

Table 1. Several agronomic characteristics of naked barley and hulled barley varieties tested

Variety	Maturing date	Stem length (cm)	No. of grains per spike	No. of spikes per m ²	1,000 grains weight (g)	Yield (kg/10a)
Nulsaalbori (Naked barley)	Apr. 30	73	60	508	34.3	430
Tabgolbori (Hulled barley)	Apr. 25	76	51	545	33.4	417

□ Sowing date : Oct. 27, 1988

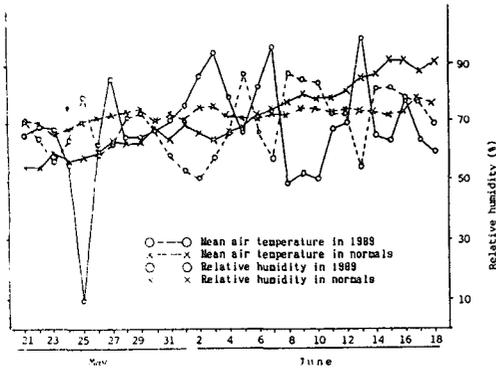


Fig. 1. Changes of mean air temperature and relative humidity at around harvesting time of two barley varieties tested (harvesting date : Nulsaalbori : May 30, Jun. 4 and Jun. 11; Tabgolbori : May 30, Jun. 4, Jun. 11 and Jun. 14)

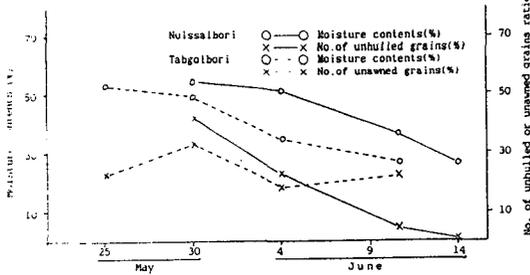


Fig. 2. Changes of moisture content of grains and variation of unhusled or unawned grains at harvesting time

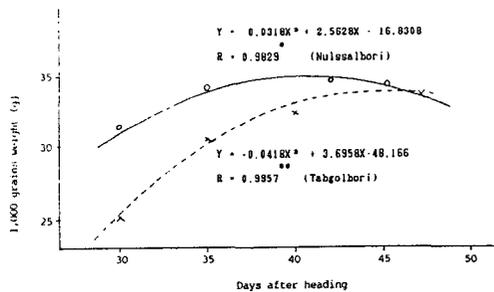


Fig. 3. Difference of 1,000 grains weight according to harvesting time

Table 2. Hulls weight ratio and number of unhusled grains ratio according to the hulling times

(Variety : Nulsaalbori)

Harvesting time (after heading)	Weight ratio (%)				No. of unhusled grains ratio (%)			
	Hulling times				Hulling times			
	0	1	2	3	0	1	2	3
30 days	3.52	0.90	0.23	0.11	41.0	17.1	6.5	1.3
35 days	1.99	0.33	0.08	0.01	22.7	4.5	1.0	0.4
42 days	0.21	0.08	0.05	0.04	2.5	0.9	0.3	0.0
45 days	0.07	0.03	0.02	0.01	0.5	0.1	0.0	0.0

□ Unhusled grains were cleaned by winnowing sows as Table 3 and 4

Table 3. Awns weight ratio and number of unawned grains ratio according to the deawning times

(Variety : Tabgolbori)

Harvesting time (after heading)	Weight ratio (%)				No. of unhusled grains ratio (%)			
	Deawning times				Deawning times			
	0	1	2	3	0	1	2	3
30 days	1.03	0.59	0.42	0.27	22.9	14.04	10.86	4.81
35 days	0.85	0.32	0.18	0.09	32.9	7.24	5.52	0.81
40 days	0.59	0.26	0.13	0.08	18.7	7.79	4.27	1.41
47 days	0.42	0.21	0.10	0.06	22.5	16.4	8.70	6.15

□ Unawned grains were calculated by criterion of below 2mm long awn

Table 4. Difference of broken seeds weight ratio on harvesting time and hulling or deawning times

Harvesting time (after heading)	Nulsaalbori (%)				Tabgolbori (%)			
	Hulling times				Deawning times			
	0	1	2	3	0	1	2	3
30(30) days	0.38	0.55	0.71	0.88	0	0	0	0
35(35) days	0.18	0.26	0.46	0.58	0	0	0	0
42(40) days	0.09	0.16	0.12	0.27	0	0	0	0
45(47) days	0.07	0.08	0.11	0.18	0	0	0	0

() : Harvesting time of Tabgolbori

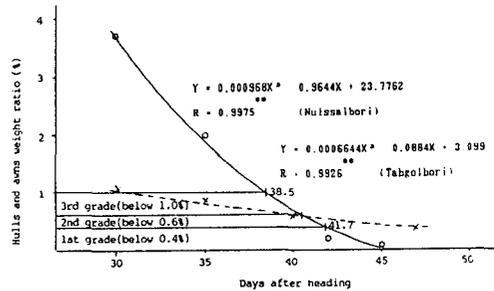


Fig. 4. Proper harvesting time according to hulls or awns weight regarded as "other matter" in the criterion of Korean Agricultural Products Inspection Office