

Table 1. Varietal difference of emergence ratio, ratio of effective tiller and lodging under the different cultivation method in rice

Variety	Emergence ratio	Ratio of effective tiller			Lodging	
		HT ^{a/} (A)	DS ^{b/} (B)	B/A ¹⁰⁰	HT	DS
Unbongbyeo	88	72.0	50.8	71	0	7
Odaebyeo	93	72.0	64.1	89	0	7
Sobaegbyeo	81	69.8	53.2	76	0	5
Keumbyeo	93	68.0	65.7	89	0	5
Daegwanbyeo	90	70.4	4.4	57	0	0
Saengpungbyeo	93	62.8	53.9	86	0	0
Bonggwangbyeo	77	66.1	53.9	82	0	3
Daechangbyeo	85	69.2	57.3	82	0	5
Hwaseongbyeo	83	71.5	69.0	84	0	0
Seohaebyeo	68	63.3	51.9	80	0	0
Magdongbyeo	91	63.3	63.1	100	0	0
Dongjinbyeo	91	60.7	60.0	99	0	0
Tamjinbyeo	84	64.8	54.7	85	0	0
Daechongbyeo	94	65.1	47.4	73	0	0
Hwajinbyeo	69	63.4	55.9	88	0	0
Seomjinbyeo	93	61.5	58.3	95	0	0
Nongbaeg	82	73.0	56.3	77	0	9
Nonglimna #1	75	72.2	65.3	90	3	9
Sangnambatbyeo	81	73.0	58.7	80	3	9
Taebaegbyeo	91	65.1	49.2	76	0	0
Gaybyeo	98	58.4	52.9	91	0	0
Samgangbyeo	92	60.6	49.6	82	0	0
Baegunchalbyeo	78	61.6	50.8	82	0	0
Pungsanbyeo	94	52.6	46.5	88	0	0
Jangseongbyeo	90	60.6	56.4	93	0	0
Nato	95	78.2	54.9	70	0	0

Note ; HT^{a/} : Hand transplanting, DS^{b/} : Direct seeding in dry paddy

Table 2. Varietal difference of heading date and growth of maturing period under the different cultivation method in rice plant

Variety	Heading date			Culm length			Panicle length		
	HT ^{a/} (A)	DS ^{b/} (B)	A-B	HT (A)	DS (B)	B/A ¹⁰⁰	HT (A)	DS (B)	B/A ¹⁰⁰
Unbongbyeo	Aug. 6	Aug. 2	+4	71.1	55.7	78	19.5	16.6	85
Odaebyeo	Aug. 10	Aug. 3	+7	75.7	65.6	87	18.9	18.0	95
Sobaegbyeo	Aug. 4	July 28	+7	72.9	60.7	83	18.6	16.6	89
Keumbyeo	Aug. 8	Aug. 2	+6	78.9	64.1	81	19.4	19.2	99
Daegwanbyeo	Aug. 8	Aug. 3	+5	71.0	71.5	101	18.8	18.2	97
Saengpungbyeo	Aug. 16	Aug. 16	0	79.7	66.4	83	18.3	17.9	98
Bonggwangbyeo	Aug. 16	Aug. 16	0	81.5	75.7	93	18.3	17.1	82
Daechangbyeo	Aug. 15	Aug. 16	-1	81.5	71.5	88	17.5	16.8	96
Hwaseongbyeo	Aug. 15	Aug. 16	-1	73.3	68.6	94	19.5	19.0	97
Seohaebyeo	Aug. 21	Aug. 22	-1	76.2	69.9	92	19.0	18.7	98
Magdongbyeo	Aug. 17	Aug. 19	-2	83.5	79.7	95	19.5	19.5	100
Dongjinbyeo	Aug. 22	Aug. 22	0	83.6	79.5	95	19.8	18.6	94
Tamjinbyeo	Aug. 25	Aug. 26	-1	78.0	75.0	96	18.9	18.9	100
Daechongbyeo	Aug. 20	Aug. 22	-2	80.0	77.8	97	20.7	17.3	84
Hwajinbyeo	Aug. 19	Aug. 23	-4	79.3	74.6	94	19.1	18.8	98
Seomjinbyeo	Aug. 24	Aug. 25	-1	82.3	82.2	99	19.0	18.1	95
Nongbaeg	Aug. 8	Aug. 10	-2	86.3	79.7	92	18.5	18.5	100
Nonglimna #1	Aug. 10	Aug. 6	+4	96.1	77.0	80	20.6	17.8	86
Sangnambatbyeo	Aug. 10	Aug. 6	+4	96.1	78.5	82	20.9	17.6	84
Taebaegbyeo	Aug. 14	Aug. 10	+4	84.7	58.0	90	21.1	20.4	97
Gaybyeo	Aug. 14	Aug. 15	-1	75.7	63.3	84	21.1	19.8	94
Samgangbyeo	Aug. 15	Aug. 20	+5	77.9	70.7	91	20.0	19.0	95
Baegunchalbyeo	Aug. 7	Aug. 7	0	74.5	62.2	83	19.2	17.4	91
Pungsanbyeo	Aug. 19	Aug. 20	-1	73.7	66.7	91	21.4	20.8	97
Jangseongbyeo	Aug. 22	Aug. 24	-2	68.1	66.1	97	21.0	20.0	95
Nato	Aug. 19	Aug. 19	0	104.7	87.2	83	21.2	19.0	90

Note ; HT^{a/} : Hand transplanting, DS^{b/} : Direct seeding in dry paddy

Table 3. Varietal difference of yield components and yield under the different cultivation method in rice plant

Variety	No. of spikelets per plant			No. of panicles per m ²			No. of spikelets per m ²			Filled grain ratio			1,000 Grain wt.			Yield		
	HT ^{a/} (A)	DS ^{b/} (B)	B/A ¹⁰⁰	HT (A)	DS (B)	B/A ¹⁰⁰	HT (A)	DS (B)	B/A ¹⁰⁰	HT ^{a/} (A)	DS ^{b/} (B)	B/A ¹⁰⁰	HT (A)	DS (B)	B/A ¹⁰⁰	HT (A)	DS (B)	B/A ¹⁰⁰
Unbongbyeo	94.9	61.5	65	314	450	143	29.8	27.7	93	91.2	85.9	94	22.9	22.9	100	492	451	92
Odaebyeo	84.8	56.7	67	314	488	155	26.6	27.7	104	88.2	87.1	99	25.8	25.2	98	504	494	98
Sobaegbyeo	86.6	72.4	84	326	410	126	28.2	29.6	105	88.3	84.4	96	21.3	21.3	100	463	452	98
Keumbyeo	98.0	64.4	66	298	488	164	29.2	31.4	108	90.0	84.2	94	21.9	21.2	97	500	472	94
Daegwanbyeo	95.2	75.5	79	295	380	129	28.1	28.9	102	95.4	90.3	95	23.2	22.9	99	499	474	95
Saengpungbyeo	82.8	69.7	84	362	403	111	30.0	28.1	94	76.1	84.1	103	23.7	23.8	100	525	497	95
Bonggwangbyeo	72.1	54.0	75	436	485	111	31.4	26.2	83	90.9	94.3	104	23.2	23.9	103	528	493	93
Daechangbyeo	71.7	55.4	77	421	463	110	30.2	25.7	85	92.5	90.6	98	23.1	23.9	103	488	460	94
Hwaseongbyeo	77.5	56.0	72	393	525	134	30.5	29.4	96	95.0	93.5	98	24.8	23.9	96	522	488	93
Seohaebyeo	82.7	81.6	99	369	403	109	30.5	32.9	108	81.7	76.8	94	20.5	20.0	98	476	446	94
Magdongbyeo	82.7	59.9	72	393	560	142	32.5	33.5	103	92.6	89.2	96	22.8	22.3	98	532	515	97
Dongjinbyeo	93.6	72.7	78	360	453	126	33.7	32.9	98	83.6	82.3	98	23.4	23.6	98	533	508	95
Tamjinbyeo	86.7	71.9	83	350	418	119	30.3	30.1	99	84.1	85.1	101	24.2	24.5	101	534	522	98
Daechongbyeo	92.3	66.7	72	350	475	136	32.3	31.7	98	92.6	89.3	96	25.0	24.0	96	546	513	94
Hwajinbyeo	87.7	73.7	84	362	463	128	31.7	34.1	108	87.8	77.6	88	21.6	21.7	100	500	465	93
Seomjinbyeo	94.3	73.9	78	369	483	131	34.8	35.7	103	82.5	85.8	103	23.1	22.3	97	576	554	96
Nongbaeg	89.4	69.5	78	336	438	130	30.0	30.4	101	88.5	85.8	97	23.3	24.0	103	508	493	97
Nonglimna #1	108.8	66.0	61	260	438	168	28.3	28.9	102	88.3	82.4	93	21.6	21.0	97	488	394	81
Sangnambatbyeo	114.8	60.2	52	257	375	146	29.5	22.6	77	83.6	82.6	99	22.9	22.3	97	491	414	84
Taebaegbyeo	88.5	67.3	76	369	425	115	32.7	28.6	87	95.5	93.4	98	21.4	21.3	100	570	538	94
Gaybyeo	115.9	79.6	69	295	425	144	43.2	33.8	99	86.8	85.3	98	23.1	23.1	100	587	572	97
Samgangbyeo	107.9	82.8	77	283	410	145	30.5	33.9	111	91.5	90.0	98	21.0	20.6	98	576	564	98
Baegunchalbyeo	98.2	57.7	59	286	425	149	28.1	24.5	87	89.2	87.6	98	22.7	22.5	99	509	477	94
Pungsanbyeo	113.5	87.2	77	295	383	130	33.6	33.4	100	91.4	89.9	94	23.7	23.4	99	606	569	94
Jangseongbyeo	96.0	76.7	80	326	450	138	31.3	34.5	110	86.7	83.9	97	24.1	23.4	97	561	536	96
Nato	130.3	96.9	74	255	333	131	33.1	32.3	98	84.1	89.5	106	19.9	20.1	101	467	433	92

Note ; HT^{a/} : Hand transplanting, DS^{b/} : Direct seeding in dry paddy