

**APPENDIX B Working tables for land capability ratings**

**B.1 Farm Dams**

MAP UNITS	Qa1	Qa2	Qa3	Qa4	Qf1d	Qf1f	Qf2f	Qf2g	Qf3c	Qba	Qbc	Qbd	Qbf	Qbg	Qbh	Dga	Dgb	Dgc	Dgd	Dsa	Dsb	Dsc	Dsd	Dse	Dsf	Dsg	Dsh
<b>Parameters</b>																											
slope	2	2	2	2	4	3	3	2	5	1	5	4	3	2	3	2	5	5	4	2	5	5	4	2	3	2	1
linear shrinkage	1	2	2	1	3	3	2	2	1	3	3	3	3	4	3	1	1	2	2	1	1	2	2	2	2	2	2
suitability of subsoil	5	3	3	5	3	3	3	3	3	5	5	5	5	4	3	5	5	4	4	5	5	5	5	5	4	4	3
depth to seasonal watertable	3	3	3	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4
depth to hard rock	1	1	2	1	2	2	3	3	3	5	5	5	5	5	3	5	5	4	4	5	5	5	5	5	4	4	4
permeability	4	3	3	4	3	2	4	4	5	4	4	4	4	2	3	5	5	3	3	5	5	3	3	4	3	3	3
dispersibility of subsoil	4	3	3	2	4	3	5	5	1	3	3	3	3	3	4	2	3	3	3	3	3	2	2	3	2	2	4
susceptibility to slope failure	1	1	1	1	4	2	2	2	4	1	3	3	2	1	2	1	4	4	4	1	3	3	3	1	2	2	1

### B.3 Effluent Disposal

MAP UNITS	Qa1	Qa2	Qa3	Qa4	Qf1d	Qf1f	Qf2f	Qf2g	Qf3c	Qba	Qbc	Qbd	Qbf	Qbg	Qbh	Qga	Dgb	Dgc	Dgd	Dsa	Dsb	Dsc	Dsd	Dse	Dsf	Dsg	Dsh
<b>Parameters</b>																											
slope	1	1	1	2	3	2	2	2	4	1	4	3	2	1	3	1	5	4	3	1	5	4	3	1	2	1	2
flooding risk	5	5	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
drainage	4	4	4	2	3	4	3	3	1	2	1	1	2	4	4	1	1	3	3	1	1	2	2	2	3	3	4
depth to seasonal watertable	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
depth to hard rock / impermeable layer	2	1	1	1	2	2	1	1	1	4	4	4	4	4	1	4	4	1	2	5	5	4	4	4	3	3	1
no. of months/year av. rainfall >Ksat	1	1	1	1	1	5	1	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1
permeability	2	3	4	2	4	5	2	2	1	2	2	2	2	5	4	1	1	4	4	1	1	4	4	1	4	4	4

## B.2 Secondary Roads

MAP UNITS	Qa1	Qa2	Qa3	Qa4	Qf1d	Qf1f	Qf2f	Qf2g	Qf3c	Qba	Qbc	Qbd	Qbf	Qbg	Qbh	Qga	Dgb	Dgc	Dgd	Dsa	Dsb	Dsc	Dsd	Dse	Dsf	Dsg	Dsh
<b>Parameters</b>																											
slope	1	1	2	2	4	3	3	2	4	1	4	4	3	1	3	1	5	4	4	1	5	4	4	1	3	2	2
drainage	4	4	4	2	3	4	3	3	1	2	1	1	2	4	4	1	1	3	3	1	1	2	2	2	3	3	4
depth to seasonal watertable	2	2	2	2	1	2	1	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
proportion of stone and boulder	1	1	1	1	1	1	1	1	1	4	2	2	1	1	1	2	2	2	2	2	2	1	1	2	1	1	1
depth to hard rock	2	1	1	1	2	2	1	1	1	3	3	3	3	3	2	3	3	1	2	4	4	3	3	2	2	2	1
susceptibility to slope failure	1	1	1	1	4	2	2	2	4	1	3	3	2	1	2	1	4	4	4	1	3	3	3	1	2	2	1
linear shrinkage	1	2	2	1	3	3	2	2	1	3	3	3	3	4	3	2	2	2	2	1	1	2	2	2	2	2	2
flooding risk	5	5	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3
dispersibility of subsoil (>4% slope)						2	2		2	2	2	2	2	2	4		2	4	4		2	2	2		2	2	
USG subsoil	4	4	3	3	3	3	3	3	2	3	3	3	3	3	3	1	1	3	3	4	4	3	3	3	3	3	3

## B.6 Rural Residential Development

MAP UNITS	Qa1	Qa2	Qa3	Qa4	Qa4	Qf1d	Qf1f	Qf2f	Qf2g	Qf3c	Qba	Qbc	Qbd	Qbf	Qbg	Qbh	Qga	Qgb	Qgc	Dgd	Dsa	Dsb	Dsc	Dsd	Dse	Dsf	Dsg	Dsh	
<b>Parameters</b>																													
building foundation i);ii)	4	4	4	2	4	4	4	3	3	4	5	5	5	4	4	4	5	5	5	4	5	5	4	4	3	3	3	4	4
farm dams	5	3	3	5	4	4	3	5	5	5	5	5	5	5	5	4	5	5	5	4	5	5	5	5	5	4	4	4	4
effluent disposal	5	5	4	2	4	4	5	3	3	4	4	4	4	4	5	4	4	5	4	4	5	5	4	4	4	4	4	4	4
secondary roads	5	5	4	3	4	4	4	3	3	4	4	4	4	3	4	4	3	5	4	4	4	5	4	4	3	3	3	3	4

## B.5 Agriculture

MAP UNITS	Qa1	Qa2	Qa3	Qa4	Qf1d	Qf1f	Qf2f	Qf2g	Qf3c	Qba	Qbc	Qbd	Qbf	Qbg	Qbh	Dga	Dgb	Dgc	Dgd	Dsa	Dsb	Dsc	Dsd	Dse	Dsf	Dsg	Dsh	
<b>Parameters</b>																												
climate	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
topography	1	1	2	2	4	3	3	2	4	1	4	4	3	2	4	1	5	4	4	1	5	4	4	1	3	2	2	
topsoil conditions A1,A2	2	2,2	2,3	2,3	2,2	2,3	2,3	2,3	2,2	1	1	1	1	1	2	1,2	1,2	2,4	2,4	2	2	2,3	1,2	3,4	1,2	1,2	2,4	2,4
depth of topsoil	1	1	1	1	1	1	1	1	1	2	2	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
depth to hard rock / pan	1	2	2	2	2	2	2	2	2	4	4	4	4	4	3	4	4	3	3	5	5	4	4	4	3	3	2	2
depth to seasonal water table	2	2	2	2	1	2	1	3	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	4
available water capacity	1	1	1	4	2	1	2	2	4	4	4	4	4	4	1	4	4	1	1	5	5	3	3	3	3	3	1	1
permeability-rainfall index	1	2	2	1	2	3	1	1	3	1	1	1	1	3	2	2	2	2	2	3	3	2	2	2	2	2	2	2
dispersibility of topsoil	3	3	3	3	3	3	3	3	3	2	2	2	2	3	3	3	3	3	3	2	2	3	3	3	3	3	3	3
gravel /stone / boulder content	1	2	2	2	4	1	4	4	5	4	4	4	3	3	1	3	3	2	2	5	5	3	3	4	3	3	2	2
electrical conductivity	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	3
susceptibility to sheet erosion	2	2	2	2	4	3	3	2	4	3	5	5	4	3	3	3	5	5	5	3	3	5	4	1	3	2	2	2
susceptibility to gully erosion	2	3	2	2	4	4	4	4	3	1	2	2	2	1	3	2	3	3	3	2	2	3	3	2	3	3	4	4
susceptibility to wind erosion	3	3	3	3	3	4	3	3	3	3	3	3	3	3	3	4	4	3	3	3	3	3	3	1	3	3	3	4

