

APPENDIX: RATINGS OF LAND CHARACTERISTICS

Aluminium Saturation Percentage (ASP)

0 - 10	very low
10 - 25	low
25 - 40	moderate
40 - 80	high
> 80	very high

Availability of moisture

no limitations	-
some to severe stress	-
too dry, crop dies	-

Basic infiltration rate (cm/h)

0 - 0.5	very slow
0.5 - 2	slow
2 - 6	moderate
6 - 12	rapid
> 12	very rapid

Depth to bedrock (cm)

0 - 25	very shallow
25 - 50	shallow
50 - 100	moderately
deep	
100 - 120	deep
> 120	very deep

Dominant slope (%)

0 - 2	flat
2 - 6	gently sloping
6 - 13	sloping
13 - 25	moderately
steep	
25 - 80	steep/very
steep	

Drainage class

well to excessively drained
moderately well drained
imperfectly drained
poorly drained
very poorly drained

Electrical conductivity topsoil (0-30 cm) - (dS/m)

0 - 2	very low
2 - 4	low
4 - 8	medium
> 8	high

Electrical conductivity subsoil (30-120 cm) - (dS/m)

0 - 4	very low
S1 4 - 8	low
- S2/S8 - 15	medium
N > 15	high

Exchangeable Bases (cmol(+)/kg)

0 - 2	very low
2 - 4	low
4 - 8	medium
8 - 16	high
> 16	very high

Exchangeable sodium percentage topsoil (0-30 cm)

0 - 6	very low
6 - 15	low
15 - 40	medium
> 40	high

Exchangeable sodium percentage subsoil (30-120 cm)

0 - 15	very low
15 - 40	low
40 - 80	medium
> 80	high

Frequency of flooding

none
daily to weekly
monthly
annually
biennial
once every 2 - 5 years
once every 5 - 10 years
rare (less than once every 10 years)
unknown

Flooding duration (days)

0 - 1
 1 - 15
 15 - 30
 30 - 90
 90 - 180
 180 - 360

Gravel content/stoniness of profile (vol %)

0 - 2 few
 2 - 15 common
 15 - 40 many
 40 - 80 abundant
 > 80 dominant

Organic carbon (%)

0 - 0.3 very low
 0.3 - 0.5 low
 0.5 - 1.0 medium
 1.0 - 2.5 high
 > 2.5 very high

Rootable (effective) soil depth (cm)

0 - 30 very shallow
 30 - 50 shallow
 50 - 100 moderately
 deep
 100 - 150 deep
 > 150 very deep

Sensitivity to capping/sealing

none
 weak
 moderate
 strong

Size of structure elements

very fine to fine
 medium to very coarse

Slope length (m)

0 - 50 short
 50 - 200 medium
 > 200 long

Soil acidity (pH)

0 - 4 very acid
 4 - 5.5 acid
 5.5 - 7.0 slightly acid

Soil basicity (pH)

7 - 7.5 slightly basic
 7.5 - 8.5 basic
 8.5 - 10 very basic

Surface rockiness (%)

0 - 2 very few
 2 - 15 few
 15 - 40 common
 40 - 70 many
 > 70 abundant

Surface stoniness (%)

0 - 2 none to very few
 2 - 5 few
 5 - 15 common
 15 - 40 many
 > 40 abundant

Temperature

no limitations
 too cold

Topsoil structure

single grain, crumb, granular, platy
 medium subangular blocky
 coarse subangular blocky
 massive
 prismatic

