택사 품종의 주요 양적형질의 변이

권병선 · 신종섭[1] · 박희진[2]
순천대학교 농업생명과학대학, [1]여수시 농업기술센터, [2]서강정보대학

Variation of Quantitative Charecters in *Alisma plantago* Cultivars

Byung Sun Kwon · Jong Sup Shin[1] · Hee Jin Park[2]
College of Agriculture and Life Sciences, Suncheon National University
[1]Yosu Si Agricultural Development and Technology Center
[2]Seogang College

시험목적

남부지역의 벼후작 택사 재배에 알맞는 택사 우량 품종을 선발하고자함.

재료 및 방법

○공시재료 : 선월 재래종외 8품종
○묘상파종기 : 7월 30일
○본답이식기 : 8월 20일(20일 육묘구), 8월 30일(30일 육묘구),
9월 10일(40일 육묘구)
○시비량(kg/10a) : 기비-퇴비 2,000kg
복합비료(21-17-17) 100kg
추비 : 요소 100kg
(이식후 30일에 50+이식후 60일에 50)
○기타 : 생육특성, 수량구성요소 및 수량 등

결과요약

○본답에서의 초장은 선월종이 56cm, 49cm, 46cm로 어느 품종들보다도 어느 처리에서나 길었다.
○본답에서의 엽수 역시 선월종이 20cm, 16cm, 15cm로 어느 품종들보다도 어느 처리(20일 묘상, 30일 묘상, 40일 묘상)에서나 많았다.

○수량성 또한 선월종이 346.4kg, 318.6kg, 307.3kg으로 어느 품종들보다도 어느 처리에서나 높았다.

Table 1. Origin and major character of *Alisma plantago* varieties used in the experiment.

Variety	Origin	Flowering date	Harvesting date
Sunwol Local	Korea	Sep. 16	Nov. 25
Haeryong Local	Korea	Sep. 18	Nov. 27
Buylryang Local	Korea	Sep. 20	Nov. 29
Gusang Local	Korea	Sep. 19	Nov. 28
Nakan Local	Korea	Sep. 20	Nov. 29
Songkwang Local	Korea	Sep. 23	Nov. 29
Yongjun Local	Korea	Sep. 24	Dec. 3
Weseo Local	Korea	Sep. 25	Dec. 4
Juam Local	Korea	Sep. 25	Dec. 5

Table 2. Nursery period.

No.	Nursery period(days)	Sowing date	Transplanting date
1	20	July 30	Aug 20
2	30	July 30	Aug 30
3	40	July 30	Aug 10

Table 3. Major agronomic character and varietal difference of floral axis under nursery period in *Alisma plantago* cultivated after early maturing rice cropping.

Nursery period (days)	Variety	Nursery			Main field		
		Plant height(cm)	No. of leaves	Floral axis	Plant height(cm)	No. of leaves	Dry root yield(kg/10a)
20	Sunwol	13.5	3.9	2.5	56	20	346.4
	Haeryong	11.7	4.3	2.9	52	19	308.2
	Buylryang	12.9	4.1	3.0	51	15	324.6
	Gusang	11.5	3.6	3.2	54	17	311.8
	Nakan	10.2	3.8	3.1	50	17	302.9
	Songkwang	10.0	3.5	2.7	49	16	298.8
	Youngjin	10.8	3.4	3.1	52	17	295.4
	Weseo	10.0	3.3	3.2	48	17	288.2
	Juam	9.5	3.1	3.1	47	15	279.8
	Mean	11.1	3.7	3.0	51	17	306.2
30	Sunwol	22.5	8.4	3.8	49	16	318.6
	Haeryong	22.4	7.5	3.5	47	15	311.3
	Buylryang	19.3	6.0	3.5	48	16	308.8
	Gusang	21.7	8.3	3.7	48	15	301.7
	Nakan	21.5	8.4	3.8	46	14	295.5
	Songkwang	20.3	6.0	3.8	47	14	293.3
	Youngjin	20.5	7.2	4.0	46	14	300.0
	Weseo	18.8	7.1	4.1	45	13	291.4
	Juam	19.5	7.1	3.9	46	13	281.8
	Mean	20.7	7.3	3.8	47	14	300.3
40	Sunwol	25.8	9.5	5.4	46	15	307.3
	Haeryong	28.9	11.0	5.6	44	15	301.1
	Buylryang	28.7	10.1	5.5	43	13	298.4
	Gusang	24.3	8.8	5.7	44	14	301.3
	Nakan	25.6	10.2	5.7	43	13	289.5
	Songkwang	27.6	9.6	5.6	41	13	291.4
	Youngjin	24.8	8.5	6.0	40	12	281.3
	Weseo	24.3	9.5	5.8	40	13	279.9
	Juam	26.1	8.7	5.9	38	12	288.1
	Mean	19.3	6.8	4.2	47	15	299.9
	Total mean	26.2	9.5	5.7	42	13	293.1
	LSD(0.05)	10.2	5.4	3.1	11	14	102.3

Table 4. Correlations between floral axis and other agronomic characters.

Characters	①	②	③	④	⑤	⑥
Nursery Plant height (cm) ①	-					
Nursery leaves number ②	0.9788**	-				
Plant height(cm) ③	-0.7615**	-0.7670**	-			
No. of leaves ④	-0.6839**	-0.6939**	0.7562**	-		
Dry root yield (kg/10a) ⑤	-0.4303*	-0.4525*	0.5083**	0.3661*	-	
Floral axis ⑥	0.8719**	0.8817**	-0.8801**	-0.6565**	-0.4919**	-

*, ** : Significant at 5 and 1% level, respectively.

Table 5. Analysis of variance for yield and agronomic character.

Factor	df.	Nursery			Main field		
		Plant height(cm)	No. of leaves	Floral axis	Plant height(cm)	No. of leaves	Dry root yield(kg/10a)
<Main plot>							
Replication(R)	2	3.53	0.27	0.32	178.11	63.63	386.47
Nursery period(N)	2	539.59**	79.58**	0.62	19.44**	4.93**	350.89**
Error(a)	4	4.98	0.41	0.56	1.57	0.93	45.97
<Sub plot>							
Variety group(Vg)	2	6.46	0.27	0.32**	32.44**	9.15**	1597.55**
Vg × N	4	3.14	0.21	0.01	0.22	0.59**	26.84
Error(b)	12	4.15	0.44	0.01	1.56	0.15	94.08