



WILDRICE

Cultivated wildrice is grown on about 20,000 acres in Minnesota. Though some wildrice fields are still planted with shattering types most growers use varieties with nonshattering tendencies.

Because of likelihood of preharvest losses due to high winds, storms, blackbird damage and killing frost before varietal maturity, growers should favor varieties of early to medium maturity. For flexibility in harvesting, plant varieties resistant to shattering, disease and lodging.

Varieties

Franklin - Medium height, medium to early maturity. More resistant to

shattering than K2, especially retaining more seed when harvest is delayed. Released 1992 by Minn. AES.

GIB-C9 - High yielding, tall, medium-late maturing. Average shattering resistance. Seed is short, similar in length to Itasca and Petrowske Bottlebrush. Panicle type is mixed, including a noticeable percentage of bottlebrush panicles, depending on continuing selection intensity for the trait. Proprietary variety owned by Gunvalson Brothers and Pine Lake Wild Rice.

Itasca - High yielding, tall, medium-late maturing. Superior resistance to seed shattering and fungal brown spot (FBS) disease. Very lodging resistant. Yield is about 50 percent higher than Petrowske Purple and Franklin. Shattering loss is about one-third less than Franklin or Petrowske Purple. Significantly more FBS resistant than Franklin. Taller than Franklin by 3 inches and Petrowske Purple by 4 inches. Slightly later maturing than Petrowske Purple. Flowers 2 to 3 days after Petrowske Purple or Franklin. Average seed length is somewhat short, similar to Petrowske Purple and shorter than Franklin by 1/64 inch. Panicle type is mixed, including a noticeable percentage of bottlebrush panicles, but declining from 50-percent frequency

without continued selection for the trait. Released 2002 exclusively to Minnesota growers by the Minnesota Cultivated Wild Rice Council.

K2 - Medium height, early to medium maturity and medium to high yield. Developed by Kosbau Brothers in 1972.

Petrowske Purple - Moderately high fungal brown spot disease resistance and yield. High shattering resistance and lodging resistance. Consists of heterogeneous panicle types, most of which have some degree of purple at full flowering. Medium plant height. Medium-late maturity, flowering several days to a week after K2 and Franklin. Seeds shorter in length than most older varieties. Released 2000 by Minn. AES under a licensing agreement.

Wildrice Planting Rate and Date

Bushel Weight, Pounds	25
Seeds/Pound.....	7,900
Planting Rate, Pounds/Acre	50
Planting Rate, Seeds Sq. Ft.	9
Planting Date	Late Fall

Yield, shattering, lodging and fungal brown spot (FBS) ratings for wildrice varieties.

Variety	Kelliher / Waskish				Clearbrook / Gully			Altkin				1998-2002 Average			
	Yield, Lb/Acre ¹	Shattering, Percent ²	Lodging, Score ³	FBS, Score ⁴	Yield, Lb/Acre ¹	Lodging, Score ³	FBS, Score ⁴	Yield, Lb/Acre	Shattering, Percent ²	Lodging, Score ³	FBS, Score ⁴	Yield, Lb/Acre ¹	Shattering, Percent ²	Lodging, Score ³	FBS, Score ⁴
Franklin	1,255	23	2.7	4.8	1,870	3.5	3.9	1,096	20	2.1	4.7	1,270	22	2.4	4.6
GIB-C9	1,703	25	2.1	4.1	2,795	3.7	4.7	1,214	38	2.0	4.4	1,661	28	2.2	4.3
Itasca	1,793	17	1.3	3.2	3,450	2.2	3.3	1,774	12	1.1	4.0	1,971	16	1.4	3.5
K2	1,371	20	1.9	4.4	1,801	3.0	4.5	1,095	21	2.0	4.8	1,327	20	2.0	4.6
Petrowske Purple	1,378	22	1.7	3.7	1,974	2.5	3.5	1,033	26	1.5	4.2	1,329	23	1.7	3.8
LSD 5%	197	4	0.4	0.6	613	0.9	0.9	217	7	0.3	0.7	146	3	0.3	0.4
Years	98-99-00-01-02	98-99-01	98-99-01-02	98-99-00-01-02	00	98	98-00	00-01-02		99-00-01-02	99-00-01-02				

¹ Adjusted to 40% moisture. ² Expressed as a percentage of shattered seed plus grain yield per unit area. ³ Using a 1-5 scale where 1=stems completely erect, 3=stems averaging 45° angle, 5=stems prostrate. ⁴ Fungal Brown Spot rating using a 1-9 scale where 1=no significant disease lesions and 9=completely susceptible (dead).