

Pioneer® brand maize for grain hybrid trait characteristics for 2020-2021

Hybrid	Maturity			Yield		Plant and agronomic traits										Grain quality	
	CRM to grain harvest moisture (22%)	CRM to silking ²	CRM to black layer ³	Grain yield for maturity ⁴	Adaption to high population ⁵	Adaption to low population (ear flex) ⁶	Drought tolerance	Stalk strength	Root strength	Early growth ⁷	Plant height ⁸	Ear height ⁹	Staygreen ¹⁰	Husk cover ¹¹	Grain drydown ¹²	Grain appearance ¹³	Test weight
P8000	80	80	80	9	7	7	6	6	6	7	8	5	7	6	8	7	7
P8500	85	85	85	9	7	8	7	6	6	6	8	6	9	6	8	7	6
NEW P8666	86	86	86	9	6	9	8	5	5	6	8	6	8	6	7	7	7
P8805	88	88	88	9	9	5	8	6	5	6	5	6	7	5	8	6	6
NEW P9127	91	91	91	9	7	9	9	6	6	6	7	6	7	6	5	6	5
P9241	92	92	92	9	9	7	9	6	6	7	7	5	8	6	7	6	6
P9400	94	94	94	9	7	9	7	7	7	7	8	7	6	5	6	7	7
P9721	97	97	97	9	8	7	8	6	5	6	7	6	7	6	9	6	5
NEW P9874	98	98	98	9	9	6	9	6	6	6	6	4	7	5	6	5	5
P0021	100	100	100	9	9	6	7	6	7	8	6	5	7	6	6	5	6
NEW P0362	105	105	105	9	9	6	7	6	7	6	7	5	8	6	5	6	6
P0547	105	100	103	9	8	6	8	7	6	7	6	5	6	5	7	5	6
P0640	106	106	106	9	7	9	7	6	6	7	8	6	8	6	8	6	5
P0891	107	107	107	9	9	6	8	8	6	6	7	4	7	6	6	9	9
NEW P0937	109	108	109	9	9	7	8	6	7	9	6	4	9	6	5	6	5
P1253	109	109	109	9	8	6	7	6	5	6	6	5	8	6	6	8	9
P1477W	114	111	111	9	9	6	7	8	8	6	7	5	8	5	6	8	8

Ratings 9 = Outstanding 1 = Poor - = Insufficient data available **NEW** = New hybrid
 CRM = Comparative Relative Maturity n/a = Not applicable HT/AC = Refer to page 29, point 14

Pioneer sets tough yet honest standards when rating maize hybrids. These ratings are based on comparisons with other Pioneer® brand hybrids, **NOT** competitor hybrids and on average performance across areas of adaptation under normal conditions. The ratings are based on both customer 'side-by-side' paddock experience and research comparison data. Individual seasons and paddock ratings may show a variation from these average comparative ratings. Extreme conditions may adversely affect performance. Comparisons between hybrids for yield and plant height are only valid within a similar maturity group (+ or - 4 CRM). Notes on performance traits can be found on page 29.

Disease precaution

Growers should balance hybrid yield potential, hybrid maturity and cultural practices (especially stubble management) against their anticipated risk of specific diseases and need for resistance. In high disease risk situations, consider planting hybrids with at least moderate resistance ratings of 5 or higher to help reduce risk. When susceptible hybrids with disease ratings of 1 to 3 are planted in conditions of high disease pressure, the grower assumes a higher level of risk. If conditions are severe, even hybrids rated as resistant can be adversely affected. Independent of yield reduction, diseases can predispose plants to secondary diseases such as stalk rots. This requires individual field and hybrid monitoring for stalk stability and earlier harvest if necessary.

Hybrid	Food grade characteristics							Disease resistance ratings ²³							Recommended established plant populations (000S/HA) ^{24, 25, 26}					
	Processing use ¹⁴	Kernel density ¹⁵	Kernel crown ¹⁶	Pericarp removal ¹⁷	Kernel red streak ¹⁸	Kernel size ¹⁹	Horny endosperm ²⁰	Kernel colour ²¹	Northern Leaf Blight ²²	Common rust	Eyespot ²²	Head smut	Fusarium ear rot	Diplodia ear rot	Gibberella ear rot	Anthraco stalk rot	Challenging yield environments	Medium yield environments	High yield environments	
P8000	n/a	n/a	6	n/a	6	6	6	6	6	6	7	6	-	5	-	100	110	115	P8000	
P8500	n/a	n/a	5	n/a	6	7	5	6	5	5	5	6	-	6	-	90	100	115	P8500	
NEW P8666	n/a	n/a	5	n/a	6	7	6	6	6	6	-	6	-	6	-	85	95	105	P8666	
P8805	n/a	n/a	5	n/a	7	6	5	6	6	7	6	6	-	6	-	95	105	110	P8805	
NEW P9127	n/a	n/a	5	n/a	5	5	5	5	5	6	7	6	5	-	7	-	85	95	105	P9127
P9241	n/a	n/a	6	n/a	7	7	6	6	6	6	6	6	-	5	-	85	95	105	P9241	
P9400	n/a	n/a	6	n/a	5	6	6	7	7	6	6	7	5	-	6	-	85	95	105	P9400
P9721	n/a	n/a	5	n/a	6	7	5	7	6	7	7	5	5	-	5	-	88	96	102	P9721
NEW P9874	n/a	n/a	5	n/a	5	7	5	6	5	7	-	5	5	-	5	-	85	95	110	P9874
P0021	n/a	n/a	5	n/a	7	6	6	7	7	6	5	7	6	-	7	-	85	95	100	P0021
NEW P0362	n/a	n/a	6	n/a	7	7	6	6	6	7	7	6	6	-	5	-	85	95	105	P0362
P0547	n/a	n/a	5	n/a	6	6	5	6	5	6	5	6	5	6	4	4	88	96	102	P0547
P0640	n/a	n/a	5	n/a	6	6	4	6	7	7	6	6	5	6	7	-	85	95	100	P0640
P0891	HT/AC	7	7	5	6	5	8	5	7	6	6	5	5	5	6	5	85	95	105	P0891
NEW P0937	n/a	n/a	6	n/a	6	6	4	n/a	7	6	-	5	5	-	4	-	85	95	110	P0937
P1253	HT/AC	8	8	6	9	5	9	5	5	6	5	5	6	6	5	6	88	94	100	P1253
P1477W	HT/AC	8	7	5	7	7	6	8	7	6	7	5	6	5	6	6	85	95	100	P1477W

The hybrid descriptions in all New Zealand Pioneer® brand products publications conform to strict word usage protocols approved and used by Pioneer around the world. We do not use descriptive adjectives randomly or loosely. We have a policy of avoiding exaggerated superlatives in product descriptions or product discussions. The following words are those approved for use in the product performance descriptions listed on pages 15 to 20 of this catalogue.

Trait ratings	Word and numeric alignment for yield & agronomic traits	Trait ratings	Word and numeric alignment for disease traits
8-9	Excellent, exceptional, outstanding, superb, impressive, industry-leading.	8-9	Highly resistant, excellent, exceptional, outstanding, impressive.
7	Superior, very good, strong, sound, reliable, stable, dependable, consistent.	6-7	Resistant, superior, strong, very good.
6	Good, above average, sound, reliable, stable, dependable, consistent.	4-5	Intermediate, moderate, adequate, acceptable.
5	Average, acceptable, adequate, moderate.	1-3	Susceptible (caution on use if disease is prevalent).
4	Acceptable, slightly below average.		
1-3	Marginal, susceptible, below average.		