	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.271	0.220
	Conv-Till	0.23	0.22	0.15	0.17	0.28	0.50	0.75	0.93	0.93	0.32	0.29	0.24	0.320	0.070
	Cons-Till	0.25	0.23	0.23	0.24	0.30	0.54	0.75	0.93	0.93	0.33	0.30	0.26	0.320	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.303	0.110
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.320	0.070
190	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.313	0.110

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
200	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.255	0.210
	Conv-Till	0.27	0.27	0.18	0.20	0.31	0.48	0.74	0.93	0.93	0.40	0.34	0.29	0.321	0.060
	Cons-Till	0.31	0.29	0.29	0.29	0.35	0.54	0.74	0.93	0.93	0.43	0.37	0.33	0.321	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.311	0.090
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.321	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.320	0.090
210	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.268	0.160
	Conv-Till	0.35	0.34	0.23	0.27	0.37	0.44	0.74	0.92	0.92	0.52	0.43	0.37	0.313	0.060
	Cons-Till	0.40	0.39	0.38	0.38	0.43	0.52	0.74	0.92	0.92	0.60	0.49	0.43	0.313	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.320	0.080
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.313	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.320	0.080
220	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.295	0.120
	Conv-Till	0.34	0.32	0.12	0.14	0.22	0.40	0.73	0.92	0.92	0.63	0.45	0.38	0.323	0.070
	Cons-Till	0.43	0.40	0.38	0.36	0.41	0.52	0.73	0.92	0.92	0.68	0.53	0.47	0.323	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.313	0.090
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.323	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.313	0.090
230	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.260	0.140
	Conv-Till	0.28	0.27	0.12	0.14	0.23	0.46	0.74	0.92	0.92	0.47	0.37	0.31	0.310	0.060
	Cons-Till	0.34	0.32	0.31	0.30	0.35	0.54	0.74	0.92	0.92	0.50	0.42	0.37	0.319	0.060
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.270	0.090
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.270	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.303	0.090
235	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.300	0.080
	Conv-Till	0.28	0.27	0.20	0.21	0.38	0.65	0.84	0.90	0.90	0.67	0.39	0.30	0.313	0.050
	Cons-Till	0.35	0.32	0.30	0.30	0.41	0.65	0.87	0.90	0.90	0.71	0.47	0.39	0.313	0.050
	Pasture	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.318	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.313	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.318	0.070
240	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.248	0.080
	Conv-Till	0.30	0.30	0.24	0.25	0.37	0.63	0.83	0.89	0.89	0.72	0.41	0.32	0.269	0.030
	Cons-Till	0.38	0.35	0.33	0.33	0.40	0.64	0.87	0.89	0.89	0.78	0.50	0.43	0.269	0.030
	Pasture	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.277	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.269	0.030
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.277	0.070

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
250	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.316	0.070
	Conv-Till	0.29	0.29	0.17	0.21	0.47	0.68	0.86	0.92	0.92	0.57	0.44	0.32	0.312	0.050
	Cons-Till	0.35	0.32	0.31	0.31	0.50	0.68	0.88	0.92	0.92	0.60	0.47	0.39	0.312	0.050
	Pasture	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.315	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.312	0.050
260	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.315	0.070
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.286	0.100
	Conv-Till	0.29	0.30	0.25	0.27	0.42	0.65	0.84	0.90	0.90	0.66	0.40	0.32	0.293	0.050
	Cons-Till	0.36	0.34	0.33	0.33	0.43	0.65	0.87	0.90	0.90	0.72	0.47	0.40	0.293	0.050
	Pasture	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.299	0.070
265	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.293	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.299	0.070
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.251	0.270
	Conv-Till	0.20	0.17	0.01	0.01	0.11	0.50	0.75	0.93	0.93	0.34	0.28	0.22	0.298	0.090
	Cons-Till	0.24	0.22	0.20	0.19	0.25	0.55	0.75	0.93	0.93	0.35	0.31	0.26	0.298	0.090
270	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.288	0.150
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.298	0.090
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.288	0.150
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.251	0.270
	Conv-Till	0.25	0.24	0.10	0.12	0.22	0.50	0.75	0.93	0.93	0.37	0.33	0.27	0.298	0.090
280	Cons-Till	0.29	0.27	0.26	0.25	0.31	0.55	0.75	0.93	0.93	0.40	0.36	0.31	0.298	0.090
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.288	0.150
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.298	0.090
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.288	0.150
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.283	0.160
280	Conv-Till	0.26	0.24	0.15	0.18	0.24	0.31	0.71	0.90	0.90	0.57	0.34	0.30	0.302	0.070
	Cons-Till	0.32	0.30	0.29	0.29	0.33	0.42	0.71	0.91	0.91	0.61	0.40	0.35	0.302	0.070
	Pasture	0.90	0.90	0.90	0.91	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.292	0.110
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.302	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.292	0.110
290	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.272	0.070
	Conv-Till	0.22	0.22	0.21	0.22	0.38	0.64	0.83	0.90	0.90	0.59	0.30	0.24	0.272	0.040
	Cons-Till	0.26	0.24	0.23	0.24	0.38	0.64	0.87	0.90	0.90	0.62	0.36	0.31	0.272	0.040
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.272	0.060
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.272	0.040
290	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.272	0.060

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
300	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.271	0.090
	Conv-Till	0.27	0.29	0.25	0.29	0.47	0.66	0.85	0.91	0.91	0.57	0.37	0.30	0.274	0.060
	Cons-Till	0.32	0.30	0.30	0.31	0.46	0.66	0.88	0.91	0.91	0.61	0.42	0.36	0.274	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.283	0.080
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.274	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.283	0.080
310	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.271	0.060
	Conv-Till	0.36	0.38	0.27	0.31	0.51	0.67	0.85	0.91	0.91	0.66	0.51	0.39	0.274	0.050
	Cons-Till	0.45	0.42	0.42	0.42	0.52	0.67	0.88	0.91	0.91	0.73	0.57	0.49	0.274	0.050
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.283	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.274	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.283	0.070
330	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.336	0.100
	Conv-Till	0.39	0.37	0.20	0.23	0.33	0.40	0.73	0.92	0.92	0.64	0.50	0.42	0.340	0.070
	Cons-Till	0.47	0.44	0.42	0.41	0.46	0.51	0.72	0.91	0.91	0.74	0.57	0.51	0.340	0.070
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.338	0.080
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.340	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.338	0.080
340	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.327	0.090
	Conv-Till	0.40	0.37	0.16	0.19	0.28	0.42	0.73	0.92	0.92	0.67	0.51	0.43	0.343	0.060
	Cons-Till	0.48	0.45	0.43	0.41	0.46	0.53	0.73	0.92	0.92	0.75	0.60	0.52	0.343	0.060
	Pasture	0.90	0.90	0.90	0.90	0.92	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.330	0.080
	Urban	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.343	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.330	0.080

APPENDIX E.11 (continued) COVER, KRER, AND SLSUR PARAMETERS CALCULATED FROM 1982 MRI REPORT
BELOW FALL LINE

SEGMENT	LAND USE	J	F	M	A	M	J	J	A	S	O	M	D	KRER	SLSUR
Anacostia	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.332	0.080
	Conv-Till	0.40	0.39	0.17	0.21	0.46	0.68	0.86	0.92	0.92	0.75	0.61	0.43	0.347	0.070
	Cons-Till	0.49	0.45	0.42	0.40	0.49	0.67	0.88	0.91	0.91	0.82	0.63	0.53	0.347	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.333	0.080
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.347	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.333	0.080
Baltimore Harbor	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.337	0.150
	Conv-Till	0.43	0.44	0.26	0.31	0.54	0.68	0.87	0.92	0.92	0.71	0.62	0.46	0.345	0.080
	Cons-Till	0.52	0.49	0.47	0.45	0.55	0.68	0.88	0.92	0.92	0.80	0.66	0.56	0.345	0.080
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.357	0.110
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.345	0.080
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.357	0.110
Bohemia	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.341	0.060
	Conv-Till	0.41	0.41	0.20	0.24	0.49	0.68	0.86	0.92	0.92	0.73	0.61	0.44	0.352	0.040
	Cons-Till	0.49	0.46	0.43	0.41	0.51	0.67	0.88	0.91	0.91	0.80	0.64	0.54	0.352	0.040
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.362	0.050
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.352	0.040
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.362	0.050
Chester	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.302	0.030
	Conv-Till	0.39	0.37	0.18	0.21	0.29	0.37	0.72	0.91	0.91	0.69	0.50	0.42	0.320	0.020
	Cons-Till	0.46	0.43	0.41	0.39	0.43	0.48	0.71	0.91	0.91	0.75	0.57	0.50	0.320	0.020
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.316	0.050
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.320	0.020
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.316	0.050
Chickahominy	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.282	0.070
	Conv-Till	0.34	0.36	0.30	0.33	0.47	0.65	0.84	0.90	0.90	0.67	0.45	0.36	0.281	0.040
	Cons-Till	0.38	0.35	0.33	0.33	0.41	0.64	0.87	0.89	0.89	0.76	0.49	0.42	0.281	0.040
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.271	0.050
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.281	0.040
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.271	0.050
Choptank	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.298	0.010
	Conv-Till	0.38	0.41	0.33	0.37	0.51	0.65	0.84	0.90	0.90	0.68	0.50	0.40	0.298	0.010
	Cons-Till	0.43	0.40	0.39	0.39	0.45	0.65	0.87	0.90	0.90	0.78	0.55	0.47	0.298	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.292	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.298	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.292	0.010

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	M	D		
Coastal 1	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.331	0.030
	Conv-Till	0.37	0.38	0.26	0.29	0.46	0.66	0.85	0.90	0.90	0.72	0.52	0.39	0.334	0.020
	Cons-Till	0.43	0.39	0.37	0.36	0.43	0.65	0.87	0.90	0.90	0.80	0.55	0.47	0.334	0.020
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.353	0.040
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.334	0.020
Coastal 11	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.353	0.040
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.311	0.130
	Conv-Till	0.37	0.34	0.14	0.16	0.26	0.43	0.73	0.92	0.92	0.62	0.48	0.40	0.317	0.060
	Cons-Till	0.45	0.42	0.40	0.38	0.43	0.53	0.73	0.92	0.92	0.67	0.55	0.48	0.317	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.346	0.080
Coastal 4	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.317	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.346	0.080
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.233	0.010
	Conv-Till	0.32	0.33	0.26	0.28	0.40	0.64	0.83	0.89	0.89	0.72	0.43	0.34	0.247	0.010
	Cons-Till	0.41	0.38	0.36	0.36	0.42	0.64	0.87	0.89	0.89	0.72	0.43	0.34	0.247	0.010
Coastal 5	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.280	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.247	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.280	0.010
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.311	0.080
	Conv-Till	0.39	0.37	0.12	0.15	0.41	0.67	0.86	0.91	0.91	0.79	0.61	0.42	0.323	0.050
Coastal 6	Cons-Till	0.48	0.44	0.44	0.38	0.46	0.67	0.88	0.91	0.91	0.84	0.63	0.53	0.323	0.050
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.273	0.040
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.323	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.273	0.040
	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.336	0.140
Coastal 8	Conv-Till	0.41	0.42	0.22	0.27	0.52	0.68	0.87	0.92	0.92	0.70	0.61	0.44	0.338	0.060
	Cons-Till	0.50	0.47	0.45	0.43	0.54	0.68	0.88	0.92	0.92	0.78	0.65	0.54	0.338	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.357	0.090
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.338	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.357	0.090
Coastal 8	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.243	0.070
	Conv-Till	0.31	0.32	0.25	0.26	0.39	0.63	0.83	0.89	0.89	0.72	0.42	0.33	0.264	0.070
	Cons-Till	0.40	0.37	0.35	0.35	0.41	0.64	0.87	0.89	0.89	0.80	0.51	0.44	0.264	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.234	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.264	0.070
Coastal 8	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.234	0.070

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
Coastal 9	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.248	0.030
	Conv-Till	0.26	0.24	0.19	0.18	0.30	0.63	0.82	0.89	0.89	0.75	0.36	0.28	0.301	0.010
	Cons-Till	0.35	0.31	0.28	0.28	0.34	0.63	0.87	0.89	0.89	0.80	0.46	0.39	0.301	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.333	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.301	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.333	0.010
Elizabeth	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.219	0.010
	Conv-Till	0.28	0.32	0.39	0.40	0.43	0.60	0.80	0.87	0.87	0.64	0.31	0.29	0.259	0.010
	Cons-Till	0.32	0.30	0.31	0.34	0.37	0.60	0.87	0.87	0.87	0.73	0.39	0.35	0.259	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.217	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.259	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.217	0.010
Great Wicomico	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.245	0.110
	Conv-Till	0.34	0.36	0.33	0.35	0.46	0.63	0.83	0.89	0.89	0.69	0.43	0.35	0.270	0.030
	Cons-Till	0.42	0.39	0.39	0.40	0.45	0.64	0.87	0.89	0.89	0.78	0.52	0.45	0.270	0.030
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.254	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.270	0.030
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.254	0.070
Gunpowder	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.320	0.150
	Conv-Till	0.42	0.44	0.26	0.31	0.55	0.68	0.87	0.92	0.92	0.69	0.61	0.45	0.319	0.070
	Cons-Till	0.51	0.48	0.46	0.45	0.55	0.68	0.88	0.92	0.92	0.79	0.65	0.55	0.319	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.339	0.090
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.319	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.339	0.090
James	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.286	0.050
	Conv-Till	0.30	0.29	0.18	0.18	0.35	0.64	0.83	0.90	0.90	0.75	0.44	0.33	0.259	0.020
	Cons-Till	0.40	0.36	0.33	0.32	0.40	0.64	0.87	0.90	0.90	0.80	0.52	0.44	0.259	0.020
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.297	0.030
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.259	0.020
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.297	0.030
Nansenord	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.248	0.020
	Conv-Till	0.39	0.37	0.14	0.17	0.41	0.67	0.85	0.91	0.91	0.80	0.60	0.42	0.261	0.010
	Cons-Till	0.51	0.47	0.44	0.41	0.50	0.67	0.88	0.91	0.91	0.85	0.67	0.56	0.261	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.249	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.261	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.249	0.010

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
Nanticoke	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.267	0.010
	Conv-Till	0.42	0.45	0.33	0.38	0.56	0.67	0.86	0.91	0.91	0.69	0.57	0.44	0.257	0.010
	Cons-Till	0.49	0.46	0.45	0.45	0.52	0.66	0.88	0.91	0.91	0.80	0.62	0.53	0.257	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.281	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.257	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.281	0.010
Occoquan	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.289	0.110
	Conv-Till	0.34	0.35	0.22	0.27	0.53	0.69	0.87	0.92	0.92	0.58	0.49	0.37	0.320	0.050
	Cons-Till	0.40	0.38	0.38	0.37	0.55	0.69	0.88	0.92	0.92	0.62	0.52	0.44	0.320	0.050
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.306	0.070
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.320	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.306	0.070
Patapsco	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.328	0.120
	Conv-Till	0.41	0.43	0.28	0.34	0.56	0.68	0.87	0.92	0.92	0.67	0.58	0.44	0.322	0.070
	Cons-Till	0.48	0.46	0.45	0.44	0.54	0.68	0.88	0.92	0.92	0.76	0.62	0.52	0.322	0.070
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.334	0.090
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.322	0.070
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.334	0.090
Patuxent	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.322	0.070
	Conv-Till	0.39	0.38	0.18	0.21	0.44	0.67	0.85	0.91	0.91	0.77	0.59	0.42	0.342	0.040
	Cons-Till	0.47	0.43	0.40	0.38	0.46	0.66	0.88	0.91	0.91	0.83	0.62	0.52	0.342	0.040
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.320	0.050
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.342	0.040
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.320	0.050
Pocomoke	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.261	0.010
	Conv-Till	0.33	0.32	0.21	0.23	0.39	0.64	0.84	0.90	0.90	0.75	0.47	0.35	0.256	0.010
	Cons-Till	0.39	0.35	0.32	0.31	0.37	0.64	0.87	0.89	0.89	0.81	0.51	0.43	0.256	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.292	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.256	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.292	0.010
Potomac	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.305	0.090
	Conv-Till	0.35	0.37	0.28	0.30	0.45	0.65	0.84	0.90	0.90	0.71	0.48	0.38	0.321	0.050
	Cons-Till	0.43	0.39	0.38	0.38	0.44	0.65	0.87	0.90	0.90	0.79	0.55	0.47	0.321	0.050
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.318	0.080
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.321	0.050
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.85	0.318	0.080

APPENDIX E.11 (continued)

SEGMENT	LAND USE	MONTHLY COVER												KRER	SLSUR
		J	F	M	A	M	J	J	A	S	O	N	D		
Rappa-hannock	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.260	0.090
	Conv-Till	0.32	0.34	0.30	0.32	0.43	0.63	0.83	0.89	0.89	0.70	0.43	0.34	0.275	0.030
	Cons-Till	0.41	0.38	0.37	0.38	0.43	0.64	0.87	0.89	0.89	0.78	0.51	0.45	0.275	0.030
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.303	0.060
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.275	0.030
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.303	0.060
Severn	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.301	0.080
	Conv-Till	0.42	0.45	0.33	0.38	0.57	0.67	0.86	0.91	0.91	0.68	0.58	0.45	0.328	0.060
	Cons-Till	0.50	0.47	0.46	0.46	0.54	0.67	0.88	0.91	0.91	0.79	0.63	0.54	0.328	0.060
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.256	0.040
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.328	0.060
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.256	0.040
Wiconico	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.266	0.010
	Conv-Till	0.30	0.30	0.21	0.21	0.35	0.64	0.83	0.89	0.89	0.75	0.43	0.33	0.260	0.010
	Cons-Till	0.35	0.31	0.28	0.28	0.34	0.63	0.87	0.89	0.89	0.81	0.47	0.40	0.260	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.292	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.260	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.292	0.010
Wye	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.323	0.020
	Conv-Till	0.38	0.39	0.25	0.29	0.48	0.66	0.85	0.91	0.91	0.72	0.54	0.41	0.332	0.010
	Cons-Till	0.45	0.41	0.39	0.38	0.46	0.65	0.88	0.90	0.90	0.81	0.58	0.49	0.332	0.010
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.298	0.010
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.332	0.010
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.298	0.010
York	Forest	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.255	0.090
	Conv-Till	0.31	0.32	0.26	0.27	0.40	0.64	0.83	0.89	0.89	0.71	0.42	0.33	0.262	0.030
	Cons-Till	0.39	0.36	0.35	0.35	0.42	0.64	0.87	0.89	0.89	0.78	0.51	0.44	0.262	0.030
	Pasture	0.90	0.90	0.90	0.91	0.93	0.93	0.93	0.93	0.93	0.91	0.90	0.90	0.255	0.040
	Urban	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.262	0.030
	Hay	0.85	0.85	0.88	0.93	0.93	0.93	0.93	0.65	0.65	0.73	0.85	0.85	0.255	0.040

APPENDIX E.12 FOREST LAND AREA IN ACRES FOR 1950, 1978, AND 1985.

STATE	COUNTY	1950	1978	1985
DC	DIS. OF COLUMBIA	NA	3200	3100
DE	KENT	NA	50943	50535
DE	NEW CASTLE	NA	6830	6697
DE	SUSSEX	NA	130148	130024
DE	TOTAL	NA	187921	187256
MD	ALLEGANY	198000	183286	181186
MD	ANNE ARUNDEL	174000	126010	112756
MD	BALTIMORE	174000	147560	122661
MD	CALVERT	92000	87967	73367
MD	CAROLINE	85000	77920	75125
MD	CARROLL	78000	81267	84967
MD	CECIL	84280	85703	85646
MD	CHARLES	215000	193000	191011
MD	DORCHESTER	164000	257160	257410
MD	FREDERICK	142000	137140	135140
MD	GARRETT	126900	107940	107940
MD	HARFORD	103000	138673	146289
MD	HOWARD	51000	52396	50240
MD	KENT	43000	53152	52637
MD	MONTGOMERY	74000	95081	98081
MD	PRINCE GEORGES	188000	134686	115875
MD	QUEEN ANNES	78000	66127	66990
MD	SOMERSET	92000	172062	171082
MD	ST MARYS	156000	126425	132125
MD	TALBOT	47000	45404	42016
MD	WASHINGTON	106000	98280	96680
MD	WICOMICO	129000	121780	125924
MD	WORCESTER	97800	134991	130444
MD	TOTAL	2697980	2724010	2655592

APPENDIX E.12 (continued).

STATE	COUNTY	1950	1978	1985
NY	ALLEGANY	NA	34563	35219
NY	BROOME	NA	246431	252164
NY	CHEMUNG	NA	144728	147659
NY	CHENANGO	NA	339279	357225
NY	CORTLAND	NA	147191	150915
NY	DELAWARE	NA	120490	123192
NY	HERKIMER	NA	24838	25094
NY	LIVINGSTON	NA	3363	3475
NY	MADISON	NA	95157	96612
NY	ONEIDA	NA	16528	16492
NY	ONONDAGA	NA	12993	13188
NY	ONTARIO	NA	571	599
NY	OTSEGO	NA	359893	374503
NY	SCHOHARIE	NA	16429	17133
NY	SCHUYLER	NA	45703	45591
NY	STEUBEN	NA	424553	438761
NY	TIOGA	NA	193600	196600
NY	TOMPKINS	NA	35501	36163
NY	YATES	NA	3276	3627
NY	TOTAL	NA	2265087	2334212
PA	ADAMS	146200	141618	98930
PA	BEDFORD	388700	438536	428541
PA	BERKS	17550	23328	20497
PA	BLAIR	192300	246514	239155
PA	BRADFORD	312800	374950	358022
PA	CAMBRIA	103600	133671	120749
PA	CAMERON	243600	248900	244574
PA	CENTRE	492400	553291	546188
PA	CHESTER	NA	20642	16082
PA	CLEARFIELD	486540	538991	530598
PA	CLINTON	509000	521464	519193
PA	COLUMBIA	139800	168388	155915
PA	CUMBERLAND	219400	139236	127839
PA	DAUPHIN	154600	173985	163684
PA	ELK	159635	161198	161332
PA	FRANKLIN	184700	238978	210050
PA	FULTON	178200	195412	192797
PA	HUNTINGDON	404700	424033	410462
PA	INDIANA	NA	29468	28055
PA	JUNIATA	146300	163149	159438
PA	LACKAWANNA	158865	163729	154301
PA	LANCASTER	87115	125863	82544
PA	LEBANON	60570	80691	71195
PA	LUZERNE	309760	375819	357360
PA	LYCOMING	561400	620652	614449
PA	MCKEAN	NA	12671	12289
PA	MIFFLIN	172700	186228	183723
PA	MONTOUR	28800	29952	25957

APPENDIX E.12 (continued).

STATE	COUNTY	1950	1978	1985
PA	NORTHUMBERLAND	93400	136748	123538
PA	PERRY	213500	252117	248106
PA	POTTER	335460	365962	363787
PA	SCHUYLKILL	156050	193347	185002
PA	SNYDER	126200	120156	116306
PA	SOMERSET	74900	60268	58200
PA	SULLIVAN	239300	261992	266255
PA	SUSQUEHANNA	264800	336314	318518
PA	TIOGA	427100	491274	468345
PA	UNION	109000	129835	123937
PA	WAYNE	NA	25943	25351
PA	WYOMING	146500	198809	191369
PA	YORK	137100	189888	159426
PA	TOTAL	8182545	9294010	8882059
VA	ACCOMACK	64554	133851	128590
VA	ALBEMARLE	295400	330274	332827
VA	ALLEGHANY	250500	263730	258846
VA	AMELIA	164600	175098	168301
VA	AMHERST	221000	213475	203026
VA	APPOMATTOX	109130	111542	109372
VA	ARLINGTON	0	0	0
VA	AUGUSTA	352400	357156	336715
VA	BATH	302800	312812	308046
VA	BEDFORD	61860	46241	43885
VA	BOTETOURT	208362	221379	211371
VA	BUCKINGHAM	295500	294545	288310
VA	CAMPBELL	44060	40328	38485
VA	CAROLINE	328560	283014	285022
VA	CHARLES CITY	87300	98071	94422
VA	CHESAPEAKE CITY	NA	42188	34695
VA	CHESTERFIELD	227400	217538	200960
VA	CLARKE	35200	40271	38046
VA	CRAIG	146370	150573	145514
VA	CULPEPER	115800	136484	127250
VA	CUMBERLAND	134700	133011	122179
VA	DINWIDDIE	69780	56433	56632
VA	ESSEX	211000	119678	110068
VA	FAIRFAX	145300	122252	91202
VA	FAUQUIER	166500	205617	189804
VA	FLUVANNA	120700	139853	138634
VA	FREDERICK	145800	154412	149293
VA	GILES	NA	5471	5692
VA	GLOUCESTER	96100	112864	100084
VA	GOOCHLAND	132300	143961	128893
VA	GREENE	62200	70569	58939
VA	HANOVER	209600	194896	191885
VA	HENRICO	79400	101142	96624
VA	HIGHLAND	196400	207571	208088

APPENDIX E.12 (continued).

STATE	COUNTY	1950	1978	1985
VA	ISLE OF WIGHT	71640	NA	58450
VA	JAMES CITY	67600	67707	72387
VA	KING AND QUEEN	156400	173179	163985
VA	KING GEORGE	74300	81235	77163
VA	KING WILLIAM	131300	129043	127788
VA	LANCASTER	56400	56462	55028
VA	LOUDOUN	98400	128727	108836
VA	LOUISA	228300	251215	237601
VA	MADISON	119700	117561	115311
VA	MATHEWS	29500	41097	43764
VA	MIDDLESEX	107600	60176	60087
VA	MONTGOMERY	NA	7688	6669
VA	NELSON	221000	243021	227693
VA	NEW KENT	109200	116222	111888
VA	NORTHAMPTON	22860	50867	53141
VA	NORTHUMBERLAND	75000	76623	72271
VA	NOTTOWAY	71450	72956	67268
VA	ORANGE	143100	138438	135889
VA	PAGE	128900	131691	131570
VA	POWHATAN	131400	132165	117411
VA	PRINCE EDWARD	166500	155340	147504
VA	PRINCE GEORGE	NA	132061	130505
VA	PRINCE WILLIAM	135800	105975	104842
VA	RAPPAHANNOCK	96500	111053	109308
VA	RICHMOND	76800	90839	85538
VA	ROANOKE	10890	13446	11758
VA	ROCKBRIDGE	252600	266468	259252
VA	ROCKINGHAM	307400	353054	332212
VA	SHENANDOAH	185800	220781	213572
VA	SPOTSYLVANIA	193500	201372	194310
VA	STAFFORD	131500	136711	127823
VA	SUFFOLK	98340	64029	53130
VA	SURRY	40560	58716	58071
VA	VIRGINIA BEACH	NA	28624	26104
VA	WARREN	79420	90518	83431
VA	WESTMORELAND	90200	93754	90257
VA	YORK	76500	38425	31980
VA	TOTAL	9066936	9473539	9105497
WV	BERKELEY	NA	104835	97664
WV	GRANT	NA	229065	222342
WV	HAMPSHIRE	NA	302580	318134
WV	HARDY	NA	290827	290358
WV	JEFFERSON	NA	31120	25937
WV	MINERAL	NA	156468	164957
WV	MONROE	NA	28089	28089
WV	MORGAN	NA	115796	116018
WV	PENDLETON	NA	338243	349230
WV	TOTAL	NA	1597023	1612729

APPENDIX E.12 (continued).

TOTAL STATE FOREST AREA (IN ACRES)

STATE	1950	1978	1985
DE	NA	187921	187256
MD	2697980	2724010	2655592
NY	NA	2265087	2334212
PA	8182545	9294010	8882059
VA	9066936	9473539	9105497
WV	NA	1597023	1612729

