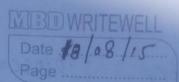
Practical:

Identification and description of potato and tropical, sub-tropical and temperate tuber crops; planting systems and practices; field preparation and sowing/planting. Top dressing of fertilizers and interculture and use of herbicides and growth regulators; identification of nutrient deficiencies, physiological disorders; harvest indices and maturity standards, post-harvest handling and storage, marketing. Seed collection, working out cost of cultivation, project preparation of commercial cultivation.

			Page
5.No	Name of Experiment	Pale	Signetore
1,	Name of Experiment Jidentification of Taber Crops	18/08/15	Sul 10018
2.	To study the different Varieties of sweet lot ato	28/08/15	WIII ON BOOM
3,		7/09/15/	
	To study the description of Cassage & their Varieties		nell
9.	To study the description of Elephon Post yem	8/09/18	1112111
5.	To Calculate Castry Cultivation and Benefit Coest Rabb expotato per ha	11/11/15	AM
	Coest Rabs of Potato perha		
6,	To study the Varieties	22/1/15	
	To study the Varieties of Potato in India		
7.	To study the Varieties	24/11/15	
	To study the Varieties		
		THE REAL PROPERTY.	

Exercise. 1



06+00+	: Tolontilication	41 7010 0		
Object	: Identification	of luber Crop	PS.	
. /				
Name	Botanical Name	family	C·N	Origin
0				0
Potato	Solanum tuberasum	Solanacene	Pn=4x=4R	Peru
44				
Sweet	Ipomea batatag	Convulvulaceno	2n = 90 (60)	1) Could Anger
potreo		- martine	SHOOTING TO COM	south HINEYRA
Calleiva	Honibat esculouta	England's and	2. 2.	0
Choserve	Manihot esculenta	Furnor bieneae	- 2n= 36	Brazil
				white _
Lolo Casi a	Celocasia esculenta	Aracege	24= 28	Snilanka
Jam Ben	Pachyrrhizus ensus	Fabreleve		Herico
-				
Fleshaht	Am or pho phylles	Aralene	24216	
footyem	Amorphophylles Companulatus		(7-10	
0				
Minere	Solehostemon	dabitae	2n= 56,64	Abrica
Chinese	70 tundijelium		111111111111111111111111111111111111111	Africa
	-			
mı	Marauta	Margalassa	1, 21	Tankal
Olleens -	Maranta	Marantaceae	dn 236	Ingicel America
Arrow.	grundinacea			
Root				

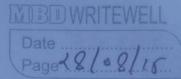
ter Diescorer Dioscoracere Indo Bum Pn=20 alata 19m 14230 8h = 40v Diescorea este Dioscoraceae 2n240, 60 Indo-Burne esser esculenta Yam Brassiqueae Armoracia forse 242416=32 South Radish eubern nus ticana europe Diescraceae Anz 40 white Discorea Indonotundata Burma

Exercise - 2 Object: 70 study different Varieties of Sweet Poteto. There are damy Varieties which are differentiated plainly by the shape, size, color of tuber, flaver color and leaves. A no of local Varieties like Badrakali, Chasale, kottaram chasale et are grown in kerala. The Central Tuber Crop Research Institute (CTCRI) Tiruvanathpuram (kerela) developed quite a good no ey verieties mel a brief description of them are given below. (1) Varsha: A Semi-Spreading hybrid with Reddich furple skin, light gellow plest excellent cookies quality yield 20-22 t/ha 100-105 day (2) Sreenandini? A spreading variety with light

cooking quality gield 20-25 t/ Hall in

cream skin. while flesh good

3) Sree vardhini: A seni spreading varlety with pumple 8kin, light arange glesh & High carotene content gield 20-25 therel. in low- 65 days tolerant to featurery nothe vory. 4) Stee Ratina 2 A spreading variety with pumple skin overnge flesh excellent cooking evelity, (5) Stee Bhadra: A spreading variety with light pumple shin and cream flesh lesistant to root knot memotodes gield 20-29 that in 90-95 days. A spreading variety bith pink Skin, creem flesh & good gield 20-28 t/he in 90-60 6) Sree Arum cooking quality (7) Sree Vasun: A spreaching Varyety with crown flesh & good audity 20-25 t/hart in 900-Lowdays



(8) Tusa sajed (IARI): Introduced from Taiwan Variety wide adoptability. Tuber Medicam sized with good quality yield 250 - 270 0/hact. Pusa Lal -> yield about 2 20- 240 g / heet. It is selection from Norin Variety of Japan. Tubers medium sized Colored yearh white (10) CO-Y - Released from TNAU Combetine is about 180-220 9 lheet. Vines use medium long three tubers per vine · Tuber, skin is light pink flesh is unite cop devation is 150 days. is white & takes 110-120 days to Harriege. Kalmegh - Julds 205- 3259 Theel. Very early vomiety, Tuber round light brown in cola

Δ.	To Classical Control of the Control
MIM	To Study description of Cassava and its Vanieties
	B.N: Manihot esculenta
	Family: Euphorbiaceae
	Origin: Brazil
	Edible Part: Tuberous noot Chr. no. 2n= 36
	About Cassava
-1	Mayor starchy not crop of tropics
	The Plant is ferennial should
-	It is drought to leagnt crop
	It is drought to levert crop Cassava is photo insensitive crop
	EN Cores Cohia : White Miller Right
	It is Mainly Cultivated in Kerale and T.N
	It is Mainly Cultivated in Kerale and 7.N and other North-Fastern Hilly Regions.
•	Being A Rich Source of Starch it is Used
	to Prepare a important food produck known as Sago.
	as Sago.
-	Vascular blue lining or "Vascular Streaking" is present in Cassave.
	is present in case on
	Cassava is also known as Tapioca.

About Varielies y Cessara

- 1) (0.1: Tubers are brown colornel with white flesh
- 2) co. 2: yellow flesh
- 3) Sreevisakan: Released from CTCRI
 - Skin creamy with white yellow flesh
 - ond 25-27% Starch.
 - 4) Sree Sahya: Tuber Medium Bize

 Contain 29-31-1-st erch

 and Resistant to Cassava

 Mesaic Virus (C.M.V).
- 5) Sree Prakash: Farly Variety Resistant to Cercospora leaf Spot

	Date 7-1091.LS
	About Varieties of Cassara.
6.	Spee Harsha: trip loid clone from spee sahya
	contains maximum starch
I NO HOLL	Spee Harsha: triploid clone from spee sahya contains maximum storch (39.05.12) or (38-41.1-)
	Suitable for industrial Purposes
7.	Sree Jaya: Short duration Variably Starch content > 24-27-1
	Sree Jeya: Short duration Variety Stareh content is 24-27-1-
8.	Sree Vijaya: Flesh colour is light Jellow Atter contains And etarch content
	Medical Conting the
	27-30 °/2
~	1000
4	

S.N: Amorphophallus campanulatur

C-N/hoadName: Suran, Zamikond

family: Areceae

4h2 28-

Short duration lewisch

stand cooking the Standard Louis

	Ex. 10.4
Aim?	To study the description of Elephant Foot Yam.
Introduct	m: It is a tropical tuber crops. It is a perennial
	Merbaceous flont onel Mainly grown in the states of A.P., Gujorat, Biher, W.B., U.P.
V	Corms are used as a vegetable and freparation as pickles. It is also a Rich source of Vitamin and Hinerals.
	ASS A POST-35
V	They also contain Calaium exaletes which imports and cause initation in Mouth and Throat.
	coulse initation in Mouth and Th not.
V	The Genus Amorphophallus companulatur
	The Genus Amorphophallus companulatus A · variabilis , A · ontophyllus , A · nivien
V	Elephant foot yarn is popularly known as csuran or Jiminama'.
	CSUY an or Jiminuma.
V	Economiz yield by Suran is obtained from command connects.
	and contrets.
1/	Com to lorge trace there mans apprichity
-	Smooth Corm type Have more acridity Elephont foot yern is recommended for file disease
V	Bile dipone
	18 CEO WIEGE

1) Gazendra. Corms que Large, Black in Colour and easily cooled and low in aen'dity. field is about 500-800 g/heek It is Widely cultivated in south India and field about to ton he theet Comtragachi - Com rough, small and have more tuber gield is about 506-700 9 (heet (4) Sree ladma - Developed by CTCRT Meetiner
in 8.9 in onting and y'eld about 3) Sree Atning - It is a Hybrid Cultiver . It is a Cross between (Sie Padma X AM-4 Bidhan kusum N arendra Asha

		WIBD WRITEWELL
		Date
	Exercise 5.	Page
Object:	To calculate Cost of Cultivation and	Benelit Cost Rubia
0	ad fortato par () ha ason	surgic case 1400
	To Calculate Coest of Cultivation and ay Potato per I ha area,	
	Const as Coultwooding	
	Cost of Cultivation	
	Input Unit	Rale (#1)
		1 1 1 1 1 1 1
	Plem ted_ 2 kg	20 m V /2
	Plemted 20 kg Tuber 1 kg = 10 tuberr	20,00 × 60 20,000 ₹
	1 Kg = 10 tuber	20,000 7
	Fym 1kg = 45	7-41-
	FYM 1kg = 45	258×45
	7509	= 112507
	Vrea 110 kg N	
	1 kg Urcq 25:41 7	1470.27
	Vren 110 kg N 1 kg Vren 25:41 7 Votel 271.8 kg.	
	DAP 96 kg 1,05	
	1kg - 22.7 7 Total 195kg.	4426.57
	7 tal 1904	
	J.	

MBD WRIT	EWELL

MOP 90 kg k20

2400 F

l'esticides fendine tribin) 1.5L

450 F (154)

Operation.

- A Preparation tillage with 3 ploughing followed

 By the 20 labour

 3 plomchings
- B) Application of fym lo labour
- Application of Fertilizer 7 leabour
- D Pregeration of Bells and Sorging of seeds 35 Labour

field. 200 9/ha Benegit Cert = 240,000 - 76,596 = 163,484

	Date
(e)	Interculture with I Hoeing ond farthing up 4 40 labour
F	Irrigation (Two) — 5 labour. Plant protection (with) — 7 labour neurone (3spray)
	Houvesting — 1 40 Labour
	To tal labour+ 164 To tal charge of labour -+ 7 24,000
	Transportation - + 7 4800
	Total Charge = 36,600 + 39,996.7 (Total Caborit Prochot Promport) (celt of Infect of July Infect

Himen

Exercise. 6.

0,000
Object: To study the Vagreties a Pott
Object: To study the Varieties ay Potato
1) Indian Patato Vasutos
1) Indian Potato Variebres.
Farly Variety 70-80 days.
Madicum C 12
Meelium 90-100 days
Rectium 90-100 days hate 100-110 days
Farly Maturing Verieties : Kujew Chandramuch
Early Maturing Verieties: Kujew Chandramuchi kujew Jawahan
Keyri ashoka
kujori Sors you
keljen lærkar
Medicam Maturity Varieties: Kuyaci Jyoti
kayer roti
Kulgei Badshah
Late reaturing ? kujui Sindhuri
The state of the s
keyeri kishem keyeri Sapel
The same of the sa

Exercise

Page 24 11/15

objective: To Study the Varieties of Ylam Variebres & Rybrids of Dioscorea Spp. Descrea equilente (Lesser your) a) Sreelate: Tuber lorge Spindle Shaped,
Skin brown, with fleshy creamy
white glesh contain 18:4 % stassh Crop Ready in 220-240 days. Y'eld + 220 - 270 9/ha Sree Kale: Tuber Smooth & good Cooking quelity. Harrest: 240 days, Gield - 2009/ha Il Diescorea aleta (Greater Youn) (9) Sree Kirthi Lubers Spinolle Shaped &

flesh white.

Starch - 20-29 %

MBD WRITEWELL	
Date	
Page	

Hasvest	-	270-300 drys
gield	-	300g lha

Eree Rupe -e Tuberr Medium Sized

irregular shapped, Stasch - 70-901
L 1:2-1- protein, Crop dura bin-220-230

Gield - 250-300 g / ha

Spee Shilpa-t Ist Hybrid ay Greater Yam

and it is messed between

DAL-40 x Spee Kirthi

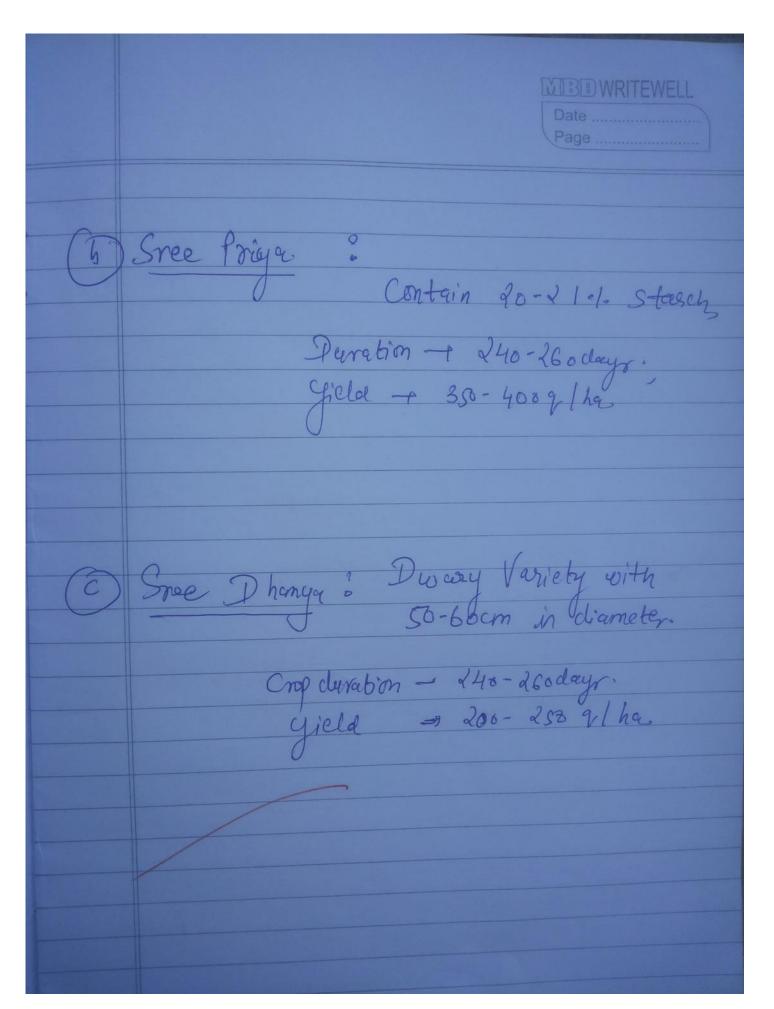
Harvest - 220 - 240 days

Dioscorea rotundata (white yam)

Sree Subhre?
Tubers Cylindrical

Starch - 20-21:4,

Yield- 366-4009/ha



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