

APPENDIX 4 - LAND CAPABILITY RATING TABLES

Table 6. - LAND CAPABILITY RATING TABLE FOR URBAN USE.

This table shows the relationship between the land capability classes, in urban use, and the limiting features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-8%	8-15%	15-20%	20-30%	Greater than 30%
Landslip Hazard	None	-	-	Low	Moderate-high
% Outcropping Rock	None	0-1%	1-5%	5-10%	Greater than 10%
Site Drainage	Good	Moderate; Easily drained	Poor; Easily drained	Moderate-poor; Not easily drained	Very poor
% Gravel 0.2 to 7.5 cm	0-10%	10-20%	20-40%	40-60%	Greater than 60%
% Stones 7.5 to 25 cm	0-5%	5-15%	15-40%	40-50%	Greater than 50%
Depth to rock	Greater than or equal to 0.5 m	-	-	Less than 0.5 m	-
A Horizon Soil Texture	Most soil types	-	Heavy clays	-	-
B Horizon Emerson Dispersion & Slaking Class	3-8	1 and 2	-	-	-
B Horizon Unified Soil Group	GW, SW, SM	CL, CH	ML, OL, MH	OH	Pt
B Horizon Shrink Swell	0-2%	2-10%	10-20%	Greater than 20%	-
Slumping of Batters	None	Low Easily controlled	Moderate-High	-	-
Erosion Hazard	Low	Moderate	High	Very high	Severe
Flood Hazard	Less than 1 in 100 years	-	-	-	Greater than 1 in 100 years

Table 7. - LAND CAPABILITY RATING TABLE FOR INTENSIVE CROPPING.

This table shows the relationship between the land capability classes, in this use, and their limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-8%	8-15%	15-30%	15-30%	Greater than 30%
Landslip Hazard	None-low	Low-moderate	-	High	Very High
% Outcropping Rock	None	-	-	0-5%	Greater than or Equal to 5 % of area
Availability of Dam Sites	Adequate	-	-	Limited Number	Inadequate Number
Site Drainage	Good	Moderate; Easily Drained	Moderate; Not Easily Drained	Poor	Very poor
Soil Profile	Slow to rapid	-	Excessive	-	-
Surface Infiltration	Good	Moderate	Poor	Very Poor	Bo absorption
% Gravel 0.2 to 7.5 cm	None	1-10%	10-20%	20-30%	Greater than 30%
% Stones 7.5 to 25 cm	None	1-5%	5-10%	10-20%	Greater than 20%
Depth to Rock	Greater than 1.5 m	1.5-0.5 m	-	-	Less than 0.5 m
Depth to Winter Water Table	Greater than 0.5 m	0.5-0.3 m	0.3-0.1m	Less than 0.1 m	-
Depth to Friable Soil	Greater than or equal to 0.5 m	-	0.5-0.3 m	Less than 0.3 m	Less than 0.3 m & rock outcrop greater than 5% of area
Moist Consistence	Friable	-	Firm	-	Very Firm
Dry Consistence	Loose	Slightly Hard	-	Hard-Very hard	-
A Horizon pH	6-7	5-6 & 7-8	-	4-5 & 8-9	Less than 4 Greater than 9
A Horizon Soil Texture	Loams	-	-	Sands and Clays	-
A Horizon % Organic Matter	Greater than or equal to 5%	Less than 5%	-	-	-
B Horizon Emerson dispersion & Slaking Class	3-8	2	1	-	-
B horizon Shrink Swell	0-10%	Greater than 10%	-	-	-
Erosion Hazard	Low	-	Moderate	High	Very high-severe
Flood Hazard	Less than 1 in 15 Years	-	-	Greater than 1 in 5 Years	Nearly every year

Table 8. - LAND CAPABILITY RATING TABLE FOR STUMPS AND STRIP FOOTINGS USED AS FOUNDATION IN LIGHT BUILDINGS.

This table shows the relationship between the land capability classes in this use and the limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-8%	8-15%	15-20%	20-30%	Greater than 30%
Landslip Hazard	None	-	-	Low	Moderate-severe
% Outcropping Rock	0-0.02%	0.02-0.2%	0.2-5%	5-20%	Greater than 20%
Site Drainage	Good	Moderate; Easily drained	Poor; Easily drained	Moderate-poor; Not easily drained	Very poor
% Gravel 0.2 to 7.5 cm	0-10%	10-20%	20-50%	50-60%	Greater than 60%
% Stones 7.5 to 25 cm	0-5%	5-15%	15-30%	30-50%	Greater than 50%
Depth to rock	Greater than 1.0 m	1.0-0.5 m	0.5-0.2 m	Less than 0.2 m	-
Depth to Winter Table	Greater than 1.0 m	1.0-0.3 m	0.3-0.1 m	Less than 0.1 m	-
B Horizon Emerson Dispersion & Slaking Class	3-8	2	1	-	-
B Horizon Unified Soil Group	GW, SW, GP, GM	CL (PI less than 15) SP, SC, SM, GC	CL (PI greater than 15) ML	OL, MH, CH, OH	P+
B Horizon Shrink Swell	0-2%	2-10%	10-20%	Grater than 20%	-
Slumping of Batters	Low	Moderate	High	-	-
Erosion Hazard	Low	Moderate	High to Severe	-	-
Flood Hazard	None	-	-	Less than 1 in 100 years	Greater than 1 in 100 years

Table 9. - LAND CAPABILITY RATING TABLE FOR CONCRETE SLABS, USED A FOUNDATIONS IN LIGHT BUILDING CONSTRUCTION.

This table shows the relationship between the land capability classes, in this use, and the limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-5%	5-8%	8-30%	Greater than 30%
Landslip Hazard	None	-	-	Low	Moderate to Severe
% Outcropping Rock	Less than 0.05%	0.05-0.5%	0.5-10%	10-30%	Greater than 30%
Site Drainage	Good	Moderate; Easily Drained	Poor; Easily Drained	Moderate-poor; Not easily drained	Very poor
% Gravel 0.2 to 7.5 cm	0-10%	10-20%	20-50%	50-60%	Greater than 60%
% Stones 7.5 to 25 cm	0-8%	8-20%	20-35%	35-60%	Greater than 60%
Depth to rock	Greater than 1.0 m	1.0-0.5 m	0.5-0.2 m	Less than 0.2 m	-
Depth to Winter Table	Greater than 1.0 m	1.0-0.3 m	0.3-0.1 m	Less than 0.1 m	-
B Horizon Emerson Dispersion & Slaking Class	3-8	2	1	-	-
B Horizon Unified Soil Group	GW, SW, GP, GM, SW, SC, SM, GC	CL, CH	ML, OL, MH	OH	P+
B Horizon Shrink Swell	0-10%	10-20%	Greater than 20%	-	-
Slumping of Batters	Low	Moderate	High	-	-
Erosion Hazard	Low	Moderate	High to Severe	-	-
Flood Hazard	None	-	-	Less than 1 in 100 years	Greater than 1 in 100 years

Table 10. - LAND CAPABILITY RATING TABLE FOR ACCESS ROADS AND PARKING LOTS.

This table shows the relationship between the land capability classes, for access roads and parking lots, and their limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-8%	-	8-15%	Greater than 15%
Landslip Hazard	None	-	-	Low	Moderate-severe
% Outcropping Rock	0-0.2%	0-2.1%	1-5%	5-20%	Greater than 20%
Site Drainage	Excessively well drained	Moderate	Poor; Easily drained	Poor; Not easily drained	Very poor
% Stones 7.5 to 25 cm	Less than 10%	10-20%	20-40%	40-60%	Greater than 60%
Depth to rock	Greater than 1.0 m	1.0-0.75 m	0.75-0.5 m	0.5-0.3 m	Less than 0.3 m
Depth to Winter Table	Greater than 1.5 m	1.5-0.5 m	0.5-0.3 m	Less than 0.3 m	-
B Horizon Emerson Dispersion & Slaking Class	3-8	2	1	-	-
B Horizon Unified Soil Group	GP, GW, SW	SM, GC, SC, GM	CL (PI less than 15) SP	OL, OH, CH, MH, ML, CL (PI Greater than 15)	PT
B Horizon Shrink Swell	0-2%	2-10%	10-20%	Greater than 20%	-
Slumping of Batters	None-Low	Moderate	High-severe	-	-
Flood Hazard	None	-	Less than 1 in 100 Years	1 in 25-100 years	Greater than 1 in 25 years

Table 11. - LAND CAPABILITY RATING TABLE FOR ON-SITE EFFLUENT DISPOSAL.

This table shows the relationship between the land capability classes, for effluent disposal, and their limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-8%	8-15%	15-30%	Greater than 30%
Landslip Hazard	None	-	Low	Moderate	High-severe
% Outcropping Rock	0-0.02%	0.02-0.2%	0.2-5%	5-20%	Greater than 20%
Site Drainage	Well excessively well drained	Moderately well drained	Imperfectly drained	Poorly drained	Very poorly drained
Soil Profile Permeability	Very rapid	Rapid	Moderate	Slow	Very slow
% Gravel 0.2 to 7.5 cm	0-5%	5-20%	20-50%	50-75%	Greater than 75%
% Stones 7.5 to 25 cm	0-2%	2-10%	10-40%	40-60%	Greater than 60%
Depth to rock	Greater than 2.0 m	2.0-1.5 m	1.5-1.0 m	1.0-0.75 m	Less than 0.75
Depth to Winter Table	Greater than 2.0 m	2.0	1.0-0.5 m	0.5-0.3 m	Less than 0.3 m
B Horizon Emerson Dispersion & Slaking Class	3-8	2	1	1	-
Flood Hazard	None	-	Less than 1 in 100 Years	Less than 1 in 25 Years	Nearly every year

Table 12. - LAND CAPABILITY RATING TABLE FOR GRAZING.

This table shows the relationship between the land capability classes, for grazing and the limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-8%	8-15%	15-30%	15-30%	Greater than 30%
Landslip Hazard	None	Low	Moderate	High	Very high to severe
% Outcropping Rock	0-55	5-10%	10-30%	Greater than 30%	-
Availability of Dam sites	Adequate number	Limited Number	Limited number	Limited number	Inadequate number
Site Drainage	Good	Moderate	Poor	Very Poor	-
Depth to rock	Greater than 0.5 m	0.5-0.2 m	0.2-0.1 m	Less than 0.1 m	At Surface
Depth to Winter Table	Greater than 0.5 m	0.1-0.5 m	Less than 0.1 m	-	-
Limiting Depth for Pasture Roots	Greater than 0.1 m	-	-	0-0.1 m	-
A Horizon Soil Texture	Most Soil types	-	Sand	Organic soil	-
Erosion Hazard	None-Low	Moderate	High	Very High	Severe
Flood Hazard	Less than 1 in 10 Years	-	Greater than 1 in 10 years	-	-

Table 13. - LAND CAPABILITY RATING TABLE FOR PLAYING FIELDS.

This table shows the relationship between the land capability classes, for playing fields and the limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-5%	5-8%	8-15%	Greater than 15%
Landslip Hazard	None	-	-	Low	Moderate-severe
% Outcropping Rock	None	-	-	0.5-5%	Greater than 5%
Site Drainage	Well Drained	Moderately and excessively well Drained	Imperfectly Drained	Poorly Drained	Very poorly Drained
% Gravel 0.2 to 7.5 cm	0-5%	5-105	10-255	25-40%	Greater than 40%
% Stones 7.5 to 25 cm	0-2%	2-55	5-155	15-30%	Greater than 305
Depth to rock	1.5 m	1.5-1.3 m	1.2-0.8 m	0.8-0.5 m	Less than 0.5 m
A horizon Soil Texture	Loams, Sandy Loams	Clay loams, Sands	Light Clay	Heavy Clays	-
Flood Hazard	None	-	Less than 1 in 10 Years	1 in 5-10 Years	Greater than 1 in 15 years

Table 14. - LAND CAPABILITY RATING TABLE FOR INTENSIVE USE AREAS, SUCH AS PICNIC GROUNDS.

This table shows the relationship between the land capability classes, for intensive use areas and the limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-8%	8-15%	15-30%	Greater than 30%
Landslip Hazard	None	-	Low	Moderate	High
% Outcropping Rock	0.0-0.05%	0.05-0.5%	0.5-5%	5-20%	Greater than 20%
Site Drainage	Well Drained	Excessively Well Drained	Moderately Drained	Imperfectly or Poorly Drained	Very Poorly Drained
% Gravel 0.2 to 7.5 cm	0-10%	10-20%	20-40%	40-60%	Greater than 60%
% Stones 7.5 to 25 cm	0-5%	5-10%	10-25%	25-50%	Greater than 50%
Depth to rock	Greater than 1.5 m	1.5-1.2 m	1.2-0.8 m	0.8-0.5 m	Less than 0.5 m
A horizon Soil Texture	Loams, clay Loams & Sandy Loams	Loamy Sands	Light clay & Sands	Heavy Clay	Organic soils & Peat
Erosion Hazard	Low	Moderate	High	Very High	Severe
Flood Hazard	None	-	Less than 1 in 25 Years	Less than 1 in 10-25 Years	Greater than 1 in 10 Years

Table 15. - LAND CAPABILITY RATING TABLE FOR PATHS AND TRACKS.

This table shows the relationship between the land capability classes, for paths and their limiting land features.

LAND FEATURES/CLASS	1	2	3	4	5
Slope	0-2%	2-8%	8-15%	15-30%	Greater than 30%
% Outcropping Rock	0-1%	1-5%	5-15%	15-40%	Greater than 40%
Site Drainage	Well Drained	Moderately & Excessively well Drained	Imperfectly Drained	Poorly Drained	Very Poorly Drained
% Stones 7.5 to 25 cm	0-10%	10-20%	20-30%	30-50%	Greater than 50%
A horizon Soil Texture	Loam, Clay Loam	Sandy Loams	Light Clays, Loamy Sands	Clays, Sands	-
B Horizon Emerson Dispersion & Slaking Class	3-8	2	1	1	-
Flood Hazard	None	Less than 1 in 100 Years	1 in 10 Years	-	Greater than 1 in 1 Year