

연교 신품종 “連庭”

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New Cultivar “Yeonjeong” of Medicinal Forsythia

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Forsythia viridissima LINDL. is a fruit bearing forsythia and its fruits are used as medicine. Uisong Medicinal Plant Experiment Station, Gyongbuk A. T. A. has collected 7 lines of them in Korea since 1993. Among them, 2 lines were selected as highly fruit yielding lines and got through the yield test, regional adaptation test and farmer's field test. Finally, “Yeonkyo 1”, one of the two lines was registered as a excellent new cultivar by committee of new cultivars, and named as “Yeonjeong”. Morphological characteristics of “Yeonjeong” is as follows : Tree shape of “Yeonjeong” is weeping type. It has pinnate compound leaves. Each leaf is lanceolate and has serra. Leaf color is dark green and leaf vein is projected. Its stem becomes reddish by frost in fall. Its long-styled flower blooms facing down. Flowering date is 8th April which is 2~3days later than common forsythia. In the case of common forsythia which doesn't bear fruits, tree shape is spreading, leaf color is green and flower is short-styled. At the result of regional yield trial, internodal length of “Yeonjeong” was short as 4.9cm. Fruit number per axillary bud was 2.0 and yield was 104kg/10a which was increased by 46% as compared with EF1. Oleonic acid content, main component of fruit shell was 0.83%. It is recommendable for any region of country if the land is safe from humid injury. Dense planting may result in over growth, succulent shooting and hindered floral differentiation. Enough daylight and proper training and pruning are demanded.

Table 1. Morphological characteristics of new forsythia cultivar, “Yeonjeong”.

Cultivar (line)	Tree shape	Style shape	Leaf shape	Leaf color	Fruit shape	Fruit set
Yeonjeong	Weeping	Long styled	Lanceolate	Dark green	Oval	many
E F 1 ¹	“	“	“	“	“	middle
Forsythia	Spreading	Short styled	“	Green	-	no fruit

¹ : Uisong local variety (*Forsythia viridissima* LINDL.)

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Table 2. Morphological characteristics of new forsythia cultivar "Yeonjeong". ('95~'97, Regional yield trial)

Cultivar (line)	Blooming date	Stem length (cm)	Internodal length (cm)	No. of stem	No. of fruit per axillary bud
Yeonjeong	Apr. 8	202	4.9	16.2	2.0
E F 1	Apr. 6	191	6.0	14.7	1.1

Table 3. Disease and insect resistance and oleanolic acid content of "Yeonjeong".

Cultivar (line)	Anthraco-nose damage	Insect damage	Oleanolic acid content (%)
Yeonjeong	1	0	0.83
E F 1	1	0	0.81

Table 4. Performance test of "Yeonjeong".

('95~'97)

Cultivar (line)	Yield (weight of fruit)		
	g/plant	kg/10a	Index
Yeonjeong	195	98	178
E F 1	109	55	100

Table 5. Regional yield trial of "Yeonjeong".

('95~'97)

Test place	Cultivar (line)	No. of fruit per axillary bud	Yield (weight of fruit)		
			g/plant	kg/10a	Index
Uisong	Yeonjeong	2.1	216	108	144
	E F 1	1.2	150	75	100
Youngcheon	Yeonjeong	1.9	200	100	149
	E F 1	0.9	135	67	100
Mean	Yeonjeong	2.0	208	104	146
	E F 1	1.1	142	71	100

Table 6. Farmer's field test of "Yeonjeong".

('95~'97)

Cultivar (line)	Yield (Kg/10a)			Index		
	Uisong	Andog	Mean	Uisong	Andog	Mean
Yeonjeong	105	97	101	178	143	158
E F 1	59	68	64	100	100	100