

# Pioneer® brand maize for grain hybrid trait characteristics for 2017-2018

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>NEW</b> 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
<b>NEW</b> 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	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
37Y12	97	100	96	7	8	6	6	5	6	6	6	5	5	7	9	6	9	6	8	6
P9721	97	97	97	9	8	8	8	6	5	6	7	6	7	6	9	6	7	6	7	5
P9911	99	99	99	8	6	9	9	5	5	6	8	6	9	6	5	5	7	6	9	5
P0021	100	100	100	9	8	7	7	6	7	7	6	5	7	6	6	5	7	5	7	6
36B08	103	100	102	6	9	6	7	6	6	7	4	3	6	7	5	6	9	6	7	6
P0537	105	105	105	8	9	7	7	6	5	6	6	5	6	6	6	7	7	6	9	8
P0547	105	100	103	9	8	6	8	7	6	6	6	5	6	5	7	5	6	5	7	6
<b>NEW</b> P0640	106	106	106	9	7	9	7	6	6	7	8	6	8	6	8	6	-	-	-	5
P0725	107	108	108	9	7	7	9	6	6	7	7	5	8	5	7	5	-	-	-	6
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
<b>NEW</b> P1477W	114	111	111	9	9	6	7	8	8	7	7	5	8	5	6	8	-	-	-	7

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.

Hybrid	Food grade characteristics								Disease resistance ratings <sup>26</sup>								Recommended established plant populations (000S/HA) <sup>27,28</sup>		
	Processing use <sup>17</sup>	vKernel 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	Anthraxose stalk rot	Challenging yield environments	Medium yield environments	High yield environments
P8000	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	6	7	-	-	5	-	105	110	115	<b>NEW</b> P8000
P8805	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	6	6	-	-	6	-	95	104	110	<b>NEW</b> P8805
P9241	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	6	6	6	-	5	-	85	95	105	<b>NEW</b> P9241
38P05	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>NEW</b> 38P05
P9400	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	6	6	7	5	-	6	-	85	95	105	<b>NEW</b> P9400
37Y12	n/a	5	4	5	7	6	4	6	5	6	6	5	5	5	4	88	96	102	<b>NEW</b> 37Y12
P9721	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	7	6	5	5	-	5	-	88	96	102	<b>NEW</b> P9721
P9911	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	5	6	4	5	-	6	-	85	95	100	<b>NEW</b> P9911
P0021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	6	5	7	6	-	7	-	85	95	100	<b>NEW</b> P0021
36B08	n/a	6	7	4	8	7	-	7	5	6	8	5	4	5	5	88	94	100	<b>NEW</b> 36B08
P0537	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6	4	8	7	6	6	-	88	96	102	<b>NEW</b> P0537
P0547	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>NEW</b> P0547
P0640*	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	7	6	5	5	6	5	-	85	95	100	<b>NEW</b> P0640*
P0725	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	7	7	7	5	4	7	-	85	95	100	<b>NEW</b> P0725
P0891	HT/AC	7	6	5	5	5	7	7	6	6	5	5	5	6	5	85	95	105	<b>NEW</b> P0891
P1253	HT/AC	8	8	6	9	5	9	4	5	6	5	6	6	5	6	88	94	100	<b>NEW</b> P1253
P1477W	HT/AC	8	6	5	6	7	6	8	6	6	7	5	6	5	-	88	94	100	<b>NEW</b> 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 19 to 24 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.		