



THE MAIZE BOOK 2023.

A guide to selecting and establishing
maize crops in New Zealand.

LATEST ADDITION TO THE CORSON MAIZE LINE UP



PAC 081 **NEW**

SILAGE CRM 79 / GRAIN CRM 86

- Very early maturing dual purpose hybrid
- High silage yield with reliable grain content for this maturity
- Excellent test weight grain suitable for food grade markets
- Suitable in all maize growing regions in New Zealand

NEW SEED PROCESSING FACILITY

Commissioning of PGG Wrightson Seeds' Gisborne facility is now complete.

The fully operational seed processing facility is the final step in a five-year development programme which has seen several stages, including relocation of the Corson Maize and PGG Wrightson Seeds research farm to an adjacent site; the building and expansion of seed dryers; the purchase of a neighbouring building, and construction of a warehouse and cool store.

See page 41 for full story. 



CORSON MAIZE SEED SELECTOR

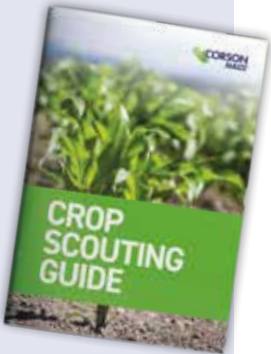
A useful resource designed to save farmers and growers time and effort when considering their maize growing options.

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ONLINE MAIZE
SEED SELECTOR



Crop Scouting Guide

A publication aimed at providing growers and industry personnel with detailed information on crop agronomy, husbandry, scouting, and the diagnosis of problems commonly encountered in the field.



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THE MAIZE BOOK 2023.

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INTRODUCTION

Welcome to The Maize Book 2023

When I initially wrote my introduction it was prior to the devastating storms and climatic issues faced in the first few months of 2023. It is amazing how a few short months can change your perspective on the season.

What an incredibly challenging time North Island farmers and growers have faced over the first four months of 2023. The issues in areas affected by Cyclone Gabrielle will be with farmers and growers for months if not years to come.

The climate has not only been devastating regarding storm damage, but there has also been excessive wind at times and ideal conditions for leaf disease. During the season there was concern about potential damage from the incursion of Fall Army Worm (FAW). There has been some damage from FAW, but nothing compared to the widespread impact of leaf disease, mainly Northern Leaf Blight, across the North Island. Normally we would only see impact from this leaf fungus in Northland and parts of the Waikato and Bay of Plenty. But this season there has been significant NLB damage across the whole North Island.

In my 25 years of involvement in the maize industry I have never experienced a year as challenging.

At Corson Maize we have been very pleased with how our hybrids have performed in these challenging conditions. In most areas our maize hybrids have performed; standing well after large wind events and able to tolerate significant leaf disease challenges.

For many years, our product development programme has focused on introducing hybrids that yield well and can withstand changeable climatic challenges whether it be wind events, drought or plant disease issues. This past season has certainly proved that we have been on the right track

You might remember that last year we also introduced a new naming system for our hybrids so that we could align maize hybrid genetics from multiple companies within a standard naming system. The response to this change has been positive.

Thank you all for your feedback. It does take time to get used to new names, so if you haven't quite got the new names sorted, a table on the next page is included to remind you of the old and new names.

Each year we try to make further improvements in our offering. Previously we have sold seed in bags containing 80,000 kernels. This year we are moving to 50,000 kernel bags. This is for a couple of reasons. Firstly, we have been asked to provide lighter bags due to the lifting limits that are required in stores. Additionally, the wetter and cooler growing seasons experienced in Gisborne have caused heavier seed to be produced. Simply put, some of our hybrids are now well into the mid or high 30 kgs plus per bag. By reducing the number of kernels, we can reduce the bag weight down to a more respectable 20 – 25 kgs per bag. Climate change is having an impact in more ways than one.

Even with changing climatic conditions, maize grown for silage or grain continues to be an outstanding crop for New Zealand farmers and Corson Maize is committed to providing top quality seed and hybrid genetics year on year.

Make sure you get in early to secure your seed as it is going to be in hot demand this coming season.

All the best for 2023.

Cheers

Graeme Austin
National Sales Manager
Corson Maize



CORSON MAIZE HYBRID NAMING SYSTEM

In 2022 we renamed some of our existing maize hybrid products using the PAC naming system. We understand that may have been confusing for those who were familiar with our previous names. We also understand that the use of “PAC” may be confusing because it is associated with Pacific Seeds.

To clarify the changes we have made, we wish to make it clear that not all our hybrids are sourced from Pacific Seeds, and that we have adopted the Pacific Seeds (PAC) naming convention to meet market requests and simplify the names we use. The table alongside sets out the new PAC name and the previous names of each hybrid.

We also described a group of hybrids as “Dairy Platform Specialist Maize Hybrids”. They were also advertised as a new group and newly introduced. The hybrids in this group are existing Corson hybrids that were selected by us as suitable for use on dairy platforms.

In 2023 Corson Maize is not marketing a dairy platform range of hybrids.

**CORSON MAIZE HYBRIDS AND
PAC IDENTIFICATION**

PREVIOUS NAME	CRM	NEW NAME
PAC 624	115	PAC 624
PAC 564	113	PAC 564
Z71-F1	111	PAC 500
PAC 456	109	PAC 456
PAC 430	108	PAC 430
Plenitude	107	PAC 400
PAC 432	105	PAC 432
G49-T9	104	PAC 355
PAC 344	102	PAC 344
PAC 314	101	PAC 314
Afinity	97	PAC 200
N39-Q1	97	PAC 295
PAC 249	95	PAC 249
PAC 144	94	PAC 144
Comet	92	PAC 100
PAC 119	90	PAC 119
PAC 050	85	PAC 050
Booster	81	PAC 007

Key:

Name change



PRODUCT DEVELOPMENT UPDATE

What a season! The climate continues to show us how variable it can be and has placed more challenges around the 2022 planting season. However, it also showed us just how resilient and determined the agricultural industry is to meet the needs of commercial maize growers, farmers and other end users to get their maize crops planted in the small weather windows that we were presented with in 2022. The term 'legendary' comes to mind when thinking about the efforts contractors have put in to get through this season.

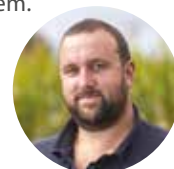
The Corson Maize Hybrid Development programme continues to grow, with the inclusion of new genetics into the trials for assessment and comparison to our current portfolio of hybrids. The challenging conditions presented by the climate gives us the chance to see just how resilient these hybrids are and how they react

in each different environment. With our focus being on stability, we are looking for the hybrids that perform well across many environments and with this season's climate variability, we are certainly putting these hybrids to the test. Our unique genetic diversity allows us to look at multiple supplier materials and assess how each handles the conditions they are placed in. If you would like a look through some of our plot trials, please get in touch with the Corson Maize team to organise a time to do so. We have multiple sites located around the country for viewing.

We are excited by the release of PAC 081 into the market this season. With a silage CRM of 79 and an impressive silage yield potential, it is well equipped to provide a high yield of early maize silage on a dairy platform or maize growing enterprise. It is also an excellent South Island option as a replacement for PAC 003 (Delitop) and a strong partner with PAC 007 (Booster). Get in touch with the Corson Maize team to discuss if PAC 081 will suit your system.

Regards

Mike Turner
Senior Research Agronomist







MAIZE HYBRID SELECTION

Follow our three step decision-making process to help you select a maize hybrid for optimal performance in your farm system.

MAIZE SILAGE HYBRID SELECTION GUIDE

SCAN HERE
FOR OUR
ONLINE MAIZE
SEED SELECTOR



Follow the three step process outlined to find the Corson Maize hybrids with the right silage maturity for your farm system.



STEP 1: SELECT YOUR PREFERRED PLANTING AND HARVEST DATES FOR MAIZE SILAGE

Decide on your preferred planting and harvest dates for growing your maize crop. Referring to Table 1, you can determine the estimated number of days from planting date through to your maize crop reaching full plant maturity and then identify the corresponding harvest date.

The data displayed in Table 1 on planting date, estimated timing to reach plant maturity and the relative harvest date is derived from our maize research trials. These figures have been compiled using heat unit information and trial data within each broad regional category. A number of factors can influence plant growth and development, hence these recommendations should be used as a guideline only. Contact your local Corson Maize Sales Agronomist for more detailed recommendations.

TABLE 1: DETERMINE THE NUMBER OF DAYS FROM PLANTING THROUGH TO HARVEST

		PLANTING DATE																							
		20 SEP	24 SEP	27 SEP	1 OCT	4 OCT	8 OCT	11 OCT	15 OCT	18 OCT	22 OCT	25 OCT	29 OCT	1 NOV	5 NOV	8 NOV	12 NOV	15 NOV	19 NOV	22 NOV	26 NOV	29 NOV	3 DEC		
HARVEST DATE	1 FEB	134	130	127	123	120																			
	6 FEB	139	135	132	128	125	121																		
	11 FEB	144	140	137	133	130	126	123																	
	16 FEB	149	145	142	138	135	131	128	124	121															
	21 FEB	154	150	147	143	140	136	133	129	126	122														
	26 FEB	159	155	152	148	145	141	138	134	131	127	124	121												
	2 MAR	164	160	157	153	150	146	143	139	136	132	129	125	122											
	7 MAR	169	165	162	158	155	151	148	144	141	137	134	130	127	123	120									
	12 MAR	174	170	167	163	160	156	153	149	146	142	139	135	132	128	125	121								
	17 MAR		175	172	168	165	161	158	154	151	147	144	140	137	133	130	126	123							
	22 MAR				173	170	166	163	159	156	152	149	145	142	138	135	131	128	124	121					
	27 MAR					175	171	168	164	161	157	154	150	147	143	140	136	133	129	126	122				
	1 APR						176	173	169	166	162	159	155	152	148	145	141	138	134	131	127	124	121		
	6 APR							174	171	167	164	160	157	153	150	146	143	139	136	132	129	125			
	11 APR								176	172	169	165	162	158	155	151	148	144	141	137	134	130			
	16 APR									177	174	170	167	163	160	156	153	149	146	142	139	135			
21 APR											175	172	168	165	161	158	154	151	147	144	140				
26 APR													177	173	170	166	163	159	156	152	149	145			
1 MAY															178	175	171	168	164	161	157	154	150		





MAIZE SILAGE HYBRID SELECTION GUIDE



STEP 2: SELECT A CORSON MAIZE SILAGE HYBRID SUITED TO YOUR REGIONAL GROWING CONDITIONS

Another element to consider is your growing region. Refer to Table 2 below, where the Corson Maize hybrids well suited to the local regional growing and environmental conditions are listed. These hybrids are further arranged into regional plant maturity categories, ranging from very early through to very late options.

TABLE 2: THE GROWING REGIONS FOR CORSON MAIZE SILAGE HYBRIDS

REGION ONE					
	VERY EARLY	EARLY	MID	LATE	VERY LATE
	PAC 081	PAC 119	PAC 314	PAC 430	PAC 624
	PAC 007 (Booster)	PAC 100 (Comet)	PAC 344	PAC 456	
	PAC 050	PAC 144	PAC 355 (G49-T9)	PAC 500 (Z71-F1)	
		PAC 249	PAC 432	PAC 564	
		PAC 295 (N39-Q1)	PAC 400 (Plenitude)		
		PAC 200 (Afinity)			
REGION TWO					
	VERY EARLY	EARLY	MID	LATE	VERY LATE
		PAC 081	PAC 119	PAC 344	PAC 430
		PAC 007 (Booster)	PAC 100 (Comet)	PAC 355 (G49-T9)	PAC 446
		PAC 050	PAC 144	PAC 432	
			PAC 249	PAC 400 (Plenitude)	
			PAC 295 (N39-Q1)		
			PAC 200 (Afinity)		
REGION THREE					
	VERY EARLY	EARLY	MID	LATE	VERY LATE
		PAC 081	PAC 119	PAC 100 (Comet)	PAC 344
		PAC 007 (Booster)	PAC 050	PAC 144	
				PAC 249	
				PAC 295 (N39-Q1)	
				PAC 200 (Afinity)	
				PAC 314	
REGION FOUR					
	VERY EARLY	EARLY	MID	LATE	VERY LATE
			PAC 081	PAC 119	PAC 100 (Comet)
			PAC 007 (Booster)		PAC 144
			PAC 050		

MAIZE SILAGE HYBRID SELECTION GUIDE



STEP 3: DAYS TO PLANT MATURITY AND GROWING REGION FOR CORSON MAIZE SILAGE HYBRIDS

In determining your preferred planting and harvest dates, you will have developed an understanding of the number of days allocated for your maize crop to reach full plant maturity (see Table 1). Referring to Table 2, you will have also determined the Corson Maize hybrids that can be grown in your region.

With this information outlined, using Table 3 below, you can select the suitable Corson Maize hybrid(s) based

on their preferred growing time. Table 3 identifies the approximate days from planting to harvest date for the Corson Maize hybrids to reach full plant maturity.

Considering the intended planting date, harvest date, plant maturity and growing region in your decision making, you will be able to identify the Corson Maize hybrid(s) best suited for your requirements.

For further information on your selected Corson Maize hybrid(s), refer to the relevant hybrid information on pages 22-40.

TABLE 3: SELECT THE HYBRID(S) BASED ON YOUR REQUIRED PLANT MATURITY AND REGION

		APPROXIMATE DAYS FROM PLANTING TO HARVEST				
	SILAGE CRM	REGION 1	REGION 2	REGION 3	REGION 4	
CORSON MAIZE HYBRID	PAC 081	79	115-129	123-137	128-142	143-163
	PAC 007 (Booster)	81	117-131	125-139	130-144	145-165
	PAC 050	85	120-136	130-144	135-149	150-170
	PAC 119	90	124 -138	131-145	135-149	154-174
	PAC 100 (Comet)	92	126-140	133-147	137-151	156-176
	PAC 144	94	128-142	135-149	140-154	160-180
	PAC 249	95	129-143	137-151	140-154	
	PAC 295 (N39-Q1)	97	131-145	139-153	143-157	
	PAC 200 (Afinity)	97	133-147	141-155	145-160	
	PAC 314	101	134-148	142-156	146-161	
	PAC 344	102	135-149	143-157	147-162	
	PAC 355 (G49-T9)	104	136-150	144-158		
	PAC 432	105	137-152	145-160		
	PAC 400 (Plenitude)	107	140-154	149-165		
	PAC 430	108	141-155	150-166		
	PAC 456	109	142-156	151-167		
	PAC 500 (Z71-F1)	111	144-158			
	PAC 564	113	147-160			
	PAC 624	115	149-163			

ARIDAPT™ MAIZE HYBRIDS

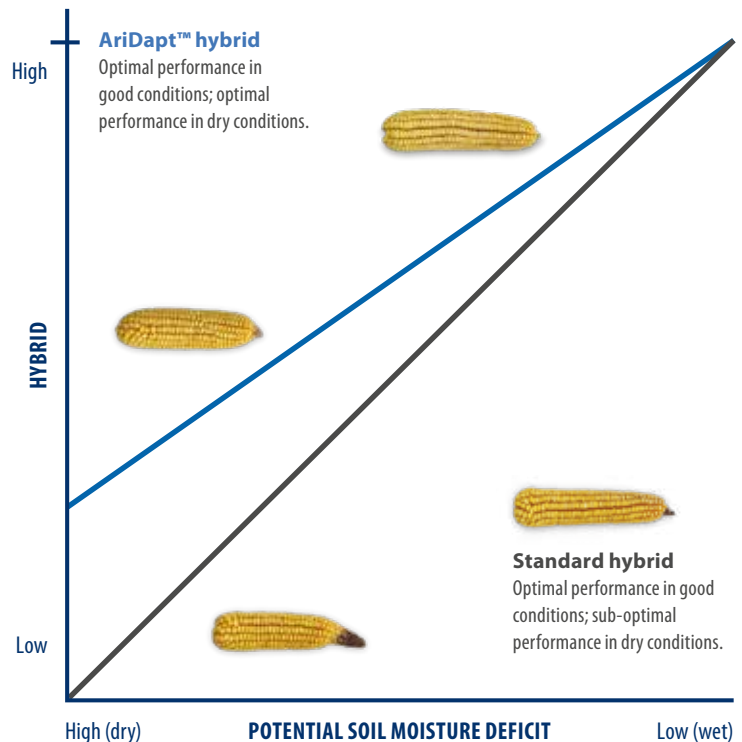


BENEFITS OF ARIDAPT™

The AriDapt™ maize hybrids from Corson Maize will provide growers with higher and more consistent grain and dry matter yields in a wider range of conditions compared with other conventional hybrids. PAC 119, PAC 249, PAC 314 and PAC 430 are the four Corson Maize hybrids that have the AriDapt™ technology available this season. All of these hybrids have demonstrated themselves to perform consistently well in some of the best and worst conditions in their respective North Island regions.

CHARACTERISTICS OF ARIDAPT™ HYBRIDS

- Strong deep roots that resist rot and premature plant death
- High water-use efficiency
- Well balanced canopies, not excessively leafy
- Strong thick stalks and low ear placement
- Early silking and extended flowering period
- Optimal husk length to ensure timely silk emergence
- Excellent green leaf-area retention (staygreen)
- High grain harvest-index and total biomass (dry matter yield)



Expected performance of AriDapt™ and standard maize hybrids in optimal and sub-optimal conditions (adapted from Annon <https://www.dekalb.fr/mais-grain/conseils-pour-planter-et-cultiver-le-mais/variete-de-mais-grain/semences-hybrides>). In sub-optimal conditions, New Zealand data indicates that the AriDapt™ range of hybrids from Corson Maize will out-yield standard hybrids by around 7% at 10 t/ha of grain. In terms of silage that would be 7% at 15 tDM/ha.



PAC 249 in Manawatu

HYBRID TRAITS AND FEED QUALITY GUIDE

		NEW								
		PAC 081	PAC 007 (Booster)	PAC 050	PAC 119	PAC 100 (Comet)	PAC 144	PAC 249	PAC 295 (N39-Q1)	
CROP RELATIVE MATURITY	CRM SILAGE	79	81	85	90	92	94	95	97	
	CRM GRAIN	86	88	NA	90	NA	94	97	100	
PLANT TRAITS	HUSK COVER	M	L	M	M	L	M	M	M	
	EAR FLEX	SF	SF	F	F	SF	F	F	F	
	EARLY GROWTH	★4	★5	★4	★4	★3	★4	★3	★2	
	RELATIVE PLANT HEIGHT	T	T	T	MT	MT	MT	MT	T	
	STAYGREEN	★4	★4	★4	★5	★4	★3	★4	★4	
	ROOT STRENGTH	★4	★4	★5	★4	★3	★4	★3	★4	
	STALK STRENGTH	★4	★4	★4	★5	★4	★3	★4	★4	
	DROUGHT TOLERANCE	★4	★4	★3	★5	★4	★3	★5	★4	
DISEASE RESISTANCE	RUST TOLERANCE	★3	★3	★2	★3	★5	★4	★4	★4	
	NORTHERN LEAF BLIGHT	★4	★3	★3	★4	★2	★4	★3	★4	
SILAGE QUALITY TRAITS	WHOLE PLANT DIGESTIBILITY	★5	★4	★4	★4	★4	★5	★5	★4	
	TOTAL ENERGY	★4	★4	★4	★4	★5	★4	★4	★5	
GRAIN CHARACTERISTICS	KERNEL TEXTURE	H	H	H	M	MS	M	M	M	
	GRAIN DRYDOWN	★3	★3	NA	★4	NA	★4	★3	★4	
	TEST WEIGHT	★5	★5	★5	★4	NA	★4	★4	★4	
PLANTING POPULATIONS (000/HA)	GRAIN	85-95	90-105	NA	90-100	NA	90-100	90-100	85-95	
	SILAGE	95-105	95-110	95-105	95-105	95-105	90-105	95-105	90-100	

TRAIT RATINGS

★1 Poor ★2 Below Average ★3 Good ★4 Very Good ★5 Excellent

NA - Not Applicable ID - Insufficient Data

MAIZE SILAGE HYBRID SELECTION

	PAC 200 (Afinity)	PAC 314	PAC 344	PAC 355 (G49-T9)	PAC 432	PAC 400 (Plenitude)	PAC 430	PAC 456	PAC 500 (Z71-F1)	PAC 564	PAC 624
	97	101	102	104	105	107	108	109	111	113	115
	100	101	102	NA	107	NA	108	109	NA	115	NA
	M	M	M	S	L	M	L	M	S	M	L
	SF	F	F	F	F	SF	F	F	F	F	F
	★ 2	★ 3	★ 5	★ 4	★ 3	★ 4	★ 3	★ 3	★ 4	★ 3	★ 3
	MT	MT	M	T	T	T	MT	T	T	M	T
	★ 4	★ 4	★ 5	★ 4	★ 5	★ 4	★ 4	★ 4	★ 4	★ 5	★ 4
	★ 4	★ 5	★ 4	★ 4	★ 3	★ 4	★ 5	★ 3	★ 4	★ 4	★ 4
	★ 4	★ 4	★ 5	★ 4	★ 5	★ 4	★ 4	★ 4	★ 4	★ 4	★ 5
	★ 3	★ 5	★ 4	★ 4	★ 4	★ 3	★ 5	★ 3	★ 4	★ 4	★ 4
	★ 4	★ 3	★ 4	★ 4	★ 3	★ 4	★ 3	★ 4	★ 4	★ 3	★ 3
	★ 5	★ 4	★ 5	★ 3	★ 5	★ 2	★ 4	★ 4	★ 4	★ 4	★ 4
	★ 5	★ 4	★ 4	★ 4	★ 4	★ 5	★ 5	★ 3	★ 4	★ 4	★ 4
	★ 5	★ 4	★ 4	★ 4	★ 4	★ 5	★ 5	★ 4	★ 5	★ 4	★ 5
	M	M	MH	S	MS	MS	M	M	S	M	MS
	★ 4	★ 4	★ 4	NA	★ 3	NA	★ 4	★ 3	NA	★ 2	NA
	★ 4	★ 4	★ 4	NA	★ 4	NA	★ 4	★ 4	NA	★ 4	NA
	85-95	90-100	90-100	NA	85-100	NA	80-95	85-90	NA	80-95	NA
	90-100	95-105	95-105	80-95	90-105	90-100	85-100	85-100	80-95	85-100	80-90

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff. For more information on hybrid trait ratings see page 16.

CORSON MAIZE HYBRID TRAIT DEFINITIONS

The following traits are rated for the respective Corson Maize hybrids. The ratings provided are based on observations by Corson Maize staff and are not comparable to any other companies' ratings. For some hybrids, specific trait ratings are Not Applicable (NA), while for others there is Insufficient Data (ID) to present.

1. Comparative Relative Maturity (CRM)

Rating based on Growing Degree Units (GDU) to silage harvest and harvest moisture relative to other Corson Maize hybrids.

2. Husk Cover

Length of husk extending over the cob. L = Long; M = Medium; S = Short.

3. Ear Flex

F = Flex (Indeterminate ear size) the hybrid has the ability to extend ear length and/or kernel rows when growing conditions allow; SF = Semi flex ear type.

4. Early Growth

Rating of early growth to the 5th collared leaf stage.

5. Relative Plant Height

T = Tall; MT = Medium-tall; M = Medium; S = Short.

6. Staygreen

A measure of late season plant health. A lower score means the plant stover dries down more rapidly as it approaches maturity.

7. Root Strength

Relative resistance to root lodging.

8. Stalk Strength

Relative resistance to stalk breakage/lodging.

9. Drought Tolerance

Ability to withstand dry conditions.

10. Disease Ratings

Please note that these ratings are not absolute. Environmental conditions play a critical role in disease development, which can, in turn, predispose plants to secondary diseases. If conditions are severe, even hybrids rated with excellent resistance can be adversely affected. Growers should balance yield potential, hybrid maturity and cultural practices (crop rotations, crop residue management etc.) against the anticipated risk of disease pressure.

11. Whole Plant Digestibility

Based on digestibility of organic matter. This provides a relative indication of the energy potential of a forage.

12. Total Energy

This takes into account estimated feed energy and yield to give a relative rating for total energy harvested per hectare.

13. Grain Hardness

Based on the amount of energy required and/or the time taken to grind a standard grain sample. Usually measured using a Stenvert Hardness Tester.

14. Kernel Texture: Endosperm texture

H = Hard; MH = Medium hard; M = Medium; MS = Medium soft; S = Soft.

15. Grain Drydown

Relative rate of moisture loss from grain following physiological maturity.

16. Test Weight

Based upon grain test weight (kg/hL) corrected to 14% kernel moisture content.

RE-PLANT POLICY*

Growing an excellent maize crop requires good planning and following best practice processes, however sometimes failures may occur.

At Corson Maize we will share some of the cost of a failed crop. We will supply replacement Corson Maize seed at half price if, within two months of planting, the crop fails and needs to be re-planted.

This policy allows growers who have had a crop, sourced from any maize seed company, fail within two months of planting to purchase seed from Corson Maize at half price to re-sow the failed crop. This does not cover greenfeed maize products or sweetcorn and does not cover the cost of the seed treatment.

Talk to your Corson Maize Sales Agronomist for further details or visit corsonmaize.co.nz

** Conditions apply – for full terms and conditions go to corsonmaize.co.nz*







SILAGE AND GRAIN MAIZE HYBRIDS

A comprehensive range of maize hybrids suitable for producing silage and grain, delivering ultimate flexibility in harvest options for farmers and contractors.

CORSON MAIZE SILAGE AND GRAIN HYBRIDS

Corson Maize has the ability to access genetics from more maize seed companies than any other company in New Zealand. This means that we can provide our growers with stronger hybrid genetics that have been tried and tested and best suited to maize growing environments in New Zealand.

This section of 'The Maize Book' highlights the maize hybrids that we have identified as outstanding hybrids for New Zealand conditions. Our wide range of hybrids offers farmers options and versatility for a wide range of environments and farming operations.

In the hybrid selection section on pages 8 - 17, you will find a handy guide on how to select the silage maize hybrid that will work based on your region and your planned planting dates.

For any further support in selecting a maize hybrid, please contact either your local rural retailer representative or your Corson Maize Sales Agronomist (see back cover for contact details).







PAC 081

SILAGE CRM 79 / GRAIN CRM 86

HYBRID TRAITS

Early Growth	★★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★

PLANTING POPULATIONS (000/HA)

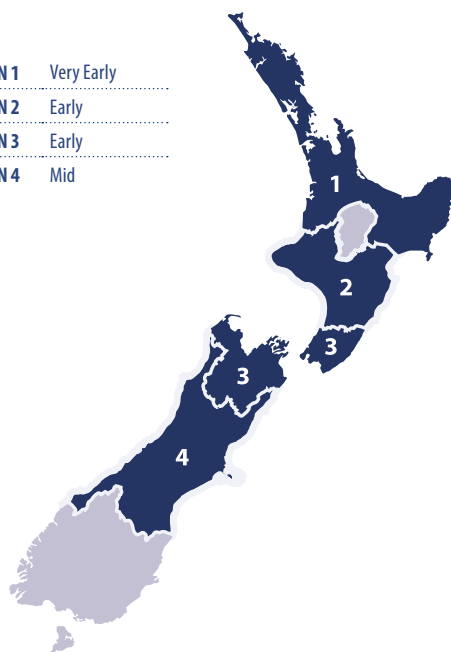
Grain	85-95
Silage	95-105

REGION 1 Very Early

REGION 2 Early

REGION 3 Early

REGION 4 Mid



PAC 081 is a tall, attractive hybrid suitable for use in maize growing regions around New Zealand as an early maturing maize hybrid.

PAC 081 is a bulky, high yielding hybrid, with outstanding performance for this maturity.

PAC 081 has excellent yield stability, with great standability and yield potential. **PAC 081** is a dual purpose hybrid, producing consistently high grain yields across the main maize growing regions in the country.

PAC 081 is bred by KWS.

- **Very early maturing dual purpose hybrid**
- **High silage yield with reliable grain content for this maturity**
- **Excellent test weight grain suitable for food grade markets**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 007 (Booster)

SILAGE CRM 81 / GRAIN CRM 88

HYBRID TRAITS

Early Growth	★★★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★
Grain Drydown	★★★

PLANTING POPULATIONS (000/HA)

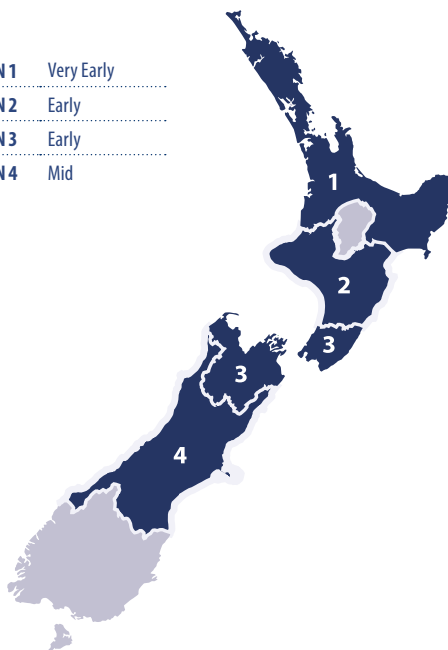
Grain	90-105
Silage	95-110

REGION 1 Very Early

REGION 2 Early

REGION 3 Early

REGION 4 Mid



PAC 007 is a very early dual purpose hybrid suitable for South Island, lower North Island and other regions where an exceptionally high yielding, early maturing maize hybrid is desired. From its excellent early growth it develops into a large bulky plant with a solid girthy ear. Very good standability and good late season plant health optimise **PAC 007**'s yield stability providing a solid platform for silage and grain growers.

The large size and hard, flinty nature of its kernels make **PAC 007** relatively slower to grain harvest maturity compared to silage maturity. Still, the high yield potential and consistency combined with a very good agronomic profile make **PAC 007** the hybrid of choice in the "very early" maize market.

PAC 007 is bred by KWS.

- Very early maturity dual purpose hybrid
- Excellent yield stability
- Large bulky plant with excellent early growth
- Very good stalk and root strength
- Girthy well filled ears packed with large excellent test weight kernels

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 050

SILAGE CRM 85

HYBRID TRAITS

Early Growth	★★★★
Drought Tolerance	★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★★★
Rust Tolerance	★★
Northern Leaf Blight	★★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

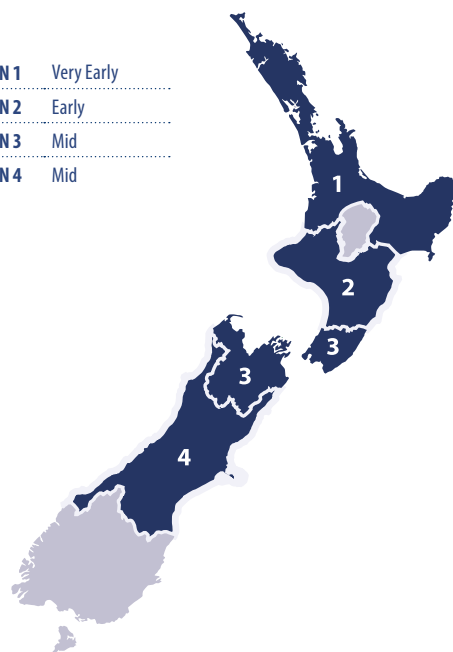
Silage	95-105
--------	--------

REGION 1 Very Early

REGION 2 Early

REGION 3 Mid

REGION 4 Mid



A visually impressive and imposing hybrid, **PAC 050** has exceptionally large, girthy ears for a hybrid of this maturity. Combined with excellent lodging resistance as well as very good staygreen and late season plant health, **PAC 050** has something to offer silage growers in all of the main maize growing regions in New Zealand.

- **Very tall plant with strong stalks and roots**
- **Nice low ear placement results in excellent lodging resistance**
- **Very good staygreen and large, girthy, well filled ears**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 119

SILAGE CRM 90 / GRAIN CRM 90



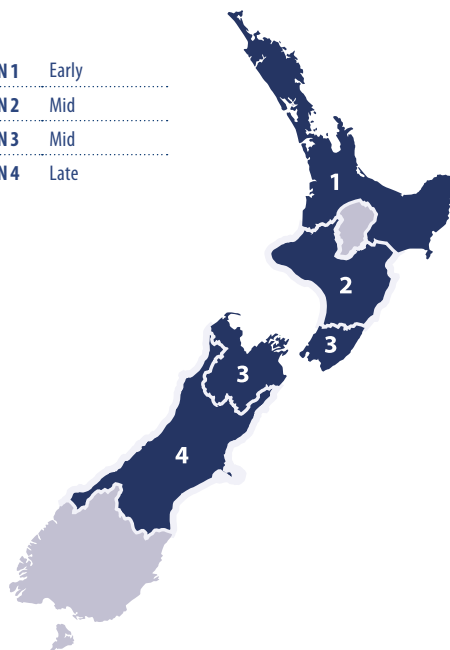
HYBRID TRAITS

Early Growth	★★★★
Drought Tolerance	★★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★★
Root Strength	★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★★

PLANTING POPULATIONS (000/HA)

Grain	90-100
Silage	95-105

REGION 1	Early
REGION 2	Mid
REGION 3	Mid
REGION 4	Late



PAC 119 is a high yielding, genuine dual purpose option for use in all the main maize growing areas of New Zealand. Whether as an early option in the upper North Island or a late option in the mid Canterbury region, **PAC 119** has the required attributes to deliver optimal results.

- Well balanced medium-tall plant with very good standability
- Very good Northern Leaf Blight tolerance and excellent stalk strength
- Excellent drought tolerance and staygreen
- AriDapt™ drought ready technology ensures reliable results across environments and seasons

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 100 (Comet)

SILAGE CRM 92

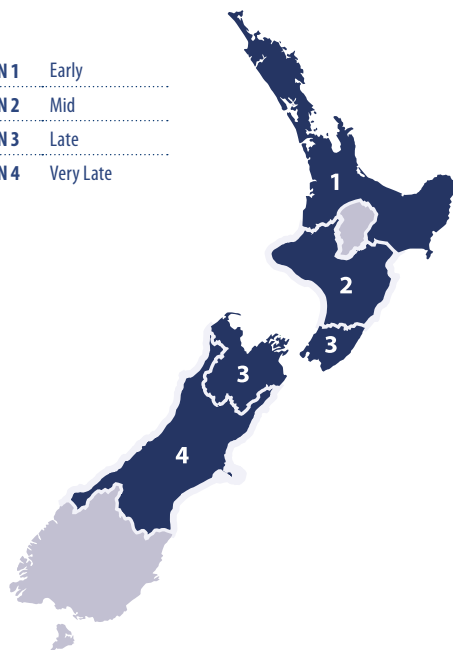
HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★★
Stalk Strength	★★★★
Root Strength	★★★
Rust Tolerance	★★★★★
Northern Leaf Blight	★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

Silage	95-105
--------	--------

REGION 1	Early
REGION 2	Mid
REGION 3	Late
REGION 4	Very Late



PAC 100 is a reliable and widely adaptable silage hybrid. It provides impressive total energy and whole plant digestibility throughout the North Island (where Northern Leaf Blight isn't a major concern) and upper South Island.

This **PAC 100** hybrid is a full maturity option in the upper South Island and a mid-maturity option in the lower North Island.

PAC 100 has a large semi-flex ear and produces plenty of bulk with high yields of medium-soft textured grain, making it an excellent early maturing hybrid choice for your dairy system.

- A widely adaptable silage hybrid with high total energy and very good staygreen for a long harvest window
- Broad leaves on a medium-tall plant provide plenty of bulk
- A high kernel-row count and deep kernels produce silage with high grain content

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 144

SILAGE CRM 94 / GRAIN CRM 94

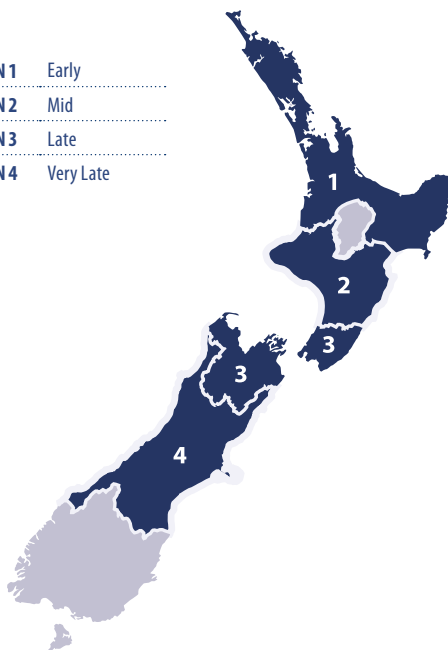
HYBRID TRAITS

Early Growth	★★★★
Drought Tolerance	★★★
Staygreen	★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★
Stalk Strength	★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★★

PLANTING POPULATIONS (000/HA)

Grain	90-100
Silage	90-105

REGION 1	Early
REGION 2	Mid
REGION 3	Late
REGION 4	Very Late



A medium-tall plant with good bulk and very good early growth, **PAC 144** performs at its best on good ground where it will reliably produce long, girthy, uniform cobs packed with large medium textured grain of excellent quality. Staygreen is good and husk cover and root strength are very good.

A very good leaf disease package protects against common rust and Northern Leaf Blight providing a reliable and high yielding early-mid maturity option desirable for silage and grain growers throughout the North Island.

- **Medium-tall plant with very good early growth**
- **Long girthy cobs with very good husk cover**
- **Very good disease package**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 249

SILAGE CRM 95 / GRAIN CRM 97



HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★★
Stalk Strength	★★★★★
Root Strength	★★★
Rust Tolerance	★★★★★
Northern Leaf Blight	★★★
Grain Drydown	★★★

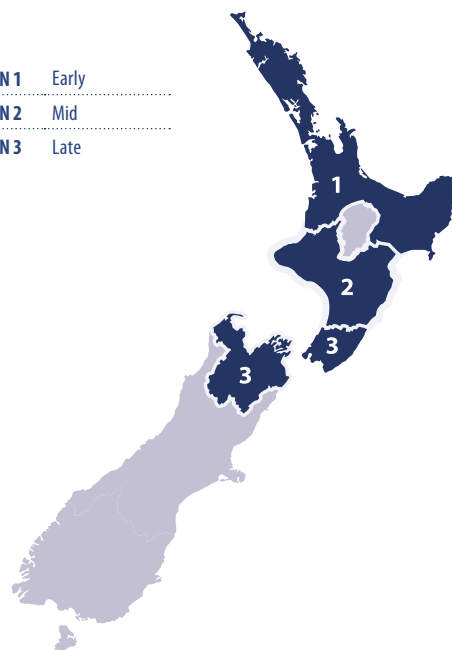
PLANTING POPULATIONS (000/HA)

Grain	90-100
Silage	95-105

REGION 1 Early

REGION 2 Mid

REGION 3 Late



PAC 249 is a reliable, high performing, dual purpose hybrid that delivers optimal yields of silage and grain across a wide range of environments and soil types. It is a medium-tall hybrid with very good staygreen and plant bulk.

Cobs are large and well filled with good sized kernels producing silage rich in grain. **PAC 249** performs particularly well on light soils, recognised as a hardy hybrid capable of outperforming hybrids in the 100-104 CRM maturity bracket.

- Mid-season dual purpose hybrid for central regions
- AriDapt™ drought ready technology ensures reliable results across environments and seasons
- Performs well at lower planting rates

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 295 (N39-Q1)

SILAGE CRM 97 / GRAIN CRM 100

HYBRID TRAITS

Early Growth	★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★★

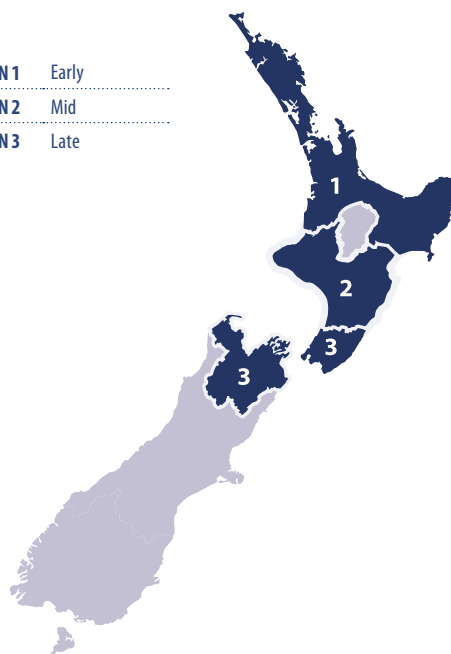
PLANTING POPULATIONS (000/HA)

Grain	85-95
Silage	90-100

REGION 1 Early

REGION 2 Mid

REGION 3 Late



While primarily targeted at the silage market, **PAC 295** can also be taken through for grain with confidence. This hybrid is characterised by a tall plant and a large flex ear giving it excellent silage yields with high grain content. It has a sound agronomic package including very good stalk strength and drought tolerance.

PAC 295 is an exciting option for silage growers in the southern North Island as a mid-maturity hybrid or in the northern North Island regions as an early maturity option.

- Early to mid-maturity silage hybrid for most North Island regions
- Tall plant with high grain content
- Excellent silage and grain yields

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 200 (Afinity)

SILAGE CRM 97 / GRAIN CRM 100

HYBRID TRAITS

Early Growth	★★
Drought Tolerance	★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★★
Grain Drydown	★★★★

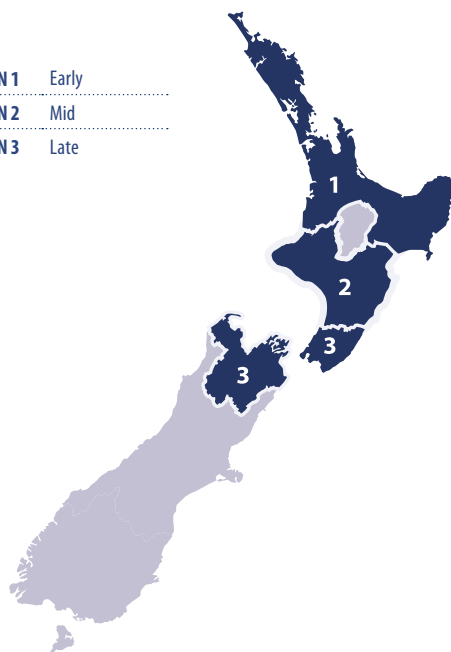
PLANTING POPULATIONS (000/HA)

Grain	85-95
Silage	90-100

REGION 1 Early

REGION 2 Mid

REGION 3 Late



PAC 200 is a medium-tall hybrid characterised by a uniform, well-filled cob providing excellent quality feed to dairy cows for high milk production and increasing cow body condition.

PAC 200 has strong agronomic traits, with very good stalk strength, excellent Northern Leaf Blight resistance, very good staygreen and a very good husk cover for maximum ear protection.

PAC 200 is suited to the southern North Island as a full maturity hybrid and as an early to mid-maturity option for the northern North Island including the East Coast.

- Full season hybrid for lower North Island
- Consistent yields with excellent feed quality
- Robust agronomic package

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 314

SILAGE CRM 101 / GRAIN CRM 101



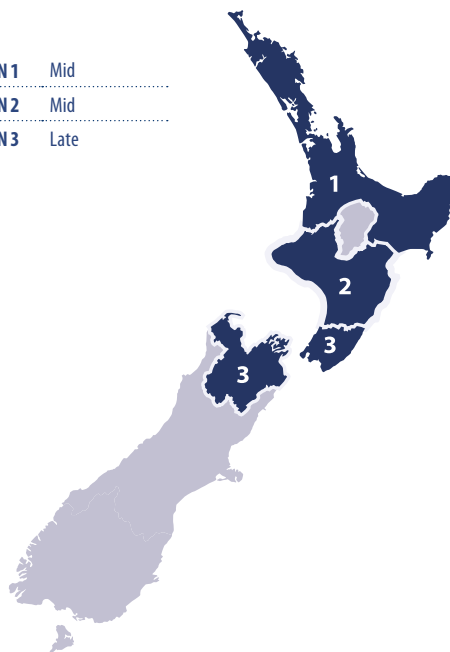
HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★★
Stalk Strength	★★★★★
Root Strength	★★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★★

PLANTING POPULATIONS (000/HA)

Grain	90-100
Silage	95-105

REGION 1	Mid
REGION 2	Mid
REGION 3	Late



PAC 314 is an attractive, medium-tall plant with good early growth and excellent drought tolerance and adaptability.

The broad semi-erect leaves and nice thick stalks of **PAC 314** provide good bulk for silage. Dent-type grain quality is very good and will be readily accepted by grain buyers and feed mills. Excellent grain and silage results to date put this hybrid at or near the head of the pack, regardless of maturity or soil type.

- Mid season dual purpose hybrid for all North Island regions
- Medium-tall, well-structured plant with plenty of eye-appeal
- AriDapt™ drought ready technology ensures reliable results across environments and seasons

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 344

SILAGE CRM 102 / GRAIN CRM 102

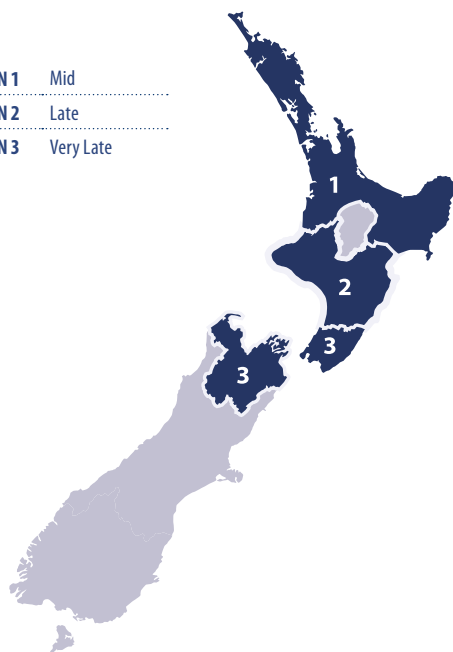
HYBRID TRAITS

Early Growth	★★★★★
Drought Tolerance	★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★★
Grain Drydown	★★★★

PLANTING POPULATIONS (000/HA)

Grain	90-100
Silage	95-105

REGION 1	Mid
REGION 2	Late
REGION 3	Very Late



PAC 344 is an exceptionally fast and strong starting hybrid and maintains this advantage throughout the season with excellent staygreen, Northern Leaf Blight resistance, very good rust tolerance and finishing ability.

PAC 344 shows excellent early growth, uniformity and vegetative growth. Drought tolerance is very good but can be improved by lowering plant population density. Grain quality is very good.

- **Mid-full season dual purpose hybrid for central and upper North Island regions**
- **Unique, medium height, compact plant with thick stalks and very broad leaves**
- **Excellent stalk strength, ear-rot and Northern Leaf Blight profiles**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 355 (G49-T9)

SILAGE CRM 104

HYBRID TRAITS

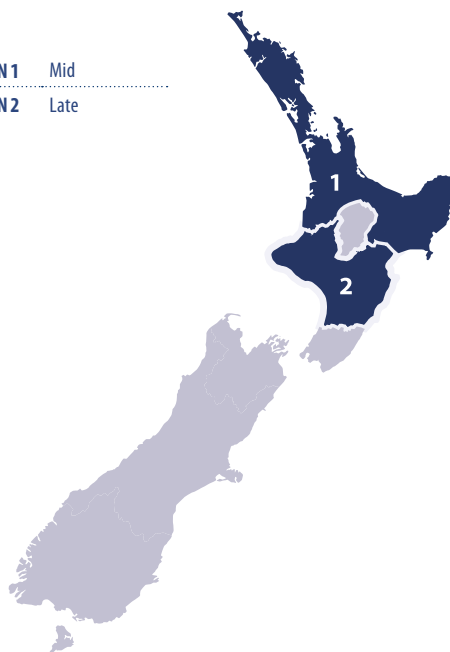
Early Growth	★★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

Silage	80-95
--------	-------

REGION 1 Mid

REGION 2 Late



PAC 355 produces a tall crop with large ears which combine to provide its high dry matter yield potential and dependable silage quality. Along with very good whole plant digestibility and total energy, it will favour both the silage grower and the silage user.

PAC 355 is widely adaptable and suitable for maize silage growers on all soil types targeting high silage yields. Moderate populations are recommended to get the best balance of cob to stover.

- **Exciting silage hybrid that delivers very good yield potential**
- **Tall dark green plant with flexible stalks and large ears**
- **Reliable agronomic traits assist in maintaining maximum yield potential**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 432

SILAGE CRM 105 / GRAIN CRM 107

HYBRID TRAITS

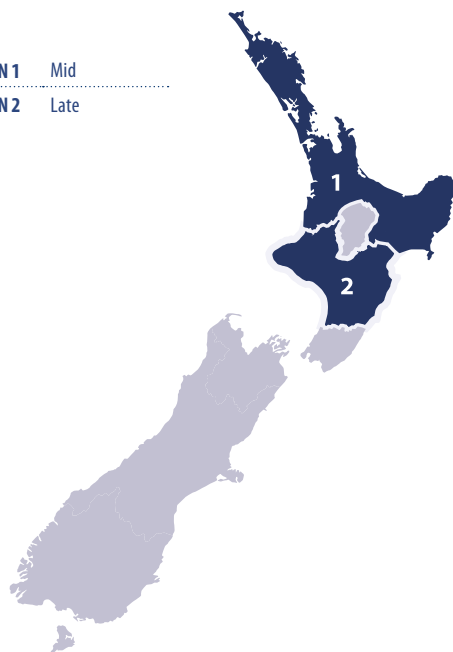
Early Growth	★★★
Drought Tolerance	★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★★
Root Strength	★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★★
Grain Drydown	★★★

PLANTING POPULATIONS (000/HA)

Grain	85-100
Silage	90-105

REGION 1 Mid

REGION 2 Late



PAC 432 is a tall but well balanced plant with large consistent ears set at a low to medium height. Early growth is typically slow but growth increases during the vegetative period resulting in a very strong and robust plant. Kernel type is medium-soft (semi dent) and kernel size is above average. Very good drought/stress tolerance, excellent stalk strength and staygreen create a solid platform for both silage and grain growers. Trial results to date put this hybrid reliably among the top performers in this very competitive maturity group.

- Tall but well balanced type, moderately leafy
- Large uniform ears typically 18 kernels around, with large kernels
- Very good drought and stress tolerance
- Excellent stalk strength and Northern Leaf Blight resistance
- Excellent staygreen and late season plant health

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 400 (Plenitude)

SILAGE CRM 107

HYBRID TRAITS

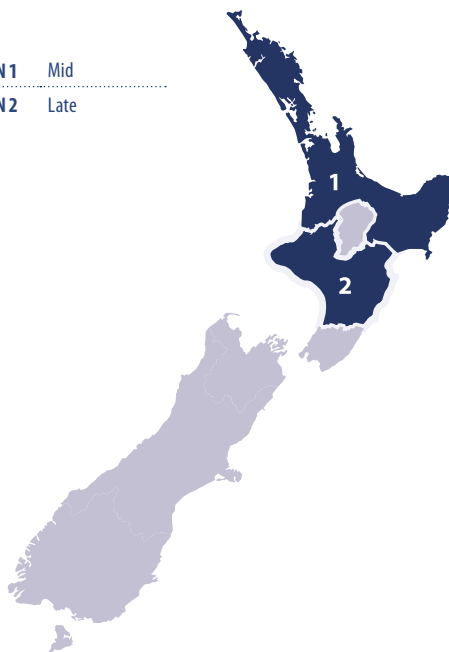
Early Growth	★★★★
Drought Tolerance	★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

Silage	90-100
--------	--------

REGION 1 Mid

REGION 2 Late



PAC 400 is a stable hybrid producing high yields of maize silage. The large leaves on this tall plant catch the eye and the medium-soft textured kernels produce high quality feed for dairy cows. With a CRM of 107, it is ideally placed as a longer hybrid in the upper North Island and East Coast.

PAC 400 has performed exceptionally well over several seasons in New Zealand. It is an ideal option for growers who require both quality and yield from a hybrid of this maturity.

- Maize silage hybrid with impressive stature and yield
- Very good stalk and root strength
- Medium-soft kernel texture

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 430

SILAGE CRM 108 / GRAIN CRM 108



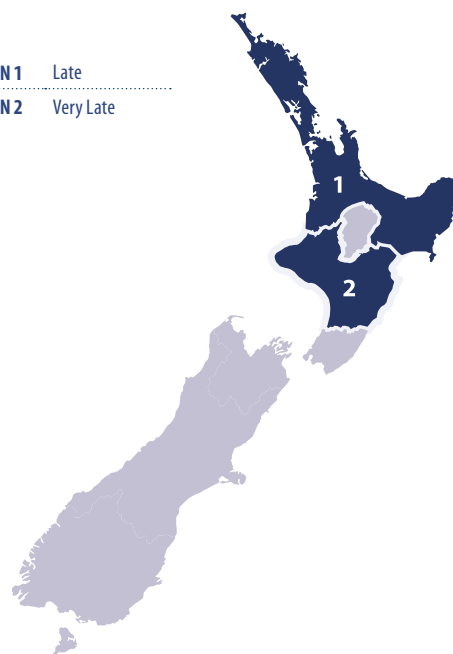
HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★★
Total Energy	★★★★★
Stalk Strength	★★★★★
Root Strength	★★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★★

PLANTING POPULATIONS (000/HA)

Grain	80-95
Silage	85-100

REGION 1 Late
REGION 2 Very Late



PAC 430 is a robust, medium-tall plant with broad leaves. This hybrid is consistently among the top performing hybrids for both grain and silage trials.

Very good staygreen, and a nice low ear height, combined with its very good stalk and excellent root strength means **PAC 430** stands very strongly.

- **Medium-tall plant**
- **AriDapt™ drought ready technology ensures reliable results across environments and seasons**
- **Well balanced canopy provides good bulk. Long, girthy ears typically 18 kernels around**
- **Excellent grain quality, very good staygreen and standability**
- **Finishes strongly owing to its excellent drought tolerance and very good late season plant health**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 456

SILAGE CRM 109 / GRAIN CRM 109

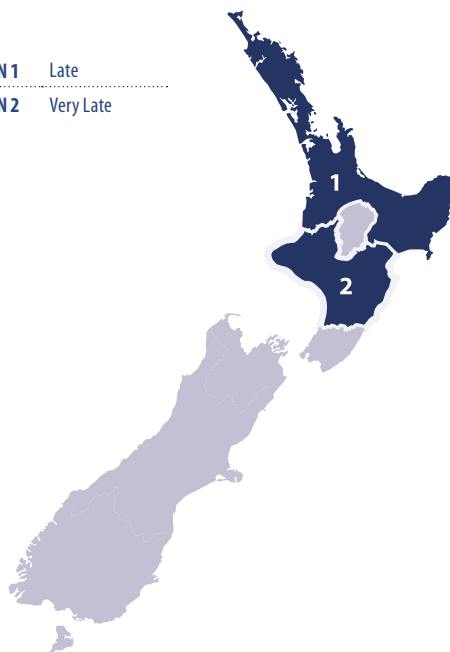
HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★★

PLANTING POPULATIONS (000/HA)

Grain	85-90
Silage	85-100

REGION 1 Late
REGION 2 Very Late



PAC 456 is a tall, high yielding dual purpose hybrid with a large bulky canopy and long harvest window. Purpose-bred in Europe for dry matter and energy production.

PAC 456 can have a high ear placement particularly if planted at high rates, this means that planting rates should not go above 90,000 seeds/ha for grain crops. However, good grain quality, yields, drydown and standability during grain drydown make this hybrid a top performer for both grain and silage. Husk cover is very good and ears are large ensuring silage of high grain content and energy.

- Full season dual purpose hybrid for northern and central regions
- Very good staygreen and a lengthy grain fill period provides a long harvest window
- Very good rust resistance and late season plant health

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 500 (Z71-F1)

SILAGE CRM 111

HYBRID TRAITS

Early Growth	★★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★★
Northern Leaf Blight	★★★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

Silage	80-95
--------	-------

REGION 1 Late



PAC 500 demonstrates very good early growth, establishing into a tall, bulky plant with large ears as well as very good staygreen which contributes to a wide harvest window. **PAC 500** has a high grain content and very good whole plant digestibility.

PAC 500 is suitable for warmer northern regions where early planting is possible. It is suited to both dairy platform and contract silage production, targeting high yields and quality silage. Dairy farmers can take advantage of its performance by planting early on the platform or on a run-off.

- **Full maturity silage hybrid developed in New Zealand by Corson Maize**
- **Very large plant with high grain yield and a sound agronomic package**
- **Excellent yield performance in this maturity**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 564

SILAGE CRM 113 / GRAIN CRM 115

HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★
Staygreen	★★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★
Stalk Strength	★★★★
Root Strength	★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	★★

PLANTING POPULATIONS (000/HA)

Grain	80-95
Silage	85-100

REGION 1 Late



PAC 564 is a unique medium, bulky hybrid in this ultra-full season bracket dominated by tall plants.

PAC 564 has shown itself to be much more resilient, adaptable and resistant to lodging than all other hybrids tested in this bracket. It has very good drought and Northern Leaf Blight tolerance and responds well to higher planting rates whilst still performing well at lower rates.

- **Bulky, medium height plant**
- **Exceptionally high and stable yields**
- **Excellent cob size and uniformity**
- **Thick stalks, strong roots and low ear placement with very good lodging resistance**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.



PAC 624

SILAGE CRM 115

HYBRID TRAITS

Early Growth	★★★
Drought Tolerance	★★★★
Staygreen	★★★★
Whole Plant Digestibility	★★★★
Total Energy	★★★★★
Stalk Strength	★★★★★
Root Strength	★★★★
Rust Tolerance	★★★
Northern Leaf Blight	★★★★
Grain Drydown	NA

PLANTING POPULATIONS (000/HA)

Silage	80-90
--------	-------

REGION 1 Very Late



PAC 624 is a purpose-bred silage hybrid for early plant situations in the warmer northern regions and is firmly positioned as a market leader in this ultra-long maturity group. Large girth cobs packed with medium soft, starchy grain combined with very good digestibility ensures silage of excellent quality is produced.

The hybrid has good standability, however the sheer size of the plants means that it can become overcrowded at high planting rates, increasing cob height and reducing standability and cob tip fill. For this reason we recommend lower than usual planting rates that will still produce very high yields.

- **Ultra-full season silage hybrid for Northland, Waikato and the Bay of Plenty**
- **Huge cobs typically 20 kernels around with large kernels**
- **Very good staygreen with a long grain fill period**

Key:

★ Poor ★★ Below Average ★★★ Good ★★★★ Very Good ★★★★★ Excellent NA - Not Applicable ID - Insufficient Data

All evaluations are not comparable to any other companies' evaluations and are based on observations by Corson Maize staff.

NEW SEED PROCESSING FACILITY

Commissioning of PGG Wrightson Seeds' Gisborne facility is now complete. The fully operational seed processing facility is the final step in a five-year development programme which has seen several stages, including relocation of the Corson Maize and PGG Wrightson Seeds research farm to an adjacent site; the building and expansion of seed dryers; the purchase of a neighbouring building, and construction of a warehouse and cool store.

International shipping delays hampered the delivery and installation of key seed processing equipment at the facility over the last year, however now that work is completed Site Manager James Henderson says, "the new facility provides a much better work environment,

which is a big thing for our people. Our last site was outdated, and we also had staff working at several locations. It's great to have everyone together at one modern purpose-built site. We now have a facility we can be proud to present to growers and customers from around New Zealand and overseas."

Brent Sycamore, PGG Wrightson Seeds Corson Maize General Manager, says "the new facility houses state-of-the-art seed drying and processing equipment which enables the business to supply high quality maize, sweetcorn, and popcorn seed to customers. Demand from customers in New Zealand and overseas continues to increase and we are very pleased to have a world-class facility in Gisborne that will support our growth into the future."

In addition to supporting farmers, the Gisborne Maize Processing facility will also create new job opportunities in the area. Corson Maize is proud to be able to contribute to the economic growth of the region and to be able to offer our employees the chance to be a part of this exciting new venture.







MAIZE SEED TREATMENT

An overview of maize seed treatment options to provide plant protection and maximise growth of your crop during seedling establishment.

MAIZE SEED TREATMENT

The application of seed treatment to maize seed is an important step to provide plant protection and growth enhancement benefits during the seedling establishment period.

The first four to six weeks after sowing is a critical period in the life of a new plant. Sowing treated seed provides protection during the germination and establishment stages when emerging seedlings are most vulnerable to attack from invasive insect pests and disease pathogens.

Seed treatment can improve seed germination, seedling emergence, plant vigour, crop establishment and total yield, helping to ensure the maize crop is on its way to reaching its full genetic potential.

All hybrids in the Corson Maize portfolio can be treated with industry-leading plant protection agents including Poncho® Votivo and Vitaflo®. Both products have a registration for maize seed treatment, with proven efficacy against insect pests and diseases in New Zealand.

BENEFITS OF SEED TREATMENT:

- Provides highly targeted protection against economically damaging insect pests and diseases during the plant establishment period, helping maximise seedling emergence, early plant development and crop yield.
- Minimises costly re-plants and lost production, protecting the maize seed investment.
- Reduced environmental impact due to very small quantities of chemical active ingredients being applied to the seed.
- With pesticides pre-applied, seed treatment products are recognised for their ease of use and safety profile, provided the appropriate handling procedures are adopted.



SEEDLING PROTECTION

The application of crop protection products such as insecticide, fungicide and a bird deterrent to seed provides a targeted and cost-effective method of protecting maize seed.

INSECTICIDE

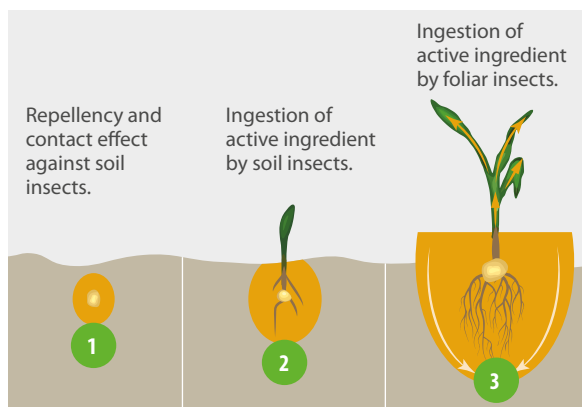


Poncho® Votivo is a seed treatment combination providing both synthetic and biological control of target pests. Poncho is the industry-leading seed-applied insecticide and includes the active ingredient clothianidin. Through its systemic mode of action and increased spectrum, Poncho provides a high level of protection against early crop pests for up to six weeks after sowing. Votivo (*Bacillus firmus* L -1582) is a world leading biological seed treatment, providing suppression against root feeding soil nematodes and improved plant health.

Poncho Votivo protects against:

- ✓ Argentine Stem Weevil (adults and larvae)
- ✓ Black Beetle (adults)
- ✓ Greasy Cutworm (larvae)
- ✓ Soil Nematodes

HOW SYSTEMIC INSECTICIDES WORK



- 1** Active ingredient is released after seed is planted forming a protective barrier around the seed.
- 2** Plant absorbs active ingredient through the roots.
- 3** Active ingredient is transported to developing foliage and is uniformly distributed in plant tissues.

FUNGICIDE



Vitaflo® is a broad spectrum, dual action (systemic and contact) fungicide which controls seed and soil borne diseases, and also acts as a plant growth stimulant. Worldwide, it is a specialised seed treatment fungicide for effective control and prevention of disease present externally and within the seeds, with an increased level of disease control.

Vitaflo is a unique fungicide and growth promotant and contains both thiram and carboxin (internationally recognised fungicides for seed protection). Thiram controls diseases borne on the outside of the seed coat and provides a protective barrier around the seed. Carboxin is a patented growth stimulant and is also recognised as one of the world's leading seed treatment fungicides. It penetrates the seed coat to control smuts and other diseases borne in the embryo and provides systemic protection against seedling rots during seedling development.

BIRD REPELLANT



Avipel® contains a naturally occurring organic substance which acts as a bird deterrent. When birds consume seeds treated with Avipel they experience an unpleasant but harmless gut reaction which they associate with the location. Birds quickly learn to avoid Avipel treated seeds and look to forage for other food sources.

Poncho® Votivo and Vitaflo® are recommended as the standard treatment to all hybrids in the Corson Maize portfolio.

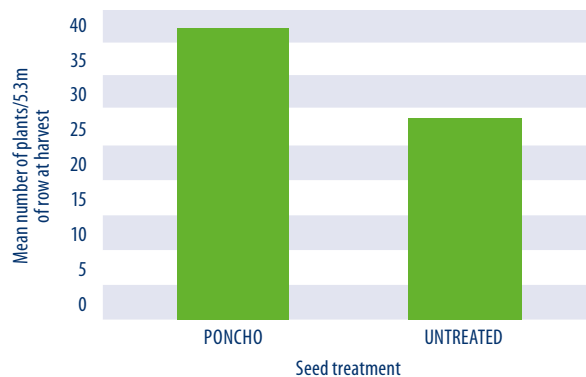
Avipel is available on request.

MAIZE TRIAL RESULTS

The following data was collected from a replicated field trial carried out by AgResearch in the Waikato region. The trial measured the effect of Poncho® seed treatment on insect pests, plant numbers and crop yield in the first six weeks of maize seedling establishment.

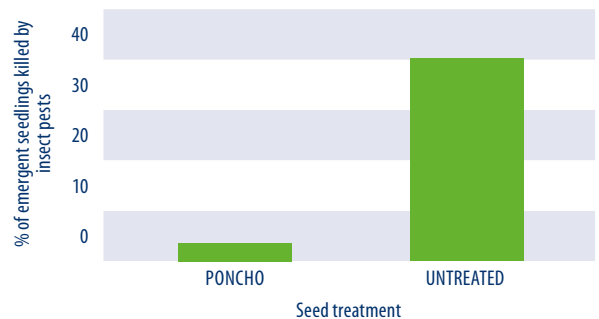
PLANT NUMBERS

The effect of seed treatment on plant numbers



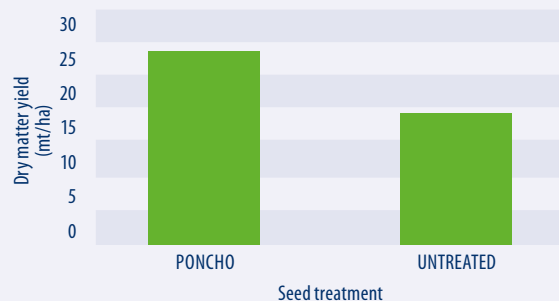
INSECT EFFICACY

The effect of seed treatment on the % of emergent seedlings killed by insect pests (Black Beetle, Argentine Stem Weevil, Greasy Cutworm) during establishment



CROP YIELD

The effect of seed treatment on crop yield



CROP YIELD & FEED VALUE

	PONCHO® TREATED SEED	UNTREATED SEED
Crop Yield (kgDM/ha)	24,600	17,110
Feed Value/ha	\$5,904	\$4,106

*Yield data extracted from AgResearch field trial in 1999/2000.

NET FINANCIAL BENEFIT

The application of Poncho® in the above trial produced an additional 7,490 kg of DM/ha over and above untreated seed, providing a net financial benefit of \$1,648/ha.

Assumptions:

- Maize silage valued at \$0.24/kgDM
- Maize seed sown at 1.25 bags/ha (100,000 seeds)
- Estimated retail cost of the Poncho treatment is \$150/ha (GST inclusive)

PRODUCT SAFETY

The seed treating process undertaken by Corson Maize ensures all seed treatment products are applied with a high degree of accuracy to every seed in order to maximise the plant protection benefits.

The application of an industry leading polymer (Peridiam® EV309) binds the active ingredients to the seed, ensuring they are delivered to the soil as required. The seed treatment polymer minimises any 'dust off', protecting the environment and ensuring the safety of seed planting operators. The polymer has also shown superior performance in terms of flow-ability of treated maize seed through drills.

When handling treated maize seed, it is important to wear protective clothing including gloves and a mask, as well as washing hands and any exposed skin prior to meals.

Treated seed should be kept out of reach of children, livestock and birds.

Store treated seed in a cool, dry environment away from direct sunlight.

Always refer to the seed treatment supplier label on maize hybrid bags for safety information before use or handling. Contact the respective seed treatment manufacturer on the hybrid bag label for any enquiries about seed treatment and additional product safety information.

Poncho Votivo is a registered trademark of BASF and is registered pursuant to the ACVM Act 1997. Vitaflo is a registered trademark of MacDermid Agricultural Solutions Ltd., is registered pursuant to the ACVM Act 1997, No. P2694 and is approved pursuant to the HSNO Act 1996, Approval Code HSR000476. Avipel is a registered trademark of Arkion Life Sciences.

For untreated seed options (for organic use) contact your local Corson Maize Sales Agronomist.



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