

# 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 <sup>2</sup>	CRM to black layer <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>12</sup>	Grain appearance <sup>13</sup>	Grain crude protein <sup>14</sup>	Grain oil content <sup>15</sup>	Starch total <sup>16</sup>	Test weight	
<b>P8000</b>	80	80	80	9	7	7	6	6	6	7	8	5	7	6	8	7	-	-	-	7	
<b>P8805</b>	88	88	88	9	9	7	8	6	5	6	5	6	7	5	8	6	8	7	6	6	
<b>P9127</b>	91	91	91	9	8	9	9	6	6	6	7	6	7	6	5	6	-	-	-	5	
<b>P9241</b>	92	92	92	9	7	8	9	6	6	7	7	5	8	6	7	6	-	-	-	6	
<b>38P05</b>	93	94	94	6	6	7	6	5	5	5	5	5	6	6	6	7	9	7	7	6	
<b>P9400</b>	94	94	94	9	7	9	7	7	7	7	8	7	6	5	6	7	-	-	-	7	
<b>P9721</b>	97	97	97	9	8	8	8	6	5	6	7	6	7	6	9	6	7	6	7	5	
<b>P0021</b>	100	100	100	9	8	7	7	6	7	7	6	5	7	6	6	5	7	5	7	6	
<b>P0362</b>	105	105	105	9	9	6	7	6	7	6	7	5	8	6	5	6	-	-	-	6	
<b>P0547</b>	105	100	103	9	8	6	8	7	6	6	6	5	6	5	7	5	6	5	7	6	
<b>P0640</b>	106	106	106	9	7	9	7	6	6	7	8	6	8	6	8	6	-	-	-	5	
<b>P0891</b>	107	107	107	9	9	6	8	8	6	6	7	4	7	6	6	9	-	-	7	9	
<b>P1253</b>	109	109	109	9	8	6	7	6	5	6	6	5	8	6	6	8	-	-	-	9	
<b>P1477W</b>	114	111	111	9	9	6	7	8	8	6	7	5	8	5	6	8	-	-	-	7	

Processing use <sup>17</sup>	Food grade characteristics							Disease resistance ratings <sup>26</sup>										Recommended established plant populations (000S/HA) <sup>27, 28, 29</sup>			Hybrid
	Kernel Density <sup>18</sup>	Kernel crown <sup>19</sup>	Pericarp removal <sup>20</sup>	Kernel red streak <sup>21</sup>	Kernel size <sup>22</sup>	Horny endosperm <sup>23</sup>	Kernel colour <sup>24</sup>	Northern leaf blight <sup>25</sup>	Common Rust	Eyespot <sup>25</sup>	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	<b>P8000</b>		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	6	6	-	-	6	-	95	105	110	<b>P8805</b>		
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	<b>P9127</b>		
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	<b>P9241</b>		
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	<b>38P05</b>		
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	<b>P9400</b>		
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	<b>P9721</b>		
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	<b>P0021</b>		
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	<b>P0362</b>		
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	<b>P0547</b>		
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	<b>P0640</b>		
HT/AC	7	6	5	5	5	7	5	7	6	6	5	5	5	6	5	85	95	105	<b>P0891</b>		
HT/AC	8	8	6	9	5	9	4	5	6	5	5	6	6	5	6	88	94	100	<b>P1253</b>		
HT/AC	8	6	5	6	7	6	8	7	6	7	5	6	5	-	6	85	95	100	<b>P1477W</b>		

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.		