Comparison of Grain Yield and Dry Matter of Hybrid Corns Crossed among CNU and SK lines

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Objectives

This study was carried out to select a superior hybrid corn with high grain yield and dry matter among hyrids crossed reciprocally with CNU and SK lines at Chungnam National University in 2003.

Materials and Methods

- Materials : F_1 hybrid corns crossed reciprocally among CNU and SK lines.
- Methods -Planting dates - May 25. 2003 .-Planting density : 60×30cm
  -Fertilization level ($N-P_2O_5-K_2O$: 20-10-10 kg/10a)

Results and Discussion

Hybrids used were higher than check in some agronomic characteristics such as stem height (A and E,) fresh weight (A, B and E), ear length (A and C) and number of ears per plant (A, B and D).

Table. Comparison of the major agricultural characteristics in seven corn hybrids.

Characteristics / Hybrids	Stem ht.(a) (cm)	Ear ht.(b) (cm)	Stem dia. (mm)	Nodes (no.)	Fresh(g)		Dry(g)		b/a (%)	Harvest index	Stay green
					Culm+ Leaf	Ear	Culm+ Leaf	Ear			
A	243.3	95.7	30.6	11.3	693.3	540.0	180.0	199.2	39.3	52.5	5
B	227.0	71.7	23.8	9.3	710.0	583.3	230.0	126.8	31.6	35.5	5
C	232.7	67.6	81.2	12.3	586.7	426.7	220.0	203.5	29.0	47.9	1
D	226.3	88.0	28.1	12.0	493.3	443.3	166.7	134.3	38.9	44.6	5
E	238.7	107.3	23.4	12.0	663.3	430.0	261.7	128.0	44.9	47.2	1
F	225.3	98.3	23.7	17.3	383.3	356.7	295.0	161.7	43.6	54.8	1
Check+	228.3	84.3	23.1	16.7	663.3	340.0	243.3	179	36.9	42.4	1

+ Kanganok

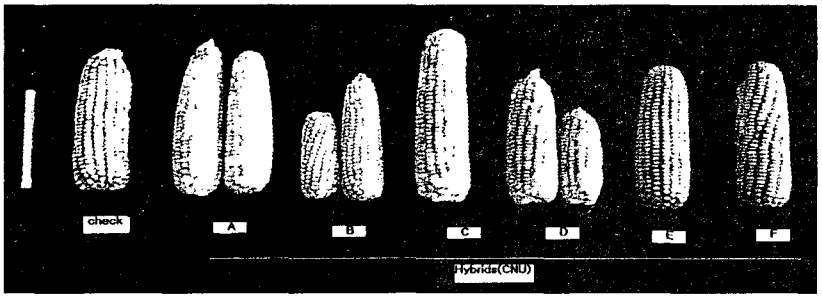

Fig. Comparisons of the ear length and diameter of the seven corn hybrids. Among these hybrids, A, B and D hybrids shown two ears per plant.