PORIM SERIES 1 - PORIM ELITE OIL PALM PLANTING MATERIALS

by: KUSHAIRI A, RAJANAIDU N, JALANI B S AND MOHD ISA Z A



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PORIM INFORMATION SERIES

AVROS

pisiferas

· High bunch

Nigerian pisiferas

• Dwarf

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urrent oil polan planting naterials grow at a rate of 40 –75 on ty. The palms are too tail after 20 years and harvesting is difficult. Breeding for-short oil palms is one of the main priorities. PCRIM has developed PORIM in Polanting the Polanting of the main priorities. PCRIM has developed PORIM in Polanting the Polanting in Polanting the Polanting in Polanting the Polanting in Polanting the Polanting in Polanting in

Scheme 1:

- Nigerian duras
 Dwarf
 High bunch
 - number

PS 1.0 (Commercial DxP)

Scheme 2:

• High bunch weight

• High bunch number PS 1.1 (Commercial DxP)

Seven dura families from PORM-Nigerian germplasm collection were uselected an mother pains of PORMs collection were uselected an ember pains of PORMs have also been distributed to members of the industry. Outstanding down PORMs-Nigerian towers from the collection were crossed with the industry Delt dirac for germplasm van node for high FFB and dwarfness. Nigerian tower polins involved in the crossings were selled to PORMS Sergies II (1981). Delt dirac vs. PORMS Nigeria II (1981). Delt dirac vs. Outputed vs. PORMS Nigeria II (1981). Delt dirac vs. Outputed vs. PORMS Nigeria III (1981). Delt dirac vs. Outputed vs. PORMS Nigeria III (1981). Delt dirac vs. Outputed vs. Port of vs. PORMS Nigeria III (1981). Delt dirac vs. Outputed vs. Port of vs. Port o



Harvesting difficulty for current planting materials. PS1 can prolong the economic life of oil palm by lengthening replanting period.

and the palms are at least 30 % shorter than the Deli x AVROS control.

SPECIAL CHARACTERISTICS OF PS1

- Dwarf. Slow height increment (20 45 cm/yr).
- High fresh fruit bunch (FFB) yield (30 33 t/ha/yr).
 High oil to bunch (O/B) ratio which is about 28 %.





TABLE 1. PORIM- NIGERIAN DURA FAMILIES SELECTED FOR HIGH YIELD AND LOW HEIGHT INCREMENT.

Family	FFB 10 3T		BNO (No./p/yr)	ABWT (kg)	Height increment (HD)	
	(kg/p/yr)	(t/ha/yr)	(тогруг)	(AB)	(cm/yr)	
1	204	30.3	30.3 20 10.08		16	
2	217	32.2	17	13.63	15	
3	226	33.5	13	17.64	19	
4	207	30.7	19	11.94	15	
5	211	31.3	17	12.28	18	
6	225	33.4	22	10.46	18	
7	218	32.3	23	9.92	19	

FFB=fresh fruit bunch, BNO=bunch number, ABWT=average bunch weight.

TABLE 2. PERFORMANCE OF DELI DURA X PORIM-NIGERIAN TENERA
IN SUNGAI TEKAM. PAHANG.

Progeny	Pedigree (URD x NGA)	FFB (kg/p/yr)		O/B (%)	K/B (%)	HI (cm/yr)
	(UKD YNGA)	1992 - 1997	1997	(%)	(%)	(cm/yr)
DT 5	FK 41 x 150/1269 (10-15)	158.8	211.8	28.0	5.0	46
E 23	FK 41 x 150/3207 (19-06)	170.0	218.5	27.5	4.1	42
E 25	FK 40 x 150/3207 (19-06)	172.3	230.3	25.7	5.0	44
E 27	GA 27 x 150/1791 (18-08)	153.9	224.8	27.7	3.9	46
E	29 FR 48 x 150/2793 (9-03)	169.0	230.4	28.2	5.1	45
DxP			180.0	25.0	4.0	75

Planted in 1989/90. URD=Ulu Remis Dura, NGA=PORIM-Nigerian germplasm. FFB=fresh fruit bunch, O/B=oil to bunch, K/B=kernel to bunch.

COMMERCIALIZATION OPPORTUNITY

Lease of dura mother palms. DxP germinated seeds.

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For more information kindly contact:

Director-General
PORIM
P. O. Box 10620
50720 Kuala Lumpur, Malaysia.