

Table/ Heading dates, maturing dates and grain filling period of four barley varieties

Varieties	Seeding methods	Fertilizer levels (kg/10a)					
		11-8-7/N-P-K			18.5-8-7/N-P-K		
		Heading	Maturing	Grain filling periods	Heading date	Maturing date	Grain filling periods
Suwon 18	60x18	May 10	June 10	31	May 10	June 8	30
	40x18	May 9	June 9	32	May 9	June 9	31
	20x 5	May 8	June 8	32	May 9	June 7	30
	10x10	May 9	June 8	29	May 10	June 5	27
Buheung	60x18	May 9	June 9	32	May 10	June 8	30
	40x18	May 10	June 7	29	May 10	June 9	31
	20x 5	May 8	June 8	32	May 9	June 7	30
	10x10	May 8	June 5	27	May 9	June 4	27
Kangbori	60x18	May 5	June 5	32	May 5	June 4	31
	40x18	May 4	June 3	31	May 4	June 3	31
	20x 5	May 3	June 2	31	May 2	June 2	32
	10x10	May 4	May 29	26	May 6	June 1	27
Olbori	60x18	May 1	May 31	31	May 1	June 2	33
	40x18	Apr 30	May 31	32	May 1	June 3	34
	20x 5	Apr 28	May 26	29	Apr 30	May 29	30
	10x10	Apr 28	May 26	29	Apr 28	May 27	30
	60x18	May 6	June 6	31	May 7	June 6	31
	40x18	May 6	June 4	30	May 6	June 6	31
	20x 5	May 4	June 4	32	May 5	June 4	32
	10x10	May 5	June 1	28	May 6	June 2	28

Table/ Changes of grain yield(kg/10a) of barley varieties in accordance with different cultivations and nitrogen levels

Varieties	Seeding methods	Nitrogen	
		Standard	Heavy
Kangbori	60x18	453	457
	40x18	529	598
	20x 5	605	629
	10x10	681	719
	Mean	569	601
Suwon 18	60x18	457	404
	40x18	477	509
	20x 5	497	526
	10x10	567	594
	Mean	499	508
Buheung	60x18	437	368
	40x18	495	416
	20x 5	384	388
	10x10	523	431
	Mean	460	391
Olbori	60x18	429	466
	40x18	461	497
	20x 5	558	581
	10x10	613	642
	Mean	515	547

Table/ Mean squares for heading and maturing dates measured on four barley varieties grown at four different cultivations at two-fertilizer levels

Source of variation	Degree of freedom	Mean squares	
		Heading date	Maturing date
Replication(R)	2	9.8*	11.3
Variety(V)	3	480.0**	2315.0**
R x V	6	1.4	11.2
Nitrogen (N)	1	0.01	31.5
V x N	3	0.18	29.5*
Seeding method (S)	3	7.5**	168.4**
V x S	9	2.0	40.2**
C x N	3	0.2	11.0
V x N x S	9	0.3	16.0
Error	56	0.96	8.5

*** Indicates significance at 0.05 at 0.01 levels, respectively

Table/ Mean squares for grain yield per 10a measured on four barley varieties grown at four different seeding methods and nitrogen levels

Source of variation	Degree of freedom	Mean square
Replication	2	1568**
Variety	3	104868**
R x V	6	415
Nitrogen	1	36
V x N	3	13984**
Seeding method (S)	3	108287**
V x S	9	9699**
S x N	3	1525
V x N x S	9	1773
Error	56	1673

** Indicates significance at 0.01 level respectively