CHARACTERISTICS OF AVAILABLE CROP VARIETIES

The characteristics of the available crop varieties, including <u>Hybrid maize</u>, OP maize, Rice (Lowland/Upland), Soyabean, Cowpeas and vegetables are hereby enclosed for your guidance.

CROP CHARATERISTICS AND ECOLOGICAL ADAPTATION

Table 1: Maize Hybrids

Characteristics	Oba Super 1	Oba Super 2	Oba 98 (QPM) Top cross	
Hybrid type	Top cross	Single cross		
Grain colour/type	White, semi-flint	White, semi-flint Yellow, semi-flint		
Adaptation	Forest and Savanna	Forest and Savanna	Forest and Savanna	
Prolificacy	Good	Good	Excellent	
Days to maturity	118 days	110 days	105 days	
Resistance to lodging	Good	ood Very Good		
Plant Height (cm)	175	180	190	
Ear Height (cm)	100	100 110		
Resistance to rust/blight/streak	Moderately resistant	Moderately resistant	Resistant	
Yield (Ton/Ha.)*	5-7	5-7	6.0 - 8.0	
Special characteristics	High yielding potential, tolerant to Striga and weevil	Downy mildew resistant (DMR), Nitrogen use efficient	Prolific with heavy long cobs	
Grain quality	Very Good	Very Good	Higher nutrient (QPM)	

Table 2: REGISTERED AND RELEASED PREMIER SEEDS' PROPRIETARY HYBRIDS(2009)

HYBRID INFORMATION	OBA SUPER 3	OBA SUPER 4	OBA SUPER 5	
Hybrid Type	Single Cross	Single Cross	Single Cross	
Kernel Colour	White	Yellow	White	
Kernel Type	Flint	Flint	Flint	
Photoperiod	Neutral	Neutral	Neutral	
Days to mid-silking	60	59	60	
Maturity date	100 - 110	100 - 105	100 - 110	
Adaptation	Rain forest, southern &	Rain forest, derived	Southern, northern &	
	northern Guinea savannas	savanna &southern	sudan Guinea	
		Guinea savannas	savannas	
Plant Height (cm)	190 - 200	185 – 195	190 - 200	
Ear Height (cm)	85 - 95	90 - 95	90 - 95	
Pest / Disease Tolerance	Tolerant to the major diseases of maize, e.g., maize streak virus, downy mildew, rust, leaf blight and <i>curvularia</i> leaf spot	Tolerant to the major diseases of maize, e.g., maize streak virus, downy mildew, rust, leaf blight and <i>curvularia</i> leaf spot	Tolerant to the major diseases of maize, e.g., maize streak virus, downy mildew, rust, leaf blight and <i>curvularia</i> leaf spot	
Potential Yield	7-8	6-7	8-9	
(tons / hectare)	7 0	0 /	0)	
Outstanding Characteristics	High yield; more adapted to rain forest ecology; amenable to manual harvesting; has excellent husk cover which makes it less prone to ear rot.	More adapted to the rain forest ecology; High Yield.	Highly prolific, expressed in good yield; more tolerant to lodging; excellent plant and ear aspect; more suitably adapted to mechanized harvesting; shining, attractive, creamy- white seeds; drought tolerant.	
Nutrient Content	9.28 % MC Flour; 1.55 % Ash; 4.95 % Fat; 3.25 % Sugar; 72.50 % Starch; 23.45 % Amylose; 11.36 % Protein	9.11 % MC Flour; 2.04 % Ash; 8.27 % Fat; 4.45 % Sugar; 70.58 % Starch; 22.61 % Amylose; 11.37 % Protein	8.92 % MC Flour; 1.69 % Ash; 4.50 % Fat; 2.84 % Sugar; 73.05 % Starch; 22.39 % Amylose; 12.13 % Protein	

Table 3 REGISTERED AND RELEASED PREMIER SEEDS' PROPRIETARY HYBRIDS (2009)CONTINUE

HYBRID INFORMATION	OBA SUPER 6	OBA SUPER 7	OBA SUPER 9
Hybrid Type	Single Cross	Three-way Cross	Three-way Cross
Kernel Colour	Yellow	White	White
Kernel Type	Flint	Flint	Flint
Photoperiod	Neutral	Neutral	Neutral
Days to mid-silking	60	59	59
Maturity date	100 - 105	100 - 105	100 - 105
Adaptation	Southern, northern & sudan	Northern & sudan	Derived & southern
	Guinea savannas	Guinea savannas	Guinea savannas
Plant Height (cm)	180 - 195	160 - 170	165 - 170
Ear Height (cm)	85 - 95	85 - 90	75 - 80
Pest / Disease Tolerance	Tolerant to the major diseases	Tolerant to the	Tolerant to the
	of maize, e.g., maize streak	major diseases of	major diseases of
	virus, downy mildew, rust, leaf	maize, e.g., striga,	maize, e.g., striga,
	blight and <i>curvularia</i> leaf spot.	maize streak virus,	maize streak virus,
	Bio fortified with Pro-Vitamin	downy mildew, rust,	downy mildew, rust,
	А.	leaf blight and	leaf blight and
		curvularia leaf spot	curvularia leaf spot
Potential Yield	7 - 8	4, under striga	3.5, under striga
(tons / hectare) Outstanding Characteristics		infestation Highly <i>striga</i>	infestation Striga resistant;
	Guinea savanna, northern Guinea savanna and Sudan savanna ecologies; high yield; drought tolerant; low soil nitrogen-efficient; excellent plant and ear aspect.	resistant; more adapted to northern Guinea savanna and Sudan savanna ecologies; drought tolerant; low soil	more adapted to the derived savanna and southern Guinea savanna; supports low <i>striga</i> emergence;
		nitrogen-efficient; supports low <i>striga</i> emergence; high yield potential; good for sole cropping and rotation with legumes (integrated <i>striga</i> control); high starch content.	good for sole cropping and rotation with legumes (integrated <i>striga</i> control)
Nutrient Content	9.06 % MC Flour; 1.44 % Ash; 5.68 % Fat; 2.96 % Sugar; 72.88 % Starch; 23.27 % Amylose; 9.54 % Protein	10.95 % MC Flour; 1.58 % Ash; 5.06 % Fat; 2.21 % Sugar; 80.46 % Starch; 22.07 % Amylose; 10.73 % Protein	10.54 % MC Flour; 1.69 % Ash; 5.44 % Fat; 3.14 % Sugar; 71.22 % Starch; 21.37 % Amylose; 10.77 % Protein

Table 4: <u>Open-pollinated varieties</u>

Characteristics	EV-99-DT-STR	TZE COMP.3 DT	OBATANPA (QPM)
Grain colour / type	White / Yellow, semi-flint	White	White, opaque semi- flint
Adaptation	Forest, SGS*, NGS** and Sudan savanna	Forest, SGS*, NGS** and Sudan savanna	Forest and savanna
Maturity status	Extra-early	Early	Early
Days to maturity	70 - 80	90 - 100	85 - 90
Ear Height (cm)	60 - 65	60 - 75	90 - 100
Resistance to	Resistant	Resistant	Resistant
rust/blight/streak			
Yield (Ton/Ha.)***	3.5 - 5.0	3-4	3 – 4.5
Special	Good as a second crop in	Drought tolerant	Quality protein
characteristics	the forest ecology; thrives		maize
	well in the drier ecologies		
	(>600mm rainfall), Drought		
	tolerant		
Grain quality	Very good	Very good	Very good

*SGS = Southern guinea savanna; **NGS = Northern guinea savanna; *** Depends on good filed management

CROP CHARATERISTICS AND ECOLOGICAL ADAPTATION CONT.

SOYBEAN

Characteristics	TGX 1448-2E
Plant type / Vigorous	Compact / Erect
Maturity	Early
Crop Duration	105 – 115
Adaptation	Forest / Savanna
Lodging	Low / Tolerant
Plant Height (cm)	55 – 60 cm
Level of shattering	Resistant
Seed color	Bright cream yellow
Seed viability	Very good
Disease resistance (Leaf spot)	Moderately resistant
Yield (Ton/Ha.)	1.5 – 2.5

COWPEAS			
Characteristics	IT- 90K – 277 - 2	IT -89KD – 288	IT- 93K- 452 - 1
Seed color	Medium white seeds	Large white seeds	Medium white seeds
Flowering type	Non-photosensitive	Photo-sensitive	Non-photosensitive
Maturity	Medium	Late	Early
Crop Duration	75 – 80 days		60 days
Adaptation	Savanna	Savanna	Forest & Savanna
Lodging	Resistant	Resistant	Resistant
Insecticide Spray	2-3 sprays before	2-3 sprays before	2-3 sprays before
regime	flowering and podding	flowering and podding	flowering and podding
Insect resistance	Moderately resistant to	Moderately resistant	Moderately resistant to
	aphids, thrips, bruchid	to aphids, thrips,	aphids, thrips, bruchid
	and nematode	bruchid and nematode	and nematode
Yield (Ton/Ha.)	1.5 tons / ha	1.5 tons / ha	1.5 tons / ha
Outstanding	Does well without	Dual purpose (fodder	Dual purpose (fodder
characteristics	insecticide sprays	and human	and human
		consumption)	consumption)

CROP CHARATERISTICS AND ECOLOGICAL ADAPTATION OF

VEGETABLES

Crop	Variety	Salient features	Planting	Seed Rate	Duration	Yield
			season	(kg/Ha)	(days)	(T/Ha.)
Tomato UC 82B	UC 82B	Early,	Dry and wet	0.4 - 0.6	125	30 - 35
		determinate	seasons			
		type, firm				
		square-shaped				
		red fruit with				
	good keeping					
		quality				
Tomato	Roma VF	Early,	Dry and wet	0.4 - 0.6	126	30 - 35
		determinate	seasons			
		type, firm pear-				
		shaped red fruit				
		with good				
		keeping quality				
Onions	Red Creole	Large, globose	Dry and wet	6-8	150	10 - 12
		bulbs with	seasons			
		pinkish skin,				
		has $4-6$				
		months				
		storability				
Cucumber	Market More	Early, vigorous,	Dry and wet	2.5 - 3.5	55	7 - 10
		suitable for	seasons			
		open field				
		production.				
		Fruits are long				
		and dark green				
Water	Sugar baby	Early, 4 -5 kg	Dry and wet	2.5 - 3.5	85	25 - 30
Melon		fruit with dark	seasons			
		green rind and				
		bright red flesh				
Okra	Clemson	Very early,	Dry and wet	2.5 - 3.5	55	4 - 6
spineless		productive,	seasons			
	1	bright green,				
		pentagonal				
	tapered pod					
Carrot	Nantes	Long blunt root	Dry and wet	5-6	75	8 - 10
	1 (unice)	of orange	seasons		,.	5 10
		colour, good for	50050115			
		eating raw and				
		vegetable				
		-				
		purposes				