

APPENDIX B. WORKING TABLES FOR LAND CAPABILITY CLASSES

B1 Agriculture

B.1 Agriculture

MAP UNITS	Qa1	Qa2	Qap	Qbb	Qbc	Qbd	Qbf	Qbp	Qbr	Tfd	Tff	Tse1	Tsf1
climate	3	3	3	3	3	3	3	3	3	3	3	3	3
topography	1	1	1	5	4	4	3	1	1	4	3	3	3
topsoil conditions A1,A2	3	3,4	3,4	1	1	1	1	1	1	2,4	2,4	2,4	2,4
depth of topsoil	1	1	2	4	4	4	4	4	4	1	1	2	2
depth to hard rock/pan	1	2	1	5	5	4	4	3	4	1	1	4	4
depth to seasonal water table	1	3	1	1	1	1	1	1	1	1	1	1	1
available water capacity	2	2	3	5	5	3	3	2	2	1	1	3	3
permeability-rainfall index	2	2	2	2	2	2	2	2	2	3	3	1	1
dispersibility of topsoil	1	1	1	1	1	1	1	1	1	4	4	2	2
gravel/stone/boulder content	2	2	2	4	4	3	3	2	4	4	4	4	4
electrical conductivity	1	3	1	1	1	1	1	1	1	2	2	3	3
susceptibility to sheet erosion	1	1	1	5	5	4	3	1	1	5	5	3	3
susceptibility to gully erosion	3	3	3	2	2	2	2	1	1	4	3	3	3
susceptibility to wind erosion	1	1	1	1	1	1	1	1	1	4	4	2	2

B.1 Agriculture

MAP UNITS	Dgr	Dga	Dgb	Dgc	Dgd	Dge	Dgf	Dgg	Dgh	Osa	Osb	Osc	Osd	Ose	Osf	Osg	Osh
climate	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
topography	5	5	5	4	4	3	3	2	2	5	5	4	4	3	3	2	2
topsoil conditions A1,A2	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3,4	3,4	3,4
depth of topsoil	2	1	1	1	1	1	1	1	1	4	4	4	4	4	2	2	1
depth to hard rock/pan	5	5	5	5	3	5	3	3	1	5	4	4	3	3	2	2	2
depth to seasonal watertable	1	1	1	1	5	1	5	5	3	1	1	1	1	1	1	1	3
available water capacity	4	4	4	4	2	4	2	2	1	5	5	5	5	5	2	2	3
permeability-rainfall index	3	3	3	3	1	3	1	1	2	2	2	2	2	2	2	2	2
dispersibility of topsoil	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
gravel/stone/boulder content	5	4	4	4	3	4	1	1	2	4	4	3	3	3	2	2	2
electrical conductivity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
susceptibility to sheet erosion	3	4	4	3	4	3	3	3	3	5	5	4	4	3	3	2	1
susceptibility to gully erosion	2	4	4	3	3	3	3	3	4	4	4	4	4	3	3	3	3
susceptibility to wind erosion	4	4	4	4	1	4	1	1	3	3	3	3	3	3	4	4	1

B.2 Effluent disposal

MAP UNITS	Qa1	Qa2	Qap	Qbb	Qbc	Qbd	Qbf	Qbp	Qbr	Tfd	Tff	Tse1	Tsf1
slope	1	1	1	5	4	3	2	1	1	3	2	2	2
flooding risk	5	4	4	1	1	1	1	1	1	1	1	1	1
drainage	3	4	3	2	2	2	2	5	5	2	2	3	3
depth to seasonal watertable	1	3	1	1	1	1	1	1	1	1	1	2	2
depth to hard rock/impermeable layer	1	2	1	3	3	3	2	2	2	1	1	3	3
no. of months/year av. rainfall >Ksat	1	1	1	1	1	1	1	1	1	1	1	1	1
permeability	5	3	3	1	1	1	1	4	4	1	1	4	4

B.2 Effluent disposal

MAP UNITS	Dgr	Dga	Dgb	Dgc	Dgd	Dge	Dgf	Dgg	Dgh	Osa	Osb	Osc	Osd	Ose	Osf	Osg	Osh
slope	5	5	5	4	3	2	2	1	1	5	5	4	3	2	2	1	1
flooding risk	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3
drainage	1	1	1	1	4	1	4	4	3	1	1	1	2	2	4	4	4
depth to seasonal watertable	1	1	1	1	4	1	4	4	3	1	1	1	1	1	1	1	3
depth to hard rock/impermeable layer	5	4	4	4	3	4	2	2	1	4	4	4	3	4	2	2	1
no. of months/year av. rainfall >Ksat	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
permeability	1	1	1	1	2	2	2	2	1	1	1	1	1	1	4	4	3

B.3 Farm dams

MAP UNITS	Qa1	Qa2	Qap	Qbb	Qbc	Qbd	Qbf	Qbp	Qbr	Tfd	Tff	Tse1	Tsf1
slope	2	2	2	5	5	4	3	1	5	4	3	1	1
linear shrinkage	2	1	2	3	3	3	3	2	2	2	2	2	2
suitability of subsoil	1	3	1	5	5	5	5	3	5	4	4	5	5
depth to seasonal watertable	1	3	1	1	1	1	1	1	1	1	3	1	1
depth to hard rock	1	1	1	5	5	5	5	4	5	3	3	5	5
permeability	3	3	2	4	4	4	4	3	3	4	4	3	3
dispersibility of subsoil	2	3	2	2	2	2	2	2	2	3	3	5	5
susceptibility to slope failure	1	1	1	2	2	2	1	1	1	4	1	1	1

B.3 Farm dams

MAP UNITS	Dgr	Dga	Dgb	Dgc	Dgd	Dge	Dgf	Dgg	Dgh	Osa	Osb	Osc	Osd	Ose	Osf	Osg	Osh
slope	5	5	5	5	4	3	1	2	1	5	5	5	4	1	1	2	1
linear shrinkage	1	1	1	1	1	1	1	1	3	1	1	1	1	1	3	3	1
suitability of subsoil	5	5	5	5	4	5	4	4	2	5	5	5	5	5	3	3	3
depth to seasonal watertable	1	1	1	1	5	1	5	5	3	1	1	1	1	1	1	1	3
depth to hard rock	5	5	5	5	4	5	3	3	3	5	5	5	5	5	4	4	4
permeability	5	5	5	5	4	5	4	4	4	4	4	4	4	4	3	3	3
dispersibility of subsoil	2	2	2	2	3	2	3	3	1	1	1	1	1	1	5	5	3
susceptibility to slope failure	1	3	3	3	3	1	1	1	2	3	3	3	3	1	1	1	1

B.4 Secondary roads

MAP UNITS	Qa1	Qa2	Qap	Qbb	Qbc	Qbd	Qbf	Qbp	Qbr	Tfd	Tff	Tse1	Tsf1
slope	1	1	1	5	4	4	4	1	1	4	3	2	3
drainage	3	4	3	2	2	2	2	5	5	2	2	3	3
depth to seasonal watertable	1	3	1	2	2	2	2	2	2	1	2	1	3
proportion of stone and boulder	1	1	1	4	4	3	2	2	5	1	1	1	1
depth to hard rock	1	1	1	5	5	4	3	2	5	1	1	2	2
susceptibility to slope failure	1	1	1	2	2	2	1	1	1	4	1	1	1
linear shrinkage	1	1	2	3	3	3	3	2	2	2	2	2	2
flooding risk	5	4	4	1	1	1	1	1	1	1	1	1	1
dispersibility of subsoil (>4% slope)				2	2	2				2	2	5	5
USG subsoil	3	3	3	4	4	4	4	3	3	3	3	4	4

B.4 Secondary roads

MAP UNITS	Dgr	Dga	Dgb	Dgc	Dgd	Dge	Dgf	Dgg	Dgh	Osa	Osb	Osc	Osd	Ose	Osf	Osg	Osh
slope	5	5	5	4	4	3	3	2	2	5	5	4	4	3	3	2	2
drainage	1	1	1	1	4	1	4	4	3	1	1	1	1	1	4	4	4
depth to seasonal watertable	2	2	2	2	4	2	4	4	3	2	2	2	2	2	2	2	3
proportion of stone and boulder	5	3	3	3	2	3	2	2	1	4	4	3	3	3	2	1	1
depth to hard rock	5	3	3	3	2	3	1	1	1	4	4	3	3	3	2	2	1
susceptibility to slope failure	3	3	3	3	3	1	1	1	2	3	3	3	3	1	1	1	1
linear shrinkage	1	1	1	1	3	2	3	3	1	1	1	1	1	1	1	1	1
flooding risk	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3
dispersibility of subsoil (>4% slope)	2	2	2	2	2	2	2			3	3	3	3	3	5		
USG subsoil	2	2	2	2	3	2	3	3	2	3	3	3	3	3	3	3	3

B.5 Building foundations, i) slab ii) stumps

MAP UNITS	Qa1	Qa2	Qap	Qbb	Qbc	Qbd	Qbf	Qbp	Qbr	Tfd	Tff	Tse1	Tsf1
slope i);ii)	1,1	1,1	1,1	5,4	4,3	4,3	3,2	1,1	1,1	4,3	3,2	2,1	3,2
drainage	3	4	3	2	2	2	2	5	5	2	2	3	3
depth to seasonal watertable	1	1	1	2	2	2	2	2	2	1	1	1	3
proportion of stones and boulders	1	3	1	1	1	1	1	1	4	1	2	1	1
depth to hard rock	1	1	1	5	5	4	3	2	5	1	1	2	2
susceptibility to slope failure	1	1	1	2	2	2	1	1	1	4	1	1	1
linear shrinkage i);ii)	1	1	2	3	3	3	3	2	2	1,2	1,2	1,2	1,2
flooding risk	5	4	4	1	1	1	1	1	1	1	1	1	1

B.5 Building foundations, i) slab ii) stumps

MAP UNITS	Dgr	Dga	Dgb	Dgc	Dgd	Dge	Dgf	Dgg	Dgh	Osa	Osb	Osc	Osd	Ose	Osf	Osg	Osh
slope i);ii)	5,5	5,5	5,5	4,3	4,3	3,2	3,2	2,1	2,1	5,5	5,5	4,3	4,3	3,2	3,2	2,1	2,1
drainage	1	1	1	1	4	1	4	4	3	1	1	1	1	1	4	4	4
depth to seasonal watertable	2	2	2	2	4	2	4	4	3	2	2	2	2	2	2	2	3
proportion of stones and boulders	5	3	3	3	2	3	2	2	1	4	4	3	3	3	2	1	1
depth to hard rock	5	3	3	3	2	3	1	1	1	4	4	3	3	3	2	2	1
susceptibility to slope failure	3	3	3	3	3	1	1	1	2	3	3	3	3	1	1	1	1
linear shrinkage i);ii)	1,1	1,1	1,1	1,1	2,3	1,1	2,3	2,3	1,1	1,1	1,1	1,1	1,1	1,1	2,3	2,3	1,1
flooding risk	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3