

114. 湖南地方叫什么水稻坐苗头农委叫地做向表里叫地做气培学的研究
Ⅲ栽培时期及施肥方法叫差表叫引起水稻坐苗头农委叫表里
湖南作物试验场，西南农村科学院作物试验场，金丁坤，李野成，李善龙，金维英，裴星海

Agronomic Studies on Regional Difference in Growth and Yield of Rice in the Western Area

III. The Effect of Transplanting Dates and Methods of Fertilization Application on Dry Matter Production and Yield in Rice

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試驗目的: 神農架 光山에 있어서 水稻의 散熱法을 調理하는데 由 地域的 特性에 依의한 調生育形態의 變異가 種實에 미치는 影響을 採計하여 本 試驗을 運行하였다.

材料及方法: 日本型品种之大晴田, 统一型品种之鹿鹿田, 供试 40株苗龄
分别为 30×15cm 5月25日种 6月15日测 3本为移植补苗d. 10株为施肥量之基本量
大晴田为 15kg, 鹿鹿田为 18kg 为基肥量, 灌溉量 3kg, 加量之 11kg 为通用补苗量
对照区为 增施氯化钾 10kg, 补苗量 3.000kg, 开沟 200kg 施用过熟
肥量 全层施肥量 18kg 为耕翻补苗d. 0.5m 宽条分施量之 基肥, 分蘖肥, 硬肥, 美肥量
40, 20, 20, 10% 为补苗量 加量之 美肥 70%, 硬肥 30% 为 分施补苗量 未达补苗量
以 10kg 为基肥量 分施量 补苗量 补苗量.

以上으로 광산地域에서의 窓素分佈, 특히 窓 기반適用率의 여러가지 耕地法을
改善함으로서 耕地率과 草面積增加, 肥育 pattern의 稳定화로 窓素은 增加시킬수
있음을 알게된다.

Table I. The effect of varieties and cultural methods on leaf area index and dry matter weight under different transplanting date between in Iri and in Kyungsan

VARIETY	LOCATION	LEAF AREA INDEX								DRY WEIGHT(g/m)									
		TRANS-PLANT-ING DATE		MAXIMUM TILLERING STAGE		PANICLE FORMATION STAGE		HEADING STAGE		MILKY STAGE		MAXIMUM TILLERING STAGE		PANICLE FORMATION STAGE		HEADING STAGE		MILKY STAGE	
		C	T	C	T	C	T	C	T	C	T	C	T	C	T	C	T	C	S
DAEJCHEONG	TRI	May	25	3.75	4.23	4.19	4.59	5.29	5.84	4.12	4.93	301	364	519	619	890	1044	1082	1306
		June	15	4.05	4.24	4.89	5.92	5.32	6.02	4.07	4.92	372	436	667	747	937	1058	1199	1381
		Mean		3.90	4.24	4.56	5.26	5.31	5.93	4.10	4.93	337	400	593	683	914	1051	1141	1343
-BYEO	KWANG	May	25	3.63	4.17	4.08	4.85	4.67	5.37	3.55	4.43	289	339	536	570	846	948	1004	1158
		June	15	3.93	4.43	4.00	4.81	4.24	5.07	3.04	4.12	329	425	610	672	809	952	966	1218
		Mean		3.78	4.30	4.04	4.83	4.46	5.22	3.30	4.28	309	382	573	621	823	950	985	1188
PUNGSAN-BYEO	TRI	May	25	4.19	5.68	4.98	6.51	6.35	7.44	4.73	5.54	346	453	607	819	845	1044	1229	1544
		June	15	5.31	5.98	6.11	7.02	6.19	7.15	4.60	4.57	395	481	743	821	1000	1186	1282	1576
		Mean		4.75	5.82	5.55	6.77	6.27	7.30	4.67	5.06	371	467	675	820	923	1115	1256	1560
KUANG	-SAN	May	25	3.98	4.69	4.57	6.20	5.38	6.17	4.17	5.39	319	390	612	731	816	970	1123	1303
		June	15	4.26	5.13	4.46	5.50	5.18	6.36	4.08	5.26	342	478	582	747	854	1076	1166	1315
		Mean		4.12	4.91	4.52	5.85	5.28	6.27	4.09	5.33	331	434	597	739	835	1023	1095	1309

Note: C*: Control T*:Treatment

Table 2. The effect of varieties and cultural methods on heading date, yield components and yield under different transplanting dates between 1st and 5th Aug.

ITEM.	TREATMENT	DAECHOENGBYEO						PUNGSANBYEO					
		IRI			KWANGSAN			IRI			KWANGSAN		
		MAY 25	JUNE 15	MEAN	MAY 25	JUNE 15	MEAN	MAY 25	JUNE 15	MEAN	MAY 25	JUNE 15	MEAN
Heading Dtrt.	Control	Aug. 8	Aug. 18		Aug. 8	Aug. 18		Aug. 1	Aug. 18		Aug. 3	Aug. 21	
	Treatment	Aug. 8	Aug. 20		Aug. 10	Aug. 18		Aug. 1	Aug. 21		Aug. 4	Aug. 21	
No. of panicles	Control	13.6	13.5	13.6	13.3	13.4	13.6	14.1	13.1	13.6	12.9	12.6	12.8
	Treatment	15.4	14.7	15.1	14.5	14.3	14.6	16.0	16.6	16.2	14.7	14.5	14.6
	(13)	(9)	(11)	(9)	(7)	(8)	(13)	(25)	(19)	(14)	(15)	(15)	(15)
No. of spikelets per plant	Control	95	95	95	87	85	86	110	115	113	102	102	102
	Treatment	92	94	93	88	88	88	105	99	102	105	102	102
	(-2)	(-1)	(-2)	(1)	(4)	(3)	(-5)	(-14)	(-10)	(3)	(1)	(1)	(-2)
No. of spikelets per m ² (X103)	Control	28.6	28.3	28.5	25.7	25.3	25.5	34.6	33.3	34.0	29.1	28.9	28.8
	Treatment	31.3	30.7	31.0	28.5	28.0	28.6	37.3	36.1	36.7	34.2	33.1	33.7
	(9)	(8)	(9)	(11)	(11)	(11)	(8)	(8)	(8)	(8)	(18)	(16)	(17)
Filled grain ratio(%)	Control	92.2	88.2	90.2	92.1	93.1	92.6	85.5	83.4	84.5	85.3	84.6	85.0
	Treatment	90.3	87.2	88.8	92.1	91.1	91.6	85.1	82.4	83.8	85.6	85.6	85.6
	(-2)	(-1)	(-2)	(0)	(-2)	(-1)	(-5)	(-1)	(-1)	(0)	(1)	(1)	(1)
I.000 grain weight(g)	Control	24.3	24.3	24.3	23.6	23.6	23.6	22.5	21.3	21.9	22.9	20.9	21.9
	Treatment	24.6	24.6	24.6	24.3	24.0	23.7	22.6	21.6	22.1	22.6	21.6	22.1
	(1)	(1)	(1)	(-1)	(2)	(1)	(0)	(1)	(1)	(1)	(-1)	(3)	(1)
Yield (kg/10m)	Control	523	538	531	457	436	447	598	581	590	555	507	531
	Treatment	573	586	580	526	496	511	657	644	651	601	543	572
	(10)	(9)	(10)	(15)	(14)	(15)	(10)	(11)	(11)	(8)	(7)	(9)	(9)

() indicate the increase percentage in treatment.

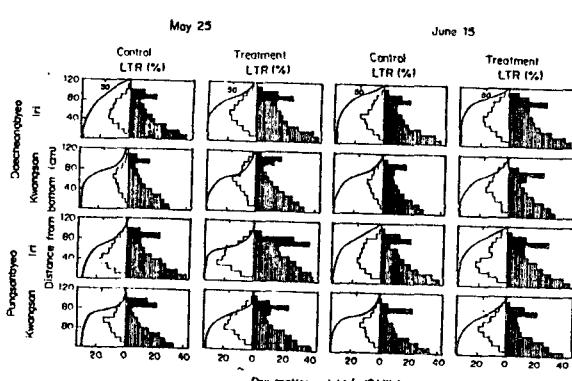
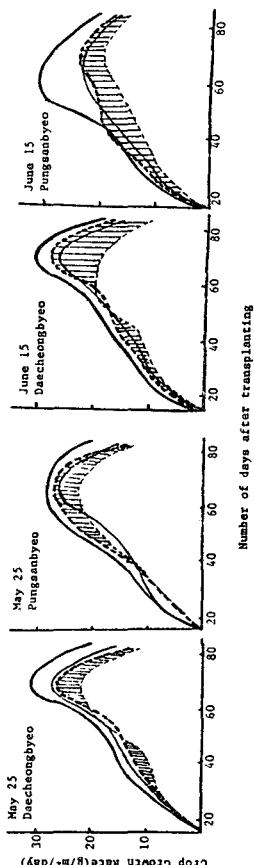


Fig. 2. Productive structure of Daecheongbyeo and Pungsanbyeo transplanted at May 25 and June 15 under different condition in the Iri and Kwangsan areas.

Note: ■: Particle □: Leaf blade ■: Culm and leaf sheath
LTR: Light transference rate



changes in CCR through the growth duration of the rice plant under different cultural methods between Iri and its Kengsen

Fig. 1.