

# Pioneer® brand maize for grain hybrid trait characteristics for 2021-2022

Hybrid	Maturity			Yield			Plant and agronomic traits									Grain quality	
	CRM to black layer <sup>1</sup>	CRM to silking <sup>2</sup>	CRM to grain harvest moisture (22%) <sup>3</sup>	Grain yield for maturity <sup>4</sup>	Adaption to high population <sup>5</sup>	Adaption to low population (ear flex) <sup>6</sup>	Drought tolerance	Stalk strength	Root strength	Early growth <sup>7</sup>	Plant height <sup>8</sup>	Ear height <sup>9</sup>	Staygreen <sup>10</sup>	Husk cover <sup>11</sup>	Grain drydown <sup>2</sup>	Grain appearance <sup>13</sup>	Test weight
<b>P8000</b>	80	80	80	9	7	7	6	6	6	7	8	5	7	6	8	7	7
<b>NEW P8333</b>	83	83	83	9	5	9	7	6	5	6	8	6	8	6	7	7	7
<b>P8500</b>	85	85	85	9	7	8	7	6	6	6	8	6	9	6	8	7	6
<b>NEW P8666</b>	86	86	86	9	5	9	8	5	5	7	8	6	8	6	7	7	7
<b>P8805</b>	88	88	88	9	9	5	8	6	5	6	5	6	7	5	8	6	6
<b>P9127</b>	91	91	91	9	6	9	9	6	6	8	7	6	7	6	6	5	5
<b>P9241</b>	92	92	92	9	9	6	9	6	6	7	7	5	8	6	7	6	6
<b>P9400</b>	94	94	94	9	6	9	7	7	7	5	8	7	6	5	6	7	7
<b>P9721</b>	97	97	97	9	8	6	8	6	5	7	7	6	7	6	9	6	5
<b>P9874</b>	98	98	98	7	9	6	9	6	6	6	6	4	7	5	6	5	5
<b>NEW P9978</b>	99	99	99	9	9	7	7	6	7	7	7	6	7	6	5	6	5
<b>P0021</b>	100	100	100	9	9	6	7	6	7	8	6	5	7	6	6	5	6
<b>P0362</b>	103	103	103	9	9	6	7	6	7	6	7	5	8	6	5	6	6
<b>P0547</b>	105	100	101	9	7	6	8	7	6	8	6	5	6	5	8	5	6
<b>P0640</b>	106	106	104	9	7	9	7	6	6	7	8	6	8	6	8	6	5
<b>P0891</b>	107	107	107	9	9	6	7	8	6	5	7	4	7	6	6	9	9
<b>NEW P0900</b>	109	109	109	9	9	9	9	7	7	6	7	5	8	6	5	6	6
<b>P0937</b>	109	108	109	9	9	7	8	6	7	9	6	4	9	6	5	6	5
<b>P1253</b>	109	109	109	9	6	6	7	6	5	5	6	5	8	6	6	9	9
<b>P1477W</b>	114	111	114	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 52, 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 52.

## 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 resistance ratings of 6 or higher to help reduce risk. When susceptible hybrids 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.



Food grade characteristics								Disease resistance ratings <sup>23</sup>								Recommended established plant populations (000S/HA) <sup>24, 25, 26</sup>			Hybrid
Processing use <sup>14</sup>	Kernel density <sup>15</sup>	Kernel crown <sup>16</sup>	Pericarp removal <sup>17</sup>	Kernel red streak <sup>18</sup>	Kernel size <sup>19</sup>	Horny endosperm <sup>20</sup>	Kernel colour <sup>21</sup>	Northern Leaf Blight <sup>22</sup>	Common rust	Eyespot <sup>22</sup>	Head smut	Fusarium ear rot	Diplodia ear rot	Gibberella ear rot	Anthracnose stalk rot	Challenging yield environments	Medium yield environments	High yield environments	
n/a	n/a	6	n/a	6	6	6	6	6	6	6	7	6	6	5	-	100	110	115	<b>P8000</b>
n/a	n/a	6	n/a	6	7	6	6	5	6	-	4	-	-	5	-	85	95	105	<b>P8333</b> <span style="color:red">NEW</span>
n/a	n/a	5	n/a	6	7	5	6	5	5	5	7	6	6	6	-	90	100	115	<b>P8500</b>
n/a	n/a	5	n/a	6	7	6	6	6	6	-	6	-	-	6	-	85	95	105	<b>P8666</b> <span style="color:red">NEW</span>
n/a	n/a	5	n/a	7	6	5	6	6	7	6	6	6	7	6	-	95	105	110	<b>P8805</b>
n/a	n/a	5	n/a	5	5	5	5	5	6	7	6	5	5	7	-	85	95	105	<b>P9127</b>
n/a	n/a	6	n/a	7	7	6	6	6	6	6	6	6	7	5	-	85	95	105	<b>P9241</b>
n/a	n/a	6	n/a	5	6	6	7	7	6	6	7	5	7	6	-	85	95	105	<b>P9400</b>
n/a	n/a	5	n/a	6	7	5	7	6	7	7	5	5	6	5	-	88	96	102	<b>P9721</b>
n/a	n/a	5	n/a	5	7	5	6	5	7	-	5	5	-	5	-	85	95	110	<b>P9874</b>
n/a	n/a	5	n/a	6	7	5	6	6	7	-	6	5	-	5	-	85	95	110	<b>P9978</b> <span style="color:red">NEW</span>
n/a	n/a	5	n/a	7	6	6	7	7	6	5	7	6	7	7	-	85	95	100	<b>P0021</b>
n/a	n/a	6	n/a	7	7	6	6	6	7	7	6	6	6	5	-	85	95	105	<b>P0362</b>
n/a	n/a	5	n/a	6	6	5	6	5	6	5	6	5	6	4	4	88	96	102	<b>P0547</b>
n/a	n/a	5	n/a	6	6	4	6	7	7	6	6	5	6	7	-	85	95	100	<b>P0640</b>
HT/AC	7	7	7	7	5	8	5	6	6	6	5	5	5	6	5	85	95	105	<b>P0891</b>
n/a	n/a	6	n/a	6	7	5	6	7	7	-	7	4	-	5	-	80	90	110	<b>P0900</b> <span style="color:red">NEW</span>
n/a	n/a	6	n/a	6	6	4	6	7	6	-	5	5	5	4	-	85	95	110	<b>P0937</b>
HT/AC	8	8	7	9	5	9	5	5	6	5	5	6	6	5	6	88	94	100	<b>P1253</b>
HT/AC	8	7	6	7	7	7	8	7	6	7	5	6	5	6	6	85	95	100	<b>P1477W</b>

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 16 to 28 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.		