

AN APPROACH TO UNDERSTAND THE RICE GROWING

ENVIRONMENT IN THE MID COUNTRY

S Somasiri

Land Use Division - Peradeniya

Rice is grown under a wide range of edaphic and climatic conditions in the mid-country. This region can be considered as the most complex area in terms of land-form, soils, hydrology and the climatic environment.

The average yield in the mid-country is well below the Island average. The use of new improved rice varieties and the advanced rice production technologies is of limited application. There are many problems in the region that requires systematic study, to find suitable solutions.

A better understanding of the rice growing conditions of the different rice growing areas of the Kandy District, survey and classification of the soil and hydrological conditions will be the key to improved management of soils, water and the crops. It will form a sound basis for more effective extension services and research investigations in the farmers fields.

In the present phase of work, 21 distinctive land groups (systems and sub-systems) have been identified in Kandy District. Each of these units has uniformity with respect to landscape, drainage pattern, soils on the up lands and valleys, hydrology, land use and agro-climatic conditions. These land units are arranged in the order of decreasing total moisture conditions.

LAND SYSTEMS AND SUB SYSTEMS IN KANDY DISTRICT



LEGEND

UDUNUWARA - YATINUWARA

1a	Danture - Piimatalawa
1b	Gadaladeniya
1c	Ambekke
1d	Ganhata
1e	Gangaboda

HARISPATTUWA

2a	Medawela - Bokkawela
2b	Kulugammama
2c	Talawinne

TUMPANE

3a	Alawatugoda - Ankumbura
3b	Hataraliyadda
3c	Kolugala - Alagala

GANGA IHALA

4a	Dalesbage
4b	Ulapane - Nawatapiiya

TELDENIYA - MADUGODA

5a	Teldeniya
5b	Madugoda

TALAGUNE

6	TALAGUNE
7	NARAMPANAWA

HURIKADUWA - KUNDASALE

8	HURIKADUWA - KUNDASALE
9	UDUWELA - PALLEGAMA

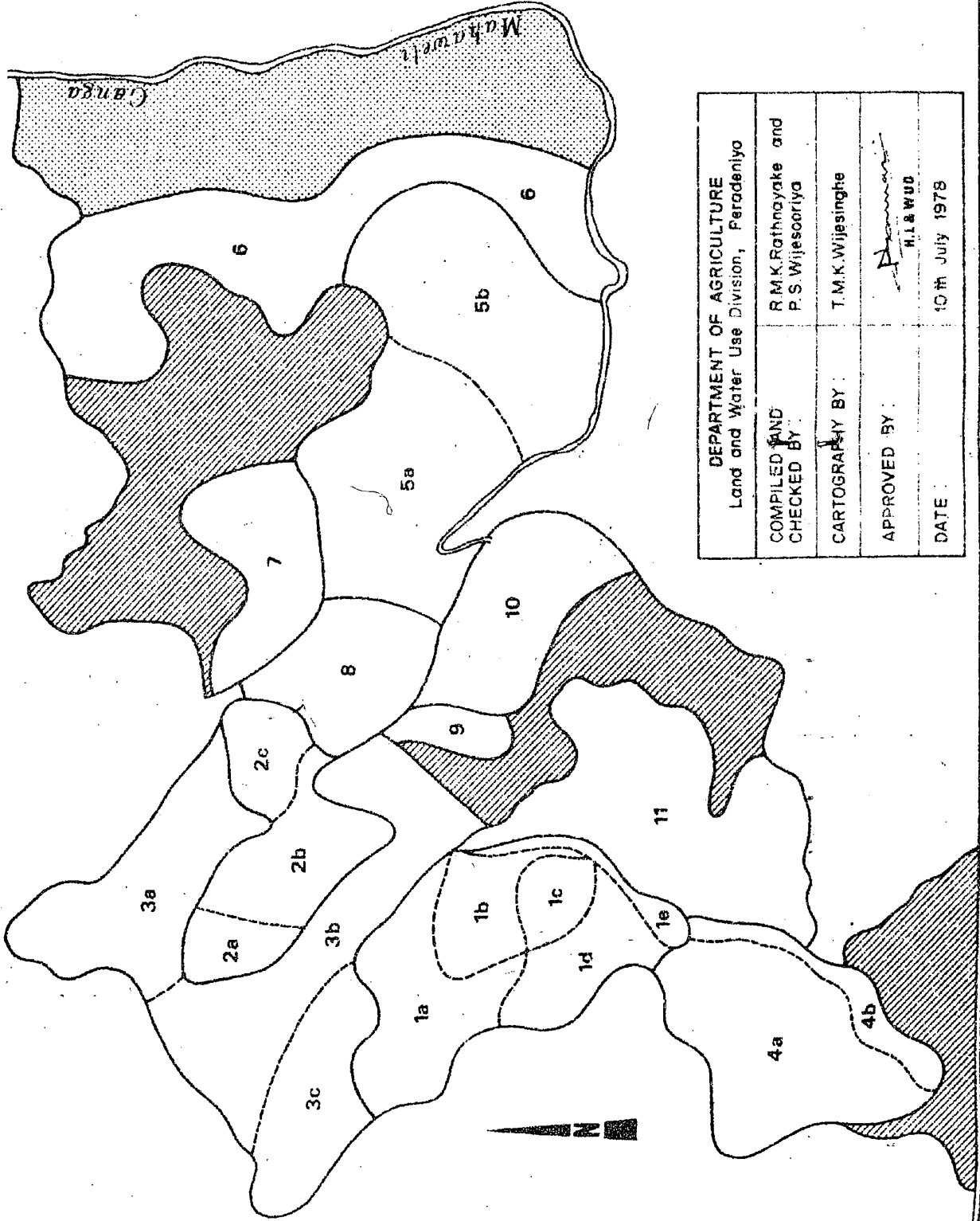
TALATUOYA - MARASSANA

10	TALATUOYA - MARASSANA
11	ATABAGE

Elevation over 3000 ft.

No paddy lands

Elevation less than 1000 ft. (LOW COUNTRY)



DEPARTMENT OF AGRICULTURE Land and Water Use Division, Peradeniya	
COMPILED AND CHECKED BY:	R.M.K. Rathnayake and P.S. Wijesooriya
CARTOGRAPHY BY:	T.M.K. Wijesinghe
APPROVED BY:	<i>[Signature]</i>
DATE:	10th July 1978

LAND SUB-SYSTEMS ARRANGED IN DECREASING ORDER OF
WETNESS FOR RICE CULTURE.

Sub-System	System	Agro Region	Wetness Classifi
01 Dolosbage	Ganga Ihala	WM2	Very wet
02 Atabage	Atabage	WM2	
03 Ulapane- Nawalapitiya	Ganga Ihala	WM2	
04 Alawatugoda-Ankum bura	Tumpane	WM3	
05 Hataraliyadde	Tumpane	WM3	Wet
06 Kolugala- Alagalle	Tumpane	WM3	
08 Naranpanawa	Naranpanawa	WM3	
08 Ganhata	Udunuwara- Yatinuwara	WM2	
09 Uduwela- Pallegama	Uduwela- Pallegama	WM3	
10 Gadaladeniya	Udunuwara- Yatinuwara	WM2	
11 Danture- Pilimatalawa	Udunuwara- Yatinuwara	WM2	
12 Ambekke	Udunuwara- Yatinuwara	WM2	
13 Gangaboda	Udunuwara- Yatinuwara	WM2	
14 Medawela- Bokkawela	Harispattuwa	WM3	
14 Kalugammana	Harispattuwa	WM3	
16 Talawinna	Harispattuwa	WM3	
17 Teldeniya	Teldeniya- Madugoda	IM3	Dry
18 Talatuoya- Marassana	Talatuoya- Marassana	IM3	
19 Kundasale- Hurikaduwa	Kundasale- Hurikaduwa	IM3	
20 Talagune	Talagune	IM3	
21 Madugoda	Teldeniya- Madugoda	IM3	

මැදරට වී වගා පරිසරය

ආචාර්ය ඇස්.සෝමසිරි (පාංශු පරිශීලන අංශය)
පේරාදෙණිය

මැදරට කුඹුරු ප්‍රමාණය අක්කර 40,000 ක් පමණ වේ. විවිධාකාරී පාංශු සහ කාලගුණික තත්වයන් මෙම කලාපයේ දක්නට ලැබේ. පස, ගුළියේ පිහිටීම, ජල වහනය සහ කාලගුණික තත්වයන් විවිධාකාරයෙන් වෙනස්ව තිබේ.

වඩාත් යහපත් අස්වනු ලැබීමට මූලික වශයෙන් ම මෙම කුඹුරු පසෙහි ගුණාංග සහ ජල තත්වය අනුව වර්ගීකරණය කිරීම, ඉතා වැදගත් ය.

ජල සැපයුම, පාංශු ගුණාංග, පෝෂණ ද්‍රව්‍ය ඇති ප්‍රමාණය, පසෙහි වීෂ ද්‍රව්‍ය, ගං වතුරට මුහුණ දීම, කෘමීන්, රෝග පැතිරී යන ආකාරය අනුව කුඩා ඒකක වෙන් කළ හැක. මෙම ඒකක වල දක්නට ලැබෙන තත්වයන් එම ඒකකය තුළ ඒකාකාර වන අතර, එය නිෂ්පාදනය කෙරෙහි ප්‍රබල බලපෑමක් ඇති කරනු නියත ය.

දැනට මෙවැනි ඒකක 21 ක් මහනුවර දිස්ත්‍රික්කය තුළ හඳුනා ගෙන තිබේ. විවිධ තත්වයන් මෙම ඒකකයන් තුළ බොහෝ දුරට සමාන තත්වයකින් පවතී. මෙම ගුළි ඒකක තෙතමනය අඩුවීමේ ප්‍රමාණය අනුව අනුපිළිවෙලකට සැකස් කර තිබේ.

லெலி துணாணகலே பலவந ரீபீவல சிணல பரீவரீநந
ணர் பீவபந் டபலய நலீ லெலே விலபந்ந :

லேலணுடாரய,
லேல டாணர பவீபாகலே னாரீயலய,
நாணீநலீ டேபாரீநலேநீதுவி,
பேராடேநீய .

மத்திய பகுதியில் (கண்டி மாவட்டத்தில்)
நெல் பயிரிடப்படும் சூழ்நிலையை
அறிந்துகொள்ளுதல் .

மத்திய பகுதியில் 40,000 ஏக்கர் நெற்
செய்கைக்கு உட்படுத்தப்பட்ட நிலங்கள் உள்ள, அவற்
நின் விளைவு தேசிய விளைவிலும் குறைவாகும் .

இப்பகுதியில் நெல், காலநிலை, நிலநீர்
ஆசிய அடிப்படையில் பல பிரச்சனைகளை உள்ளடக்கியுள்ள .
ஆகையால் இம்மாவட்டத்தில் உள்ள நெல் வயல்களின்
மண் பிரிவுகள் ஆராய்தல் திருந்திய மண்நீர் பராமரிப்
பிற்கும் உகந்ததாகும் . இதனால் நற்பயன் அளிக்கும்
ஆராய்ச்சியும் விரிவாக்கமும் விவசாயிகளின் வயல்களில்
செய்யலாம் .

இம்மாவட்டத்தில் 21 மண் பிரிவுகள்
உள்ள . இவை மண்ணின் தன்மையின் அளவில் ஒழுங்கு
படுத்தப்பட்டுள்ளது .