

APPENDIX B. Lookup Tables for AGNPS and WATFLOOD Interfaces

Section B.1 Soil Lookup Table (Map Codes and Data)

Table B1. Soil Type Map Codes*

<i>Map</i>	<i>Name</i>	<i>Lookup: SCS</i>
B.L.	BOTTOM LAND	sand
Bl	BONDHEAD	loam
Brsl	BRIGHTON	sandy loam
Brsl-st	BRIGHTON	sandy loam
Brsl/g	BRIGHTON	sandy loam
Bs	BONDHEAD	sandy loam
Cac	CASHEL	clay
Dal	DARLINGTON	loam
Jc	JEDDO	clay loam
Kis	KING	silt loam
Ll	LYONS	loam
M	MUCK	sand
Ma	MARSH	sand
Ml	MILLIKEN	loam
Moc	MONOGHAN	clay loam
Pec	PEEL	clay loam
Ps	PONTYPOOL	sand
Psl	PONTYPOOL	sandy loam
Scf	SMITHFIELD	clay loam
Shc	SCHOMBERG	clay loam
Tsl	TECUMSETH	sandy loam
Tsl-st	TECUMSETH	sandy loam
Wol	WOBURN	loam
Wos	WOBURN	sandy loam

*Examples from arbitrary soil type layer.

Table B2. Soil Type Data Table

<i>SCS Code</i>	<i>Soil Class</i>	<i>HSC</i>	<i>SText</i>	<i>K</i>	<i>D₅₀</i>	<i>SpG</i>
s	sand	A	1	0.01	0.110	2.455
ls	loamy sand	A	1	0.05	0.130	2.293
sl	sandy loam	B	1	0.14	0.105	2.111
l	loam	B	2	0.31	0.075	2.009
sil	silt loam	C	2	0.37	0.035	2.099
si	silt	C	2	0.42	0.015	1.920
scl	sandy clay loam	B	1	0.22	0.330	1.949
cl	clay loam	C	3	0.29	0.310	1.857
sicl	silty clay loam	C	2	0.31	0.038	1.977
sc	sandy clay	B	1	0.15	0.550	1.849
sic	silty clay	C	3	0.24	0.100	1.920
c	clay	D	3	0.20	0.610	1.840

HSC-Soil Group: SText-Soil Texture: K-K factor: D₅₀ -Median Particle Size: SpG - Specific Weight

Section B.2 Landuse Lookup Table (Map Codes and Data)

Table B3. Landuse Map Codes*

<i>Map Description</i>	<i>MCode</i>	<i>Lcode - Description</i>	
Water	W	NUWa	Water
Agricultural land idle <10yrs	A1	NUHw	Heavy weeds
Agricultural land idle >10yrs	A2	NUWol	Woods (light)
Built up (Urban)	B	UrRe	Urban residential
Corn or beans system	C	NURc	Row crops
Extraction, sand & gravel pits	E1	UrGd	Gravel and dirt
Extraction, topsoil removal	E2	UrTs	Topsoil removal
Grazing systems	G	NUMe	Meadow
Hay system	H	NUFa	Farmsteads
Pasture system	HG	NUGr	Grass and pasture
Field Vegetables	KF	NULe	Legumes
Market Gardens	KM	NUFa	Farmsteads
Mixed System	M	NULe	Legumes
Grain System	MG	NUSg	Small grains
Orchard	OR	NUFr	Fruits
Continuous row crops	P	NURc	Row crops
Recreation	R	UrGr	Short grass
Sod Farms	T	NUGr	Grass and pasture
Swamp, marsh - wetland	X	NUWe	Wetland
Woodland	Z	NUWod	Woods (dense)
Pastured Woodland	ZP	NUWol	Woods (light)
Reforestation	ZR	UrDt	Dense turf

*Examples from arbitrary landuse layer.

Table B4. Landuse Data Table

<i>Land</i>		<i>Curve Numbers (SGroups)</i>							
<i>Code</i>	<i>LandUse</i>	<i>Man n</i>	<i>SrfCond</i>	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>COD_Fac</i>	<i>C_Fac</i>
<i>Urban zones</i>									
UrRe	Urban residential	0.011	0.00	90	90	90	90	10	0
UrCo	Urban comercial	0.012	0.00	95	95	95	95	10	0
UrSp	Street pavement	0.013	0.00	98	98	98	98	10	0
UrAs	Asphalt	0.014	0.00	100	100	100	100	10	0
UrGd	Gravel and dirt	0.025	0.01	75	83	88	90	10	0.1
UrTs	Topsoil removal	0.030	0.05	70	80	85	87	10	0.02
UrLt	Light turf	0.200	0.15	47	67	81	88	30	0.04
UrDt	Dense turf	0.350	0.30	25	59	75	83	50	0.08
UrFo	Forest litter	0.400	0.60	36	60	73	79	65	0.01
UrGr	Short grass	0.032	0.15	68	79	86	89	30	0.05
UrHg	High grass	0.040	0.25	49	69	79	84	50	0.07
<i>Rural zones</i>									
NUHw	Heavy weeds	0.060	0.50	39	61	74	80	65	0.09
NUFf	Fallow field	0.100	0.22	77	86	91	94	115	0.1
NULe	Legumes	0.200	0.30	58	72	81	85	60	0.3
NUFr	Fruits	0.300	0.40	40	62	76	81	40	0.2
NUMe	Meadow	0.400	0.50	30	58	71	78	20	0.1
NUFa	Farmsteads	0.080	0.01	59	74	82	86	80	0.25
NUGr	Grass and pasture	0.040	0.22	49	69	79	84	60	0.05
NUSg	Small grains	0.250	0.29	65	75	83	87	80	0.35
NURc	Row crops	0.100	0.15	67	78	85	89	170	0.5
NUWol	Woods (light)	0.400	0.25	36	60	73	79	45	0.01
NUWod	Woods (dense)	0.800	0.35	25	55	70	77	65	0.001
NUWa	Water	0.990	0.00	100	100	100	100	0	0
NUWe	Wetland	0.990	0.00	85	85	85	85	25	0

SGroups-Soil Group; *Man n*-Manning's *n* ; *COD_Fac*-COD Factor ; *C_Fac*-Cover Factor; *SrfCond*-Surface Condition

Table B5. Land Classes Schemes

<i>ClassNo</i>	<i>ClassType</i>	<i>Typical Land Code</i>	<i>GC</i>	<i>CF</i>
Class 6	Impervious	UrRe	0.1	0.9
	Bareground	UrGd	0.1	0.9
	Forests	NUWod	0.8	0.4
	Crops_LowVeg	NUSg	0.5	0.6
	Wetlands	NUWe	0.6	0.5
	Water	NUWa	0	0
Class 10	Impervious	UrRe	0.1	0.9
	Bareground_Light	NUFf	0.1	0.9
	Bareground_Dark	UrTs	0.2	0.85
	Forests_Light	NUWol	0.8	0.35
	Forests_Dense	NUWod	0.9	0.3
	Grass	NUGr	0.5	0.6
	Crops_Low	NUSg	0.6	0.5
	Crops_High	NURc	0.7	0.4
	Wetlands	NUWe	0.6	0.5
	Water	NUWa	0	0

GC-Ground Cover Density ; *CF*-Canopy Cover Factor (Source Wischmeier and Smith, 1978)