

## APPENDIX B WORKING TABLES FOR LAND CAPABILITY CLASSES

### B1 Farm Dams

MAP UNITS	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg	Qbh	Qbr	Ssa	Ssb	Ssc	Ssd	Ssf	Ssg	Ssh
slope	2	5	5	4	2	1	2	2	1	2	5	5	4	1	2	5
linear shrinkage	2	2	3	3	3	2	3	4	2	2	1	2	2	2	2	2
suitability of subsoil	5	4	5	5	4	4	5	4	5	4	5	4	4	4	4	4
depth to seasonal watertable	1	1	1	2	2	3	3	4	3	1	1	1	3	3	3	4
depth to hard rock	5	4	4	4	3	3	4	3	5	4	5	4	4	3	3	3
permeability	5	5	4	4	4	4	3	3	4	4	5	4	4	4	3	3
dispersibility of subsoil	4	2	2	2	-	3	5	3	1	3	2	3	3	3	3	1
susceptibility to slope failure	1	4	3	3	1	2	1	1	2	1	3	3	3	1	1	4

B.1 Farm Dams

MAP UNITS	Dg1a	Dg1b	Dg1c	Dg1d	Dg1h	Dg2a	Dg2b	Dg2c	Dg2d	Dg2f	Dg2h	Dg2x	Dra	Drb
slope	2	5	5	4	4	2	5	5	4	3	5	2	2	5
linear shrinkage	2	3	2	2	2	1	1	1	1	1	2	1	3	3
suitability of subsoil	5	4	4	4	5	5	5	4	5	4	3	3	4	4
depth to seasonal watertable	1	1	1	3	4	1	1	1	1	3	4	1	1	1
depth to hard rock	5	3	4	3	3	5	5	3	4	4	3	3	3	3
permeability	3	2	4	4	3	5	5	3	4	3	2	4	5	5
dispersibility of subsoil	4	4	-	-	5	-	-	3	2	-	-	4	4	4
susceptibility to slope failure	1	5	3	3	3	1	3	4	3	1	3	1	2	5

## B.1 Farm Dams

MAP UNITS	Drc	Drd	Drh	Qva	Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Dsa	Dsb	Dsc	Dsd	Dsf	Qff	Qa1
slope	5	4	4	2	5	5	4	2	3	1	2	2	5	5	4	3	1	2
linear shrinkage	3	3	2	2	3	1	2	-	1	-	4	2	2	2	2	2	3	2
suitability of subsoil	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	3	3
depth to seasonal watertable	1	1	3	1	1	1	2	1	3	3	4	1	1	1	3	3	5	3
depth to hard rock	3	3	3	5	4	4	4	5	4	4	3	5	4	4	4	4	1	2
permeability	4	4	3	5	5	4	4	4	4	3	3	5	5	4	4	4	2	3
dispersibility of subsoil	4	4	-	-	-	5	-	2	-	2	3	-	-	-	-	-	5	4
susceptibility to slope failure	4	3	3	1	4	4	3	1	1	1	1	1	4	3	3	1	1	2

**B2 Effluent Disposal**

MAP UNITS	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg	Qbh	Qbr	Ssa	Ssb	Ssc	Ssd	Ssf	Ssg	Ssh
slope	1	5	4	3	1	2	1	1	2	1	5	4	3	2	1	4
flooding risk	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	5
drainage	2	3	2	2	2	2	3	3	3	2	1	2	3	3	3	3
depth to seasonal watertable	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1
depth to impermeable layer	4	1	1	1	2	1	2	1	5	1	5	1	1	1	1	1
no. of months/year av. rainfall >Ksat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
permeability	1	1	1	1	1	2	3	3	2	1	1	2	2	2	3	4

**B2 Effluent Disposal**

MAP UNITS	Dg1a	Dg1b	Dg1c	Dg1d	Dg1h	Dg2a	Dg2b	Dg2c	Dg2d	Dg2f	Dg2h	Dg2x	Dra	Drb	Drc	Drd	Drh
slope	1	5	4	3	4	1	5	4	3	2	4	1	1	5	4	3	4
flooding risk	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5
drainage	3	2	2	3	4	1	1	3	2	3	5	3	2	2	2	2	3
depth to seasonal watertable	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
depth to impermeable layer	3	1	2	2	1	4	4	1	3	2	1	1	1	1	1	1	1
no. of months/year av. rainfall >Ksat	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
permeability	3	4	2	2	4	1	1	2	2	3	5	1	1	1	2	2	4

**B2 Effluent Disposal**

MAP UNITS	Qva	Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Dsa	Dsb	Dsc	Dsd	Dsf	Qff	Qa1
slope	1	5	4	3	1	2	1	1	1	5	4	3	2	2	1
flooding risk	1	1	1	1	1	1	1	5	1	1	1	1	1	2	3
drainage	2	2	2	3	2	3	2	3	2	2	2	3	3	4	3
depth to seasonal watertable	1	1	1	1	1	1	1	3	1	1	1	1	1	4	1
depth to impermeable layer	4	3	1	2	4	2	1	1	3	3	2	2	1	1	1
no. of months/year av. rainfall >Ksat	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1
permeability	1	1	2	2	1	2	3	3	1	1	2	2	2	5	4

**B3 Building Foundations, i) slab ii) stumps**

MAP UNITS	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg	Qbh	Qbr	Ssa	Ssb	Ssc	Ssd	Ssf	Ssg	Ssh
slope i);ii)	i)1 ii)1	i)5 ii)4	i)4 ii)3	i)4 ii)3	i)1 ii)1	i)3 ii)2	i)2 ii)1	i)2 ii)1	i)2 ii)1	i)1 ii)1	i)5 ii)5	i)4 ii)3	i)4 ii)3	i)3 ii)2	i)2 ii)1	i)4 ii)3
drainage	2	3	2	2	2	2	3	3	3	2	1	2	3	3	3	3
depth to seasonal watertable	1	1	1	2	2	2	2	2	2	1	1	1	2	2	2	2
proportion of stones and boulders	5	4	2	2	2	3	5	2	5	4	4	3	4	3	3	2
depth to hard rock	3	1	1	1	1	1	2	1	4	1	4	1	1	1	1	1
susceptibility to slope failure	1	4	3	3	1	2	1	1	2	1	3	3	3	1	1	4
linear shrinkage i);ii)	i)1 ii)2	i)1 ii)2	i)2 ii)3	i)2 ii)3	-	i)1 ii)2	i)2 ii)3	i)3 ii)4	i)1 ii)2	i)1 ii)2	i)1 ii)1	i)1 ii)2	i)1 ii)2	i)1 ii)2	i)1 ii)2	i)1 ii)2
flooding risk	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	5

B3 Building Foundations, i) slab ii) stumps

MAP UNITS	Dg1a	Dg1b	Dg1c	Dg1d	Dg1h	Dg2a	Dg2b	Dg2c	Dg2d	Dg2f	Dg2h	Dg2x	Dra	Drb	Drc	Drd	Drh
slope i);ii)	i)2 ii)1	i)5 ii)4	i)4 ii)3	i)4 ii)3	i)4 ii)3	i)2 ii)1	i)5 ii)4	i)4 ii)3	i)4 ii)3	i)3 ii)2	i)4 ii)3	i)2 ii)1	i)2 ii)1	i)5 ii)4	i)4 ii)3	i)4 ii)3	i)4 ii)3
drainage	3	2	2	3	4	1	1	3	2	3	5	3	2	2	2	2	3
depth to seasonal watertable	1	1	1	2	2	1	1	1	2	2	1	1	1	1	1	1	1
proportion of stones and boulders	2	2	2	2	4	4	4	4	4	4	2	4	2	2	2	2	2
depth to hard rock	2	1	1	1	1	4	4	1	2	2	1	1	1	1	1	1	1
susceptibility to slope failure	1	5	3	3	3	1	3	4	3	1	3	1	2	5	4	3	3
linear shrinkage i);ii)	i)1 ii)2	i)2 ii)3	-	-	i)1 ii)2	-	-	i)1 ii)1	i)1 ii)1	-	-	i)1 ii)1	i)2 ii)3	i)2 ii)3	i)2 ii)3	i)2 ii)3	-
flooding risk	1	1	1	1	5	1	1	1	1	1	5	1	1	1	1	1	5



**B3 Building Foundations, i) slab ii) stumps**

MAP UNITS	Qva	Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Dsa	Dsb	Dsc	Dsd	Dsf	Qff	Qa1
slope i);ii)	i)2 ii)1	5 ii)4	4 ii)3	i)4 ii)3	i)2 ii)1	i)3 ii)2	i)2 ii)1	i)2 ii)1	i)2 ii)1	i)5 ii)4	i)4 ii)3	i)4 ii)3	i)3 ii)2	i)2 ii)1	i)2 ii)1
drainage	2	2	2	3	2	3	2	3	2	2	2	3	3	4	3
depth to seasonal watertable	2	1	1	2	1	2	2	2	1	1	1	2	2	4	2
proportion of stones and boulders	3	3	2	2	2	2	2	2	3	3	3	2	2	4	1
depth to hard rock	2	2	1	2	3	2	1	1	2	2	2	2	2	1	1
susceptibility to slope failure	1	4	4	3	1	1	1	1	1	4	3	3	1	1	2
linear shrinkage i);ii)	-	-	i)1 ii)1	-	-	-	-	i)3 ii)4	-	-	-	-	-	i)2 ii)3	i)1 ii)2
flooding risk	1	1	1	1	1	1	-	5	1	1	1	1	1	2	3

## B.4 Agriculture

MAP UNITS	Qba	Qbb	Qbc	Qbd	Qbe	Qbf	Qbg	Qbh	Qbr	Ssa	Ssb	Ssc	Ssd	Ssf	Ssg	Ssh
climate	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
topography	1	5	4	3	1	2	1	1	2	1	5	4	3	2	1	4
topsoil conditions A1,A2	1	1	2	2	2	1	3	1	1	2	2	3	2	3	3	2
depth of topsoil	2	2	2	2	2	2	1	4	3	2	3	2	2	2	2	2
depth to hard rock/pan	4	2	2	2	3	1	3	1	5	2	5	2	3	2	2	1
depth to seasonal watertable	1	1	1	2	2	2	2	3	2	2	1	1	3	2	2	2
available water capacity	5	3	2	2	3	1	3	3	5	4	4	3	3	3	3	1
permeability-rainfall index	2	3	2	2	2	1	2	2	1	2	3	1	3	1	2	2
dispersibility of topsoil	2	2	2	2	-	2	2	2	2	2	2	4	2	2	2	3
gravel /stone / boulder content	5	4	2	2	2	3	3	2	5	4	4	3	3	3	3	2
electrical conductivity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
susceptibility to sheet erosion	2	5	4	3	3	3	3	3	3	1	5	4	3	3	2	4
susceptibility to gully erosion	2	3	2	2	1	2	2	2	1	3	3	4	4	3	3	4
susceptibility to wind erosion	2	1	1	1	1	2	3	3	3	3	2	3	3	3	3	4

## B.4 Agriculture

MAP UNITS	Dg1a	Dg1b	Dg1c	Dg1d	Dg1h	Dg2a	Dg2b	Dg2c	Dg2d	Dg2f	Dg2h	Dg2x	Dra	Drb	Drc	Drd	Drh
climate	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
topography	1	5	4	3	4	1	5	4	3	2	4	1	1	5	4	3	4
topsoil conditions A1,A2	4	4	2	2	2	3	3	4	2	4	2	2	2	2	2	2	2
depth of topsoil	1	1	1	2	1	3	3	1	4	1	2	2	2	2	2	4	2
depth to hard rock/pan	4	1	3	2	2	4	4	1	4	3	2	2	1	1	1	1	2
depth to seasonal water table	1	1	1	2	3	1	1	1	2	2	2	1	1	1	1	1	2
available water capacity	3	1	3	3	3	5	5	1	4	4	3	4	1	1	1	2	3
permeability-rainfall index	2	2	1	1	2	3	2	2	1	2	3	1	2	2	2	1	2
dispersibility of topsoil	2	4	-	-	2	-	-	2	2	-	-	2	2	2	2	2	-
gravel /stone / boulder content	2	2	2	1	3	4	4	4	4	4	2	4	2	2	2	3	2
electrical conductivity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
susceptibility to sheet erosion	2	4	3	3	3	2	4	3	3	2	4	2	1	3	3	3	4
susceptibility to gully erosion	2	3	3	3	3	3	4	3	2	3	3	2	2	3	3	3	3
susceptibility to wind erosion	4	3	3	3	3	4	3	4	3	3	3	3	3	3	3	3	4

## B.4 Agriculture

MAP UNITS	Qva	Qvb	Qvc	Qvd	Qve	Qvf	Qvg	Qvh	Dsa	Dsb	Dsc	Dsd	Dsf	Qff	Qa1
climate	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
topography	1	5	4	3	1	2	2	1	1	5	4	3	2	2	1
topsoil conditions A1,A2	2	2	3	1	2	1	2	1	3	3	3	2	2	3	1
depth of topsoil	2	2	1	1	3	2	2	2	1	1	1	3	3	2	1
depth to hard rock/pan	4	2	2	2	4	2	2	1	3	3	3	3	3	1	1
depth to seasonal watertable	1	1	1	1	1	2	2	3	1	1	1	2	2	5	2
available water capacity	4	3	1	3	4	2	2	3	4	4	3	3	3	3	1
permeability-rainfall index	1	1	1	2	1	2	2	2	1	1	1	2	2	3	2
dispersibility of topsoil	-	-	3	-	-	-	-	2	-	-	-	-	-	2	2
gravel /stone / boulder content	3	2	2	2	2	2	2	2	2	2	2	2	2	4	1
electrical conductivity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
susceptibility to sheet erosion	3	5	3	3	3	3	2	3	2	4	3	3	3	3	2
susceptibility to gully erosion	2	3	3	3	2	3	2	2	3	4	3	3	3	3	3
susceptibility to wind erosion	4	3	1	2	1	1	1	3	3	4	3	3	3	3	1