

Pioneer® brand maize for grain hybrid trait characteristics for 2018-2019

Hybrid	Maturity			Yield			Plant and agronomic traits										Grain quality traits			
	CRM to grain harvest moisture (24%)	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	Grain crude protein ¹⁴	Grain oil content ¹⁵	Starch total ¹⁶	Test weight
P8000	80	80	80	9	7	7	6	6	6	7	8	5	7	6	8	7	-	-	-	7
P8805	88	88	88	9	9	7	8	6	5	6	5	6	7	5	8	6	8	7	6	6
P9127	91	91	91	9	8	9	9	6	6	6	7	6	7	6	5	6	-	-	-	5
P9241	92	92	92	9	7	8	9	6	6	7	7	5	8	6	7	6	-	-	-	6
38P05	93	94	94	6	6	7	6	5	5	5	5	5	6	6	6	7	9	7	7	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	8	8	6	5	6	7	6	7	6	9	6	7	6	7	5
P0021	100	100	100	9	8	7	7	6	7	7	6	5	7	6	6	5	7	5	7	6
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	6	6	5	6	5	7	5	6	5	7	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	-	-	7	9
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	-	-	-	7

Processing use ¹⁷	Food grade characteristics							Disease resistance ratings ²⁶								Recommended established plant populations (000S/HA) ^{27, 28, 29}			Hybrid
	Kernel Density ¹⁸	Kernel crown ¹⁹	Pericarp removal ²⁰	Kernel red streak ²¹	Kernel size ²²	Horny endosperm ²³	Kernel colour ²⁴	Northern leaf blight ²⁵	Common Rust	Eyespot ²⁵	Head Smut	Fusarium ear rot	Diplodia ear rot	Gibberella ear rot	Anthrax stalk rot	Challenging yield environments	Medium yield environments	High yield environments	
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	6	7	-	-	5	-	100	110	115	P8000
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	6	6	-	-	6	-	95	105	110	P8805
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	7	6	5	-	7	-	85	95	105	P9127
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	6	6	6	-	5	-	85	95	105	P9241
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	5	5	7	5	-	5	4	88	94	100	38P05
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	6	6	7	5	-	6	-	85	95	105	P9400
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	6	5	5	-	5	-	88	96	102	P9721
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	6	5	7	6	-	7	-	85	95	100	P0021
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	7	5	6	-	5	-	88	96	105	P0362
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	6	5	6	5	6	4	4	88	96	102	P0547
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	7	6	6	5	6	7	-	85	95	100	P0640
HT/AC	7	6	5	5	5	7	5	7	6	6	5	5	5	6	5	85	95	105	P0891
HT/AC	8	8	6	9	5	9	4	5	6	5	5	6	6	5	6	88	94	100	P1253
HT/AC	8	6	5	6	7	6	8	7	6	7	5	6	5	-	6	85	95	100	P1477W

Ratings 9 = Outstanding 1 = Poor - = Insufficient data available **NEW** = New hybrid NR = Not recommended
 CRM = Comparative Relative Maturity n/a = Not applicable HT/AC = Refer to page 33, point 17

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 33.

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.

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 17 to 22 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.		