LAND REQUIRMENTS FOR MAIZE

LAND QUALITY	LAND CHARACTERSTICS	LIMITING VALUES FOR LAND CHARACTERSTICS			
		Most Suitable	Moderately Suitable	Marginally Suitable	Not Suitable
TEMPERTURE	ELEVATION, m	0-600	600-1400	1400-2400	>2400
REGIME	MEN ANNUAL TEMP. C ⁰	24-28	20-24,28-31	15-20, >31	<15
GROWING PERIOD	DAYS	150-240	120-150	100-120	<120
CONDITIONS FOR RIPENING	GROWING PERIOD	<240	>240	>240	
WATER AVILABILITY	Mean Annual Rainfall, mm	>1200	1000-1200	800-1000	<800
	75% Probability Rainfall, mm	600	500-600	400-500	<400
	Minimum Soil Depth , cm	100	60-75	40-50	<50
	SubSoil Texture	CL,L,ZL	L,CL,ZL,SL,C,SC	L,CL,ZL,SL,C,ZC,LS,S	L,CL,ZL,SL,C,ZC,L S,S
DRAINAGE	Soil Drainage Class	Well Drained	Moderately Well Drained	Imperfectly Drained,	Excessively, Or Poorly Drained
NUTRIENTS AVAILABILITY	Soil PH	6-7	5,5-6,7.0-7.5	5-5.5,7.5-8.2	<5,>8.2
	Soil Type Sri Lanka	1,5,10,14	4,7,8,9,12,22,26	2,6,16,17,18,19,20,23	3,13,15,25-31
SALINITY	EC _e mS cm ⁻¹ at 50 cm	<2	2-4	4-8	>8
EROSION HAZARD	Slope Angle,%	<5	5-10	10-25	>25
	Past Erosion	Nil	Slight	Moderate	Severe
EASE OF CULTIVATION	Rocks and Stones, %	None	1-10	10-25	>25

KEY TO TABLES OF LAND USE REQUIRMENTS

Key to Sri Lanka Soil Classes

- 1. Reddish brown earths with moderate amount of gravel in subsoil and low humic gley soils,undulating terrain.
- 2. Reddish brown earths with high amount of gravel in subsoil and low humic gley soils, undulating terrain.
- 3. Reddish brown earths and solodized solonetz undulating terrain.
- 4. Reddish brown earths, noncalcic brown soils and low humic gley soils, undulating terrain.
- 5. Reddish brown earths and immature brown loams, rolling , hilly and steep terrain.
- 6. Noncalcic brown soils and low humic gley soils, undulating terrain.
- 7. Noncalcic brown soils ,Soils on old alluvium and solodized, solonetz, undulating terrain.
- 8. Red-Yellow latosols, flat to slightly undulating terrain
- 9. Calcic red-yellow tatosols, flat terrain.
- 10. Solodized solonetz and solonchacks, flat terrain.
- 11. Grumusols , flat terrain.
- 12. Soils on recent marine calcareous sediments, flat terrain.
- 13. Alluvial soils of variable drainage and texture, flat terrain.
- 14. Regosols on recent beach and dune sands, flat terrain.
- 15. Red-yellow podzolic soils and mountain regosols, mountainous terrain.
- 16. Red-yellow podzolic soils , steeply dissected, hilly and rolling terrain.
- 17. Red-yellow podzolic soils with strongly mottled subsoil and low humic gley soils, rolling and undulating terrain.
- 18. Red-yellow podzolic soils with soft and hard laterite, rolling and undulating terrain.
- 19. Red-yellow podzolic soils with dark B horizon and red-yellow podzoilc soils with prominent A1 horizon, rolling terrain.
- 20. Red-yellow podzolic soils with semi prominent A1 horizon, hilly to rolling terrain.
- 21. Redish brown latosolic soils, steeply dissected, hilly and rolling terrain.
- 22. Immature brown loams, steeply dissected, hilly and rolling terrain.
- 23. Bog and half-bog soils, flat terrain.
- 24. Latosols and regosols on old red and yellow sands, flat terrain.
- 25. Alluvial soils of variable drainage and texture, flat terrain.
- 26. Regosols on recent beach sands, flat terrain.
- 27. Rock knob plain.
- 28. Eroded land.
- 29. Erosinal remnants(inselbergs)
- 30. Steep rockland and lithosols.

SOILS TEXTURE

LS	Loamy Sand	CL	Clay Loam
SL	Sandy Loam	SCL	Silty Clay Loam
L	Loam	SC	Sandy Clay
SCS	Sandy Clay Loam	ZiC	Silty Caly
ZL	Silt Loam	С	Clay
Z	Silt		