

LAND REQUIRMENTS FOR CASSAVA

LAND QUALITY	LAND CHARACTERSTICS	LIMITING VALUES FOR LAND CHARACTERSTICS			
		Most Suitable	Moderately Suitable	Marginally Suitable	Not Suitable
TEMPERTURE	ELEVATION, m	0-500	500-1000	1000-1500	>1500
	MEN VALUE TEMP. C ⁰	24-28	21-24,28-30	18-21,>30	<18
GROWING PERIOD	DAYS	>220	180-220	150-180	<150
CONDITIONS FOR RIPENING	GROWING PERIOD,DAYS	<330	330-365	330-365	
WATER AVILABILITY	Mean Annual Rain, mm	>1200	1000-1200	800-1000	<800
	75% Probability Rain, mm	>600	500-600	400-500	<400
	Minimum Soil Depth , cm	120	100-120	75-100	<75
	Subsoil Texture	CL ,L	CL,L,C ,SL,SC	CL,L,C	SL,SC,LS
DRAINAGE	Soil Drainage Class	Well Drained	Well Drained	Excessively, Mod Well, Imperfectly Drained,	Poorly Drained
NUTRIENTS	Soil PH	5.5-6.5	5.0-5.5 6.5-7.0	4.5-5.0 7.0-8.0	<4.5 >8.0
	Soil Type Sri Lanka	1,5,7,9,14,22	4,16,17,19,21	2,6,10,15,16,18, 23-26	3,11,13,20, 27-31
SALINITY	EC _e mS cm ⁻¹	<2	2-4	4-6	>6
EROSION HAZARD	Slope Angle,%	<5	5-10	10-25	>25
	Past Erosion	Nil	Slight	Moderate	Severs
EASE OF CULTIVATION	Topsoil Texture	SL, L	CL,SCL,LS	C,ZC,S	
	Rocks and Stones, %	None	1-5	5-15	>15

KEY TO TABLES OF LAND USE REQUIRMENTS

Key to Sri Lanka Soil Classes

Reddish brown earths and low humic gley soils, undulating terrain

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,noncalcalc brown soils and low humic gley soils, undulating terrain.
5. Reddish brown earths and immature brown loams, rolling , hilly and steep terrain.
6. Noncalcalc brown soils and low humic gley soils, undulating terrain.
7. Noncalcalc brown soils ,Soils on old alluvium and solodized, solonetz, undulating terrain.
8. Red- Yellow latosols,flat to slightly undulating terrain
9. Calcic red-yellow atosols, 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	ZCL	Silty Clay Loam
L	Loam	SC	Sandy Clay
SCS	Sandy Clay Loam	ZiC	Silty Clay
ZL	Silt Loam	C	Clay
Z	Silt		

31.