

TRIAL RESULTS FOR 2021/22 SELECTION

PACTS Maize Hybrids







Dear Pioneer Maize Grower.

The 2020 growing year in the UK and Ireland began with warm and dry weather. Crops that established well in the dry conditions gave good yields and were generally harvested in good time. The average dry matter yield of the Control hybrid P7892 in PACTS trials was 16.254 tonnes per hectare. This yield was nearly 0.5 tonnes below the average yield for P7892 measured over the previous 4 years.

We are very pleased as always to present the latest Pioneer Accurate Crop Testing System (PACTS) trials results. We conduct these trials every year so that we can accurately describe the performance of Pioneer Brand maize hybrids across a range of local growing conditions.

PACTS[®] hybrid performance highlights

P7326 – Extra Early

Fastest Pioneer hybrid to reach 30% dry matter content. Very good early vigour and preferred for cold sites and early harvest.

P7034 – Very Early

For high production livestock farmers. First very early maturity M³ Pioneer hybrid with dent like grain texture.

P7378 – Very Early

Very high dry matter yields for this maturity. Tall hybrid suited for the production of milk and biogas.

P7892 – Verv Early

Large stature hybrid. High dry matter yields and fast stover dry down.

P7524 – Early

Large stature hybrid with very good early vigour. High dry matter yields for this maturity.

Pioneer Brand silage inoculants

Our comprehensive proprietary range of silage inoculants have been developed to reduce dry matter losses and improve silage quality. Whether you are making grass silage in cool challenging environments or maize silage in ideal conditions, applying the most appropriate Pioneer silage inoculant can make dramatic differences to your profitability. You can see full details of our range of inoculants on pages 6 and 7.

Without the farmers and contractors who have participated in the 2020 PACTS® Trials, we would not be able to publish these results. Their practical help, patience, and frequent sound advice during the growing season make a significant contribution to each and every trial we conduct.

P7948 – Early

Very good standing ability. Suitable for cultivation on favourable sites.

P8200 – Intermediate

Very high dry matter yields. For favourable sites or planting using the Samco System*.

P8201 – Intermediate

Very high dry matter yields, good starch content and rumen degradability. For very favourable sites or planting using the Samco System*.

P8000 – Late Maturina

Good yields of high starch content silage and grain. For good to favourable locations under the Samco System*.

P8171 – Late Maturing

Very high dry matter yields. Very tall, large stature hybrid.

* The Samco System is a method of cultivating maize under plastic film.

If you would like further information on Pioneer maize or silage inoculants, please do not hesitate to contact our team of forage specialists.

Yours sincerely,

On behalf of Corteva Agriscience

1. Stanhora

Andy Stainthorpe Sales Manager, Seeds and Silage Inoculants, UK and Ireland

Your key UK, Wales and Ireland contacts

For all enquiries about Pioneer Maize contact your local Corteva representative. Their experience and local advice is available to help you maximise your success.

Mark Shaw Southern UK and South & West Wales



Mobile: 07880 407839 Email: mark.shaw@corteva.com

Beckie Cartwright Northern England & Scotland



Mobile: 07917 520707 Email: rebecca.cartwright@corteva.com

We're helping farmers to maximise their homegrown forage for a more sustainable and resilient future.

Our people, knowledge and expertise are on hand to help you grow the best quality and quantity forage for your livestock

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NURTURE your forage IMPROVE silage qualit

Andy Stainthorpe UK & Ireland

Office: 01823 334279 Mobile: 07801 183234 Email: andy.stainthorpe@corteva.com

Jonathan Bellamy

North & West

Office: 01270 619825 Mobile: 07801 183233 Email: jonathan.bellamy@corteva.com

Simon Preece South West UK

Office: 01884 861 529 Mobile: 07813 142957 Email: simonpreece62@gmail.com









The purpose of PACTS® trials

Whether a particular maize hybrid realises its full genetic potential depends largely upon how well it has adapted to the local environment and how successfully it is managed. The PACTS[®] Trial Results are provided to help growers identify which Pioneer hybrids are best suited to their own location and circumstances. In addition, they indicate agronomic techniques that may help you maximise the yield and quality of your crop.

Layout

Each PACTS® trial is established within a commercial crop of maize and is planted and harvested at a time determined by the host farmer with the assistance of our forage specialists. Trials are managed as part of the field and the results therefore reflect the effect of local weather conditions and commercial crop management practices.

A PACTS[®] trial is generally comprised of between 15 and 20 plots. The plots are planted in identically sized marked areas adjacent to each other across a uniform part of the selected field. Each plot is usually 6 or 8 rows wide and 50 metres in length. Typically, every fourth strip is a Control variety. The Control hybrid provides data that is used to offset the variable effects of soil type changes across a trial. In 2020 the Control hybrid was the hybrid P7892.

Sites

Each trial site is classified as being 'Favourable' or 'Less Favourable' depending upon the heat accumulation that would typically be measured at that location. The results from individual trials are detailed in this book, however due to space restrictions occasionally some trials are not shown. The results from trials not shown are available on request.

Competitor hybrids

Typically four or five varieties from competitor plant breeding companies that have been widely grown commercially in recent years are included in the PACTS® trials each year. The competitor hybrids sown in 2020 were cito kws, glory, autens kws, ambition and gatsby.

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Analysis

Representative samples from every PACTS® plot are taken at harvest and promptly oven dried to determine percentage dry matter content. Dried samples are subsequently tested in a Near Infra Red Spectrophotometer (NIRS) machine at a Pioneer laboratory. Results from these tests accurately indicate multiple quality parameters including starch content, whole plant digestibility and neutral detergent fibre (NDF). The large number of PACTS[®] locations, and the samples tested, ensure that the data generated can be regarded as a reliable indicator of the maize silage hybrid performance a purchaser can expect.





Maize hybrid selection

The selection of a particular hybrid for cultivation inevitably varies according to the different criteria a grower has. In many situations yield is of paramount importance but earliness of maturity is usually another critical factor. Other factors such as standing power, silage nutritional quality and end-use intentions e.g. whole plant silage fed to livestock or used for biogas production should be taken into account. No single hybrid will suit all situations.

The environment	Crop husbandry	Hybrid genetics		
Latitude	Seedbed quality	Yield potential		
Soil type	Drilling date	Early vigour		
Altitude	Planting population	Disease resistance		
Aspect	Fertiliser policy	Maturity		
Shelter	Use of the Samco System	Standing power		
Harvesting and storage	Use on-farm	Sell off-farm		
Harvesting method	As feed	Silage quality		
Harvest timing	For biogas production	Consistent supply		
Storage method	Ration supplementation	Value versus other feeds		
Feed-out methods	Ration consistency	Local demand		

	Historical forage PACTS [®] trials results summary										
Year Control Hybrid		Fresh Weight Yield tonnes/ hectare (t/ha)	Dry Matter (%)	Dry Matter Yield (t/ha)	Starch (%)	Starch Yield Converted to Grain (t/ha at 15% Moisture)	Sugar (%)	Whole Plant Digestibility (%)	Neutral Detergent Fibre (%)	Number of Sites	
2020	P7892	45.488	35.7	16.254	30.9	7.692	5.2	67.6	40.6	16	
2019	P7892	43.243	39.3	17.000	34.7	9.019	4.5	68.8	41.4	19	
2018	P7892	41.295	37.0	14.800	31.5	7.130	3.8	69.6	41.4	14	
2017	P7892	48.662	35.8	18.000	32.6	8.975	5.1	70.4	37.9	19	
2016	P7892	47.607	35.8	17.043	33.2	8.660	5.6	70.4	40.9	14	
2015	PR39V43	47.603	31.9	15.200	25.0	5.807	9.8	69.5	43.2	15	
2014	PR39V43	47.822	36.2	17.300	34.1	9.022	5.4	68.8	40.5	18	
2013	PR39V43	44.695	35.6	15.906	35.3	8.587	4.0	71.6	38.9	13	
2012	PR39V43	37.966	32.4	12.300	29.4	5.531	4.9	70.1	43.0	12	
2011	JUSTINA	48.100	33.1	15.950	31.1	7.586	2.1	70.1	43.6	14	
2010	JUSTINA	45.994	33.7	15.500	36.2	8.582	1.4	70.6	41.7	10	
2009	JUSTINA	55.161	31.0	17.100	27.2	7.114	4.8	66.0	nr	13	
2008	JUSTINA	46.108	30.4	14.027	30.0	6.425	3.4	69.1	nr	16	
2007	JUSTINA	55.853	29.9	16.700	30.0	7.662	3.3	68.2	nr	14	
2006	JUSTINA	45.042	35.3	15.900	37.0	8.998	3.0	nr	nr	13	
2005	JUSTINA	54.633	31.3	17.100	33.4	8.735	2.6	nr	nr	16	
2004	JUSTINA	50.774	32.3	16.400	33.9	8.503	2.7	nr	nr	15	
2003	JUSTINA	50.629	31.8	16.100	33.0	8.126	3.0	nr	nr	17	
Average		48.443	33.1	16.035	32.1	7.888	4.1	69.5	41.2	15	

NOTE: All trials included in this summary were grown in the open; nr = not recorded



Growing a maize crop that meets all requirements depends upon selecting a hybrid with the most appropriate genetic potential and then managing that hybrid in a manner that will meet the chosen objectives.

The following factors are just some of those that can have a major influence on the quantity, quality and value of the maize crop produced.

Product	Forage	Improvement purpose				
PIONEER® 11GFT	Grass and wholecrop cereal silages	Fermentation, animal performance and fibre digestibility, aerobic stability				
PIONEER® 11CFT	Maize silage	Fermentation, animal performance and fibre digestibility, aerobic stability				
PIONEER® 11CH4	A wide range of high dry matter silages	Aerobic stability and gas production				
PIONEER® 11GH4	High dry matter grass and cereal silages	Fermentation and aerobic stability of grass and wholecrop silages intended for gas production				

Traditional technology with Rapid React

Product	Forage	Improvement purpose			
PIONEER® 11G22 RAPID REACT. AEROBIC STABILITY	High dry matter grass, wholecrop cereal and pea/cereal silages	Fermentation, animal performance and aerobic stability			
PIONEER® 11C33 RAPID REACT. AEROBIC STABILITY	Maize silage	Fermentation, animal performance and aerobic stability			
PIONEER® 11B91 RAPID REACT. AEROBIC STABILITY	Crimped maize grain	Fermentation, animal performance and aerobic stability			
PIONEER® 1188	Grass silage below 30% dry matter	Fermentation and animal performance			
PIONEER® 11A44	A wide range of high dry matter silages	Aerobic stability			
PIONEER® 11XH4	A wide range of high dry matter silages	Fermentation and aerobic stability in a wide range of silages intended for gas production			



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PIONEER BRAND SILAGE INOCULANT GUIDE



Whole plant forage, favourable sites, 2017 - 2020

Number of Years Tested	Number of Sites	Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yi	ield (Tonnes Dry Matte	er/Hectar	re)
				0	2 4	6 8 10 12	14 16	18 20 22
3	18	53.443	37.1%	P7948	32.3%	5%		113%
1	3	59.886	32.6%	P8329	30.8%	5%		111%
1	5	46.973	41.2%	X75R466	34.2%	3%		110%
4	27	55.995	34.0%	P8201	32.1%	5%		108%
2	9	60.857	31.2%	P8171	29.3%	5%		108%
4	31	55.243	33.2%	P8200	30.4%	4%		104%
4	32	48.509	37.6%	P7524	32.5%	6%		104%
1	7	42.572	42.8%	X75N901	34.7%	3%		103%
2	14	44.662	40.1%	asgaard*	37.0%	4%		102%
2	15	45.069	39.2%	gatsby*	35.0%	4%		100%
4	34	45.487	38.7%	P7892 (C)	33.9%	4%		100%
4	32	42.701	41.0%	ambition*	35.7%	4%		99%
4	34	41.764	41.7%	P7034	36.3%	4%		99%
1	3	44.253	38.9%	P7404	34.1%	2%		98%
2	18	41.113	41.8%	autens kws*	35.6%	3%		98%
3	18	41.783	40.5%	P7378	36.2%	4%		96%
2	16	41.075	41.1%	glory*	35.2%	4%		96%
2	14	41.036	41.1%	avitus kws*	35.3%	3%		96%
2	14	43.844	38.1%	agiraxx*	35.0%	4%		95%
4	34	40.553	41.2%	P7326	35.0%	4%		95%
1	7	30.350	45.8%	augustus kws*	38.9%	3%	79%	
1	8	30.599	45.4%	cito kws*	39.7%	3%	79%	

Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)	Dry Matter Yield Advantage / Disadvantage vs Control (%)
68%	9.813	13%
66%	9.199	11%
68%	10.113	10%
68%	9.359	8%
66%	8.506	8%
66%	8.536	4%
68%	9.060	4%
67%	9.652	3%
71%	10.112	2%
70%	9.435	0%
69%	9.128	0%
70%	9.567	-1%
70%	9.657	-1%
68%	8.960	-2%
69%	9.342	-2%
70%	9.374	-4%
69%	9.098	-4%
69%	9.101	-4%
69%	8.954	-5%
69%	8.952	-5%
71%	8.275	-21%
72%	8.447	-21%

Whole plant forage, less favourable sites, 2017 - 2020 Number of Years Number Tested of Sites Fresh Yield (t/ha) Dry Matter (%) 54 267 31.6% 10 39.0% 10 41.888

34.9%

33.4% 38.5%

39.6%

39.8% 38.5%

39.2%

35.6%

39.5%

35.2%

37.2% 36.0%

45.9% 31.122 43.9%

46.475

48.661

42.063

40.798 40.346

41.132 40.212

44 265

39.609

43.284

40 711

41.752 29.824

Number of Years Number Tested of Sites

Hybrid	Yield (Tonnes Dry Matter/Hec 0 2 4 6 8 10 12 14 1	-	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)	Dry Matter Yield Advantage / Disadvantage vs Control (%)
P7948	28.1% 109%	109%	67%	7.355	9%
autens kws*	34.1% 104%	104%	69%	8.518	4%
P7524	31.5% 103%	103%	69%	7.833	3%
X75N901	32.8% 103%	103%	67%	8.153	3%
P7034	35.0% 103%	103%	70%	8.683	3%
P7378	34.1% 103%	103%	69%	8.426	3%
avitus kws*	35.8% 102%	102%	70%	8.796	2%
asgaard*	33.5% 101%	101%	70%	8.103	1%
P7326	34.0% 100%	100%	69%	8.198	0%
P7892 (C)	31.0% 100%	100%	69%	7.474	0%
ambition*	35.2% 99%	99%	70%	8.406	-1%
P7404	33.1% 97%	97%	66%	7.725	-3%
agiraxx*	32.0% 96%	96%	68%	7.417	-4%
X75R466	31.4% 95%	95%	68%	7.208	-5%
cito kws*	40.1% 87%	87%	71%	8.390	-13%
augustus kws*	36.0% 87%	87%	71%	7.519	-13%

Whole plant forage, less favourable sites, 2020

er IS	Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Ho	ectare)	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)	Dry Matter Yield Advantage / Disadvantage vs Control (%)
			(0 2 4 6 8 10 12 14	16 18 20 22			
	48.860	33.6%	P7524	29.9% 8%	107%	67%	7.500	7%
	51.689	30.7%	X75N901	29.6% 5%	103%	66%	7.175	3%
	43.623	35.9%	P7034	34.0% 5%	102%	69%	8.139	2%
	47.019	32.8%	P7892 (C)	27.9% 7%	100%	67%	6.577	0%
	41.986	36.5%	P7326	31.9% 5%	100%	68%	7.475	0%
	41.747	36.4%	ambition*	32.8% 5%	99%	69%	7.637	-1%
	45.978	32.4%	P7404	29.8% 4%	97%	65%	6.798	-3%
	37.730	39.2%	glory*	34.6% 4%	96%	68%	7.837	-4%
	31.680	42.3%	cito kws*	36.0% 3%	87%	70%	7.383	-13%

Whole plant forage, favourable sites, 2020

Number of Years Tested	Number of Sites	Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	,	rield	(Tonne	es Dry	Mat	ter/H	ecta	re)			
				0	2 4	6	8	10	12	14	16	18	20	22	
1	8	52.501	37.6%	P7948	33.5%		4	%					115	5%	
1	3	58.478	32.7%	P8329	30.0%		4%						111%		
1	5	45.869	41.3%	- X75R466	33.3%		3%						110%		
1	7	54.411	34.3%	P8201	32.8%		4%						108%		
1	8	54.265	33.8%	P8200	29.2%		4%						107%		
1	7	45.832	38.9%	P7524	32.1%		5%					10	4%		
1	7	41.572	42.9%	X75N901	33.8%		3%					10	3%		
1	8	44.418	38.8%	P7892 (C)	33.0%		4%					100	%		
1	8	41.682	40.9%	gatsby*	35.2%		3%					99%	6		
1	8	40.674	41.6%	ambition*	36.0%		3%					98%	5		
1	8	39.107	43.2%	autens kws*	34.8%		2%					98%	6		
1	3	43.213	39.0%	P7404	33.2%		1%					98%	5		
1	8	37.238	45.0%	P7326	35.2%		3%					97%			
1	8	37.330	44.3%	P7034	34.3%		3%					96%	5		
1	8	29.880	45.5%	cito kws*	38.7%		3%			799	%				

Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)	Dry Matter Yield Advantage / Disadvantage vs Control (%)
68%	10.114	15%
64%	8.773	11%
67%	9.645	10%
68%	9.381	8%
64%	8.206	7%
67%	8.764	4%
66%	9.205	3%
67%	8.705	0%
68%	9.192	-1%
69%	9.310	-2%
67%	8.994	-2%
66%	8.545	-2%
67%	9.017	-3%
66%	8.669	-4%
71%	8.056	-21%

Starch Yield & % Stover Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

D

Pioneer hybrids for energy production

The most appropriate maize hybrid for biogas production in any one situation depends on multiple factors. Maize hybrid selection for biogas production should always begin with a field assessment to determine appropriate

hybrid maturity. PACTS trials enable Pioneer to predict gas yields that can be achieved from different Pioneer hybrids cultivated on different sites in the open and under film.

Methane gas yield predictions from PACTS® trials

Favourable Sites Grown In The Open								
2017 - 2020								
	Metha	ne Yield*						
Hybrid	Litres / ha	Litres / kg Dry Matter	Dry Matter %	No. Yrs Tested	No. Sites Tested			
P7948	6,110,909	308	37.1%	3	18			
X75R466	6,023,318	311	41.2%	1	5			
P8201	5,879,017	308	34.0%	4	27			
P8329	5,855,649	300	32.6%	1	3			
P8171	5,765,690	303	31.2%	2	9			
asgaard*	5,680,798	317	40.1%	2	14			
P7524	5,649,634	309	37.6%	4	32			
X75N901	5,601,831	308	42.8%	1	7			
gatsby*	5,559,492	315	39.2%	2	15			
P8200	5,523,482	300	33.2%	4	31			
ambition*	5,513,683	315	41.0%	4	32			
P7892 (C)	5,501,588	313	38.7%	4	34			
P7034	5,485,215	315	41.7%	4	34			
autens kws*	5,372,647	312	41.8%	2	18			
P7378	5,335,300	315	40.5%	3	18			
avitus kws*	5,304,328	314	41.1%	2	14			
P7404	5,303,283	309	38.9%	1	3			
glory*	5,262,291	312	41.1%	2	16			
agiraxx*	5,233,667	312	38.1%	2	14			
P7326	5,208,831	312	41.2%	4	34			
cito kws*	4,519,279	324	45.4%	1	8			
augustus kws*	4,433,123	319	45.8%	1	7			

•	Less Favourable Sites Grown In The Open									
•										
4	2017 - 2020									
		Metha	ne Yield*	_		No.				
	Hybrid	Litres / ha	Litres / kg Dry Matter	Dry Matter %	No. Yrs Tested	Sites Tested				
	P7948	5,243,106	306	31.6%	3	10				
	avitus kws*	5,136,422	317	39.8%	2	12				
	autens kws*	5,106,129	313	39.0%	2	10				
	P7034	5,095,286	315	38.5%	4	33				
1	P7378	5,058,694	313	39.6%	4	18				
	P7524	5,056,710	311	34.9%	4	31				
	asgaard*	5,022,164	316	38.5%	2	3				
	X75N901	4,976,792	306	33.4%	1	6				
	ambition*	4,953,458	316	39.5%	4	33				
	P7326	4,952,396	314	39.2%	4	33				
	P7892 (C)	4,924,092	312	35.6%	4	34				
	glory*	4,740,437	315	39.8%	3	22				
	agiraxx*	4,683,002	310	37.2%	2	17				
1	P7404	4,613,036	302	35.2%	1	6				
1	cito kws*	4,411,552	321	45.9%	1	8				
	augustus kws*	4,360,078	318	43.9%	1	9				

C = Control Hybrid * = Competitor Hybrid (O) = Hybrid Grown In The Open on a Samco System Site

Methane yield figures are determined using a calculation based on the Weissbach formula. This formula predicts gas output based on the value of the key substrates in the forage prior to fermentation. The calculation of Fermentable Organic Dry Matter, or 'FoTs', is a key part of the formula and the FoTs is determined using actual yield and quality results from PACTS® trials.

Less Favourable Sites Grown Under The Samco System										
2014 - 2020										
	Metha	ne Yield*	_							
Hybrid	Litres / ha	Litres / kg Dry Matter	Dry Matter %	No. Yrs Tested	No. Sites Tested					
P8171	5,723,862	309	31.0%	4	9					
P7932	5,471,004	312	32.7%	5	13					
P8201	5,428,466	310	31.5%	6	23					
P7034	5,174,540	312	37.3%	4	15					
P8329	5,159,173	302	30.4%	4	9					
P8200 (C)	5,143,189	305	30.8%	7	38					
P8000	4,980,464	309	31.0%	7	17					
P7948	4,930,070	307	33.9%	3	11					
X75N901	4,907,168	313	35.8%	1	5					
P7378	4,886,557	315	37.5%	5	10					
P7892	4,861,753	316	34.9%	7	26					
P7524	4,683,472	316	34.4%	7	21					
P7326	4,599,506	315	38.2%	7	26					
ambition*	4,372,941	327	36.4%	2	3					
P7404	4,186,854	301	35.9%	1	4					
P7326 (O)	3,798,931	312	29.4%	3	3					

Grain trials, grown in the open 2015 - 2020

Number of Years Tested	Number of Sites	Fresh Yield (t/ha)	Grain Moisture at Harvest (%)	Hybrid Yield (Tonnes Dry Matter,		/ Matter/H	Hectare)					
				C		2	4	6	8	10	12	14
2	6	13.362	32.0%	P7948			10.687 1	:/ha	1		111%	
3	3	13.676	34.0%	P8329			10.611 t/	ha			110%	
1	3	12.857	32.2%	P7460		1	0.252 t/h	a		10	6%	
4	7	11.656	29.0%	P7034		9	.736 t/ha			101%		
6	12	11.539	29.0%	P7326 (C)		9.6	40 t/ha			100%		
6	9	12.009	32.5%	P8000		9.5	30 t/ha			99%		
3	4	11.832	33.4%	P7932		9.27	75 t/ha			96%		
Grain	n Yield, Toi	nnes/Hecte	are at 15% Moisture	Relative Yi	eld Ir	ndex (C = 100	%)				

C = Control Hybrid; * = Competitor Hybrid, ** = Trade name following official registration

PACTS[®] hybrid maize agronomic descriptions for 2021

		Soil	Type Preferen	ce	540			Stover	PACTS®
Hybrid	PACTS® Maturity Description	Light	Medium	Heavy	FAO Rating (Silage)	Early Vigour	Resistance to Lodging	dry-down at Maturity	Eyespot Resistance Scores*
P7326	Extra Early	÷		\rightarrow	180	Very Good	8.2	Fast	6.2
P7378	Very Early	÷			180	Very Good	7.4	Fast	4.4
P7034	Very Early	÷			190	Good	8.2	Moderate	5.4
P7892	Early	÷			200	Very Good	8.3	Very Fast	6.3
P7524	Early	÷		\rightarrow	200	Very Good	8.3	Moderate	7.6
P7948	Early	÷	\rightarrow		230	Good	8.3	Moderate	7.8
P7460	Intermediate	÷			230	Average	8.3	Slow	-
P8201	Intermediate	÷	\rightarrow		230	Very Good	8.1	Moderate	6.5
P8200	Intermediate	÷		\rightarrow	230	Good	7.8	Moderate	8.6
P7932	Late	÷			220	Good	8.2	Moderate	7.0
P8000	Late	÷			230	Average	8.2	Moderate	8.6
P8307	Very Late	÷			240	Average	8.2	Slow	-
P8329	Very Late	÷			250	Very Good	8.2	Moderate	-
P8171	Very Late	÷			250	Good	7.8	Slow	-

*Scores based on a 1 - 9 scale where 9 = high resistance; data sourced from registration trials and PACTS® trials depending upon hybrid

Yield Advantage / Disadvantage vs Control (%)
11%
10%
6%
1%
0%
-1%
-4%

Growing maize under film

The Samco System provides extra heat during the first few weeks of growth when the plant can be challenged by cold temperatures. Over the course of the growing season the System significantly increases heat accumulation which can bring the harvest date forward or increase yield. Different hybrids provide the grower with quite different results when planted using the Samco System. Samco and Maizetech have worked closely with Pioneer for many years to understand exactly how different varieties behave when sown under film.



Extensive trials and commercial experience have shown that certain maize hybrids are more suited to sowing under film than others. Some are clearly unsuitable. Site assessments and intended planting date should determine the maturity of the hybrid to be sown and then other desired features such as high relative yield and standing ability can help identify the specific hybrid to be sown.



P7326 – Extra Early Maturity

P7326 has been tested over seven years and 26 sites under the Samco System. P7326 has proven itself to be a prime choice for growers on very marginal locations, producing very high starch content silage with good dry matter yields for this maturity. P7326 should also be considered as an appropriate choice on other locations where the sowing date is significantly delayed.

P7034 – Verv Early Maturity

Whilst it is slightly slower than P7326 to break through the film P7034 has given good dry matter yields of very high starch content. P7034 is an early flowering dent hybrid, that produces grain with a very high level of ruminal degradable starch and can be considered for marginal sites or sites where an early harvest is required.

P7892 – Very Early Maturity

This very early maturing, high starch content hybrid has proven itself to be a reliable option for Samco System growers on marginal sites and situations where planting is delayed. P7892 is slightly later to mature than P7326 but with higher dry matter yield potential.

P7948 – Early Maturity

P7948 has been tested under film on 11 sites over three years and it has given a high silage yield, only 4% below P8200, but with a dry matter content 3.1% higher. P7948 can be sown on favourable sites under film providing it is sown in the normal planting period, and less favourable sites under film except for those in more northerly counties in the UK and Ireland and where sowing is delayed

P8200 – Intermediate Maturity

Over 38 locations and seven years of PACTS testing, P8200 has given very consistent and reliable results across very different types of seasons and sites. It produces very high dry matter yields of silage with a good starch content. P8200 penetrates film well, dries down rapidly at maturity and is suited to most locations when planted at the normal time.

P8201 – Intermediate Maturity

This is a very large stature hybrid that is very good at penetrating film and has good vigour after emergence through the film. Very high dry matter yields of good starch content have been recorded and P8201 is a hybrid to consider for growers on favourable sites wishing to maximise the dry matter yield under film. P8201 produces starch with good levels of rumen degradability.

"A fundamental part of the Samco System is the use P8000 – Late Maturity of maize hybrids that we know are suited for cultivation P8000 has now proven itself to be a stiff strawed hybrid under film", says Sam Shine of Samco. "Samco work capable of producing high starch content silages across closely with Pioneer and the PACTS trials to identify a wide range of sites using the Samco System. P8000 hybrids that respond significantly to the conditions that is suited to favourable sites when planted in the normal exist under the film and then learn how to manage them planting period. in the field."

P8171 – Very Late Maturity

P8171 was launched in 2019. It is a very late maturing hybrid with a high dry matter yield potential. It should only be sown in the UK and Ireland on favourable sites under film where an early harvest is not required. P8171 is not suitable for late planting.

The agronomic practices required for cultivating maize under film vary significantly to those normally adopted when cultivating maize in the open. In addition to selecting a suitable hybrid it is important that appropriate advice is sought on all the other appropriate crop management techniques relevant to this method of cultivation.

Strip trials, whole plant forage, 2014 - 2020

lumber of Years Tested	Number of Sites	Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yield (Tonne			es Dry 10	Matt	
4	9	59.606	31.0%	P8171	32.0%		4%			
5	13	53.618	32.7%	P7932	29.8%		5%			
6	23	55.580	31.5%	P8201	30.5%	Ę	5%			
4	9	56.102	30.4%	P8329	29.1%		6%			
7	38	54.776	30.8%	P8200 (C)	30.4%	4	4%			
4	15	44.629	37.3%	P7034	35.4%		3%			
7	17	52.080	31.0%	P8000	30.0%	5	%			
3	11	47.467	33.9%	P7948	31.7%	4	4%			
1	5	43.843	35.8%	X75N901	36.3%		3%			
5	10	41.291	37.5%	P7378	36.2%		4%			
7	26	43.841	34.9%	P7892	32.6%	5	%			
					-					
7	21	42.983	34.4%	P7524	32.8%		6%			
7	26	38.192	38.2%	P7326	35.4%	2	4%			
1	,	70 7/ 0	75.0%	P7404	29.8%	3%				
I	4	38.748	35.9%	P7404	27.8%	3%				

Starch Yield & %

RESULTS SUMMARIES – SAMCO SYSTEM

Samuel J. Shine.

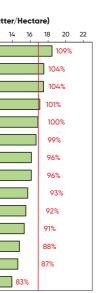
For further details about the Samco System please contact Samco, Tuogh, Adare, County Limerick Tel: 00 353 (0)61 396176, Website: www.samco.ie



EY Entreprene Of The Year







Whole Plant gestibility (%)	Starch Yiel Converted t Grain at 159 Moisture (t/h
68%	9.032
69%	7.984
68%	8.154
66%	7.600
67%	7.842
69%	9.000
68%	7.388
68%	7.799
69%	8.728
69%	8.577
70%	7.640
70%	7.418
70%	7.891
65%	6.345

Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

Selected multiple year paired comparisons

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P8201	1	23	31.2%	16.834	103.7%	68.7%	30.3%	5.0%	11.4	311	5,260,630	85.0%	4.333
P8200 (C)	6	23	30.5%	16.227	100.0%	67.6%	30.2%	4.1%	11.2	307	4,984,174	76.0%	3.726
P7948	3	11	33.4%	14.549	95.5%	66.1%	31.1%	4.1%	10.9	304	4,414,082	88.2%	3.991
P8200 (C)	5		30.3%	15.230	100.0%	65.6%	29.9%	4.2%	10.9	302	4,604,896	76.0%	3.457
P8171	4	8	31.5%	18.024	102.4%	68.9%	32.6%	4.5%	11.4	314	5,653,224	89.1%	5.233
P8201	4	8	32.1%	17.610	100.0%	68.7%	31.6%	5.1%	11.4	313	5,506,265	85.0%	4.732
P7034	,	15	36.2%	14.794	98.7%	69.1%	35.1%	3.5%	11.4	313	4,625,909	85.8%	4.456
P8200 (C)	4	15	29.8%	14.984	100.0%	67.1%	30.2%	4.6%	11.1	306	4,597,882	68.3%	3.090
P8000	7	17	32.6%	16.987	95.6%	69.7%	32.2%	4.5%	11.5	313	5,322,484	77.1%	4.212
P8200 (C)	/	17	32.4%	17.767	100.0%	68.6%	32.6%	3.6%	11.4	310	5,496,383	68.3%	3.963
P7524	7	21	34.4%	14.630	87.6%	69.0%	31.8%	5.6%	11.4	313	4,583,104	-	-
P8200 (C)	/	21	30.8%	16.700	100.0%	66.4%	29.5%	4.0%	11.0	302	5,032,969	-	-
P7892	7	26	34.5%	14.908	90.8%	69.5%	32.0%	4.6%	11.5	314	4,687,242	-	-
P8200 (C)	/	20	30.4%	16.418	100.0%	66.4%	29.8%	3.5%	11.0	302	4,958,576	-	-
P7326	7	26	37.5%	14.144	86.5%	69.9%	35.0%	4.0%	11.6	316	4,471,870	79.1%	3.923
P8200 (C)	/	20	30.2%	16.349	100.0%	67.2%	30.1%	4.3%	11.1	306	5,000,466	68.3%	3.365
P7034	4	12	35.4%	14.080	87.3%	69.2%	34.6%	3.6%	11.5	314	4,420,215	85.8%	4.186
P8201	4	IZ	31.0%	16.120	100.0%	68.3%	30.2%	4.9%	11.3	311	5,039,999	77.3%	3.765
P7948	3	9	33.5%	14.521	89.1%	66.3%	31.2%	4.1%	11.0	304	4,414,193	88.2%	3.993
P8201	3	Y Y	31.9%	16.298	100.0%	67.0%	30.5%	4.5%	11.1	307	5,020,869	85.0%	4.217
P7892	4	17	34.3%	15.113	92.0%	70.0%	32.4%	4.5%	11.6	316	4,785,239	-	-
P8201	6	17	31.2%	16.428	100.0%	68.2%	30.1%	4.4%	11.3	310	5,110,990	-	-



RESULTS SUMMARIES – SAMCO SYSTEM SITES

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Technical Hotline: 0800 689 8899 E-mail: ukhotline@corteva.com USE PLANT PROTECTION PRODUCTS SAFELY. Always read the label and pro

Introducing the M³ brand

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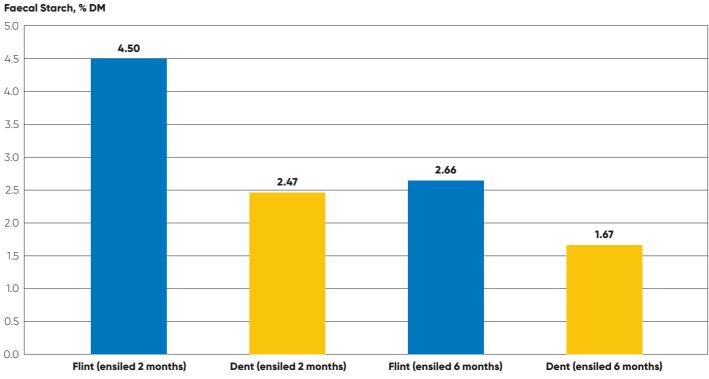
Given the high feed quality provided by dent starch type maize hybrids, Pioneer plant breeders have been focused on developing just such hybrids so they are well adapted to cultivation in challenging maritime environments. This research resulted in the first sales in 2018 of P7034, a dent hybrid that has the early vigour and early flowering characteristics necessary

for sowing in the UK and Ireland.

From 2021, any Pioneer dent type hybrid sold in the UK or Ireland that reaches a high rumen degradable starch content level along with a high yield stability will be described as an M³ hybrid. P7034 meets this criterion already and, as such, has been designated an M³ hybrid for the first time.

Faecal starch comparison table

Faecal starch content by lactating cows fed flint or dent maize silage stored two to six months prior to feeding (genetic type P<0.01 and storage time P<0.01)



Source: 2015 French Dairy Trial, University of Lorraine Laflotte, A, L. Aubry, B. mahanna and F. Owens. Proceedings 2016 JAM Meeting Abstract 15902, Salt Lake City, July 2016

Ruminal degradation of dent starch is faster than that of flint starch, especially just after ensiling. The faster ruminal degradation rate of the starch found in P7034 can significantly aid feeding transition from old to new crop maize silage. To achieve this more effective transition P7034 should be clamped last and fed first. This sequencing ensures it will be fed ahead of any new crop silage that may have been made from a flint starch type hybrid with its associated lower level of rumen degradable starch.

The M³ genetic type also allows greater harvesting flexibility because the dent starch remains degradable at an advanced stage of maturity. This flexibility gives P7034 the ability to generate high yields of digestible energy.

PACTS trials now include extensive testing for rumen degradable starch. These test results clearly show the advantages of a Pioneer M³ hybrid like P7034 through its high level of rumen degradable starch, its yield stability, and its consequent advantage in terms of rumen degradable starch vield.

P7034 Very Early Maturity, FAO 180 Primary End Use: Forage, **Grain and Biogas**

P7034 is a very early maturity hybrid with a dent grain texture. Pioneer classifies P7034 as an M³ hybrid. This classification highlights advantages associated with a dent starch type, high starch content and yield stability.

P7034 is the first Pioneer hybrid of this maturity that has dent type grain and it has been bred specifically for the cool maritime locations





found in the UK and Ireland. P7034 flowers early and produces silage with a very high starch content and starch yield. Dent type starch degrades at a significantly faster rate in the rumen than flint type starch. This is especially so just after ensiling before silage acids have a chance to degrade the protein that protects starch in flint type hybrids.

Due to its faster ruminal starch degradation rate, silage crops of P7034 should be clamped last and fed first thereby improving the feeding transition from any old to new crop maize silage.

Hybrid Characteristics

- Dent grain texture with fast ruminal starch degradability
- Very high whole plant digestibility
- Very high starch content
- Early flowering

Grown In The Open

- Widely adapted to all but the coldest maize growing areas of the UK and Ireland
- Ensile last and feed first

Grown Using The Samco System

- P7034 will produce silage of a very high starch content and a very high starch yield
- P7034 can be grown under film on favourable and less favourable sites. On less favourable sites it should be sown in the normal planting window

Hybrid Specific Agronomic Advice

	Grown In The Open	Samco System					
Early Vigour	Good	Good					
Lodging Resistance ¹	8.2						
Eyespot Resistance Score ¹	5.4						
Stover Dry-Down Rate	Fast	Very Fast					
Forage Seeding Rate ² (seeds/ha)	103,000 to 110,000	110,000					
Film Penetration Ability ³	Not Applicable	Average ³					

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

Tables ranked in order of decreasing rumen degradable starch yield; hybrids included were tested at a minimum of three locations in each region.

P7034

versus other selected hybrids tested for rumen degradable starch

	Favourable PACTS Sites 2017-2020											
				Rumen Degradable Starch Analyses								
Hybrid	Dry Matter Content (%)	Starch Content (%)	Sites Tested	Years Tested	Pioneer Relative Rumen Degradable Starch Content (%)	Pioneer Relative Rumen Degradable Starch Yield; Tonnes Dry Matter / Hectare						
P7034	41.7%	36.3%	16	3	83.6%	5.281						
P7948	37.1%	32.3%	14	2	76.1%	4.881						
P8201	34.0%	32.1%	8	2	79.2%	4.844						
P7524	37.6%	32.5%	10	3	78.7%	4.662						
X75R466	41.2%	34.2%	4	1	69.5%	4.597						
asgaard*	40.1%	37.0%	4	1	69.4%	4.587						
P7326	41.2%	35.0%	18	3	75.3%	4.409						
P7892 (C)	38.7%	33.9%	18	3	72.6%	4.333						
gatsby*	39.2%	35.0%	12	2	68.4%	4.219						
ambition*	41.0%	35.7%	17	3	65.4%	4.090						
autens kws*	41.8%	35.6%	13	2	64.2%	3.924						
cito kws*	45.4%	39.7%	7	1	70.1%	3.872						
P8200	33.2%	30.4%	3	1	68.8%	3.842						
glory*	41.1%	35.2%	11	2	64.1%	3.813						
avitus kws*	41.1%	35.3%	11	2	61.6%	3.668						
agiraxx*	38.1%	35.0%	4	1	62.1%	3.636						

	Less Favourable PACTS Sites 2017-2020										
		Starch	Rumen Degradable Starch Analyses								
Hybrid	Hybrid Dry Matter Content (%) Co		Sites Tested	Years Tested	Pioneer Relative Rumen Degradable Starch Content (%)	Pioneer Relative Rumen Degradable Starch Yield; Tonnes Dry Matter / Hectare					
P7034	38.5%	35.0%	19	3	88.7%	5.074					
P7378	39.6%	34.1%	3	3	83.2%	4.623					
P7326	39.2%	34.0%	22	3	81.3%	4.391					
cito kws*	45.9%	40.1%	7	1	75.7%	4.182					
P7524	34.9%	31.5%	10	3	79.1%	4.082					
P7948	31.6%	28.1%	8	2	83.8%	4.065					
avitus kws*	39.8%	35.8%	11	2	68.3%	3.961					
ambition*	39.5%	35.2%	22	3	69.1%	3.829					
autens kws*	39.0%	34.1%	8	1	67.9%	3.811					
P7892 (C)	35.6%	31.0%	22	3	76.6%	3.776					
glory*	39.8%	35.5%	19	3	69.0%	3.713					
agiraxx*	37.2%	32.0%	7	1	61.3%	2.999					

HYBRID DESCRIPTIONS



P7034 selected paired comparisons favourable sites



Calculated ioneer Ru Megajoules Calculated Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha) No. Years Tested Organic Matter Methane Dry itarch (%) Me Sugai (%) Production Tonnes Dry Index (%) nergy /Kg Dry Matter roductior (l/ha) Degradable Starch (%) Sites (%) (litres/kg Dry Matter) Digestibility (%) Matter/ha) P7034 71.4% 321 5,524,583 83.3% 5.328 41.6% 17.254 104.8% 37.1% 4.1% 11.8 2 16 42.0% 16.470 36.5% 3.7% 11.5 64.8% 3.893 glory* 100.0% 69.7% 316 5,198,781 P7034 11.6 315 5,464,661 83.9% 5.272 41.9% 17.362 99.7% 70.1% 36.2% 4.0% 4 32 40.9% 17.416 100.0% 69.8% 35.8% 3.9% 11.6 315 5,485,641 65.7% 4.094 ambition* P7034 35.6% 3.7% 11.2 309 5,441,023 84.8% 5.322 44.2% 17.620 99.1% 67.7% 15 40.6% 17.778 100.0% 36.0% 3.8% 11.5 314 5,580,189 68.1% 4.352 gatsby* 69.2% P7034 44.3% 16.544 121.6% 66.3% 34.3% 3.2% 11.0 303 5.003.930 85.2% 4.831 45.5% 100.0% 38.7% 2.7% 11.7 318 4,337,978 69.0% 3.636 cito kws* 13.608 70.6% 11.2 310 5.273 5,394,905 84.9% P7034 43.4% 17.425 102.4% 67.9% 35.7% 3.8% 2 18 autens kws* 42.7% 17.022 100.0% 68.2% 36.3% 2.8% 11.3 311 5,312,192 63.9% 3.947 P7034 41.7% 17.417 104.2% 70.2% 36.3% 4.0% 11.6 315 5,485,215 83.9% 5.299 34 4 P7326 41.2% 16.709 100.0% 35.0% 4.3% 11.4 312 5,208,831 68.9% 75.0% 4.392

P7034

selected paired comparisons less favourable sites



	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7034	3	21	39.3%	15.981	108.0%	69.7%	35.4%	4.0%	11.5	315	5,034,023	88.3%	4.998
glory*		21	40.6%	14.793	100.0%	69.0%	35.0%	3.3%	11.4	313	4,646,978	68.0%	3.517
P7034			38.6%	16.334	104.1%	69.8%	34.6%	3.9%	11.5	314	5,127,945	88.2%	4.989
ambition*	4	32	39.6%	15.689	100.0%	70.2%	35.1%	3.8%	11.6	316	4,972,909	68.3%	3.763
P7034	1	8	35.9%	15.646	116.8%	68.6%	34.0%	4.7%	11.4	311	4,857,815	90.4%	4.808
cito kws*		0	42.3%	13.397	100.0%	69.7%	36.0%	3.4%	11.5	316	4,237,645	74.9%	3.617
P7034		9	38.9%	15.652	99.0%	67.8%	33.5%	4.3%	11.2	310	4,868,362	93.4%	4.897
autens kws*	2	9	40.3%	15.811	100.0%	66.7%	33.6%	2.9%	11.0	308	4,903,584	71.8%	3.821
P7034	4	33	38.6%	16.169	102.7%	70.0%	35.0%	3.9%	11.6	315	5,085,454	88.2%	4.991
P7326	4	33	39.3%	15.741	100.0%	69.5%	33.9%	4.4%	11.5	314	4,942,839	81.1%	4.333

C = Control Hybrid; * = Competitor Hybrid

These results confirm the dent type hybrid P7034 is both fully adapted to typical UK conditions and has produced high dry matter content silage with a very high content of highly ruminal degradable starch.



HYBRID DESCRIPTIONS

P7326 Extra Early Maturity, FAO 180 Primary End Use: Forage, Biogas and Grain

P7326 was the biggest selling maize hybrid in the UK in 2020 (source: Kynetec, Amis® Seed)

PACTS results show P7326 is clearly an obvious choice for growers who are seeking a hybrid that will reach 30% dry matter quickly and produce good yields of high starch content silage. P7326 has shown a high degree of adaptation to cultivation on less favourable locations where heat is often limiting. It is also suited to favourable locations wherever an early harvest is required. P7326 has demonstrated very good early vigour.



Hybrid Characteristics

- Fastest Pioneer hybrid to reach 30% dry matter
- Tall hybrid for such an early maturity
- Very good early vigour
- High starch content silage with good whole plant digestibility

Grown In The Open

- $\boldsymbol{\cdot}$ On both favourable and less favourable sites
- Where early vigour and rapid early growth is important
- For production of dry grain or grain for crimping on all but marginal sites

Grown Using The Samco System

- High comparative dry matter yields on the coldest sites e.g. sites in Northern Ireland and south west Scotland
- High starch yields for this maturity
- $\boldsymbol{\cdot}$ On more favourable locations when sowing is delayed



Hybrid Specific Agronomic Advice										
Grown In The Open Samco										
Early Vigour	Very Good	Very Good								
Lodging Resistance ¹	8.2									
Eyespot Resistance Score ¹	6	.2								
Stover Dry-Down Rate	Fast	Very Fast								
Forage Seeding Rate ² (seeds/ha)	103,000 to 110,000	110,000								
Film Penetration Ability ³	Not Applicable	Good ³								

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7326

hybrids ranked by highest dry matter content PACTS® trials, 2017-2020

Less Favourable Sites											
Hybrid	Dry Matter Content at Harvest (%)	No. of Years	No. of Sites								
augustus kws*	45.8	1	7								
cito kws*	45.4	1	8								
autens kws*	41.8	2	18								
P7034	41.7	4	34								
P7326	41.2	4	34								
avitus kws*	41.1	2	14								
glory*	41.1	2	16								
ambition*	41.0	4	32								
P7378	40.5	3	18								
asgaard*	40.1	2	14								
gatsby*	39.2	2	15								
P7892 (C)	38.7	4	34								
agiraxx*	38.1	2	14								
P7524	37.6	4	32								
P7948	37.1	3	18								
P8201	34.0	4	27								
P8200	33.2	4	31								
P8329	32.6	1	3								
P8171	31.2	2	9								

P7326 selected paired comparisons less favourable sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7326	3	21	40.0%	15.687	106.0%	69.0%	33.9%	4.4%	11.4	313	4,924,623	80.5%	4.285
glory*	5	21	40.6%	14.793	100.0%	69.0%	35.0%	3.1%	11.4	313	4,646,978	68.5%	3.545
P7326			39.4%	15.897	101.3%	69.3%	33.8%	4.5%	11.5	313	4,986,744	81.3%	4.367
ambition*	4	32	39.6%	15.689	100.0%	70.2%	35.1%	3.8%	11.6	316	4,972,909	69.1%	3.805
P7326	1	8	36.5%	15.338	114.5%	67.5%	31.9%	5.3%	11.2	308	4,728,297	82.6%	4.037
cito kws*			42.3%	13.397	100.0%	69.7%	36.0%	3.4%	11.5	316	4,237,645	77.5%	3.739
P7326			39.3%	15.741	100.1%	69.5%	33.9%	4.3%	11.5	314	4,942,839	81.3%	4.340
P7892 (C)	4	33	35.6%	15.720	100.0%	68.9%	31.0%	5.0%	11.4	312	4,914,590	76.6%	3.732
P7326	4	33	39.3%	15.741	100.0%	69.5%	33.9%	4.4%	11.5	314	4,942,839	81.1%	4.333
P7034			38.6%	16.169	102.7%	70.0%	35.0%	3.9%	11.6	315	5,085,454	88.2%	4.991
P7326			39.4%	15.242	100.0%	70.4%	35.1%	3.6%	11.6	316	4,813,778	78.1%	4.182
P7378	4	18	38.9%	15.473	101.5%	69.9%	34.3%	4.0%	11.6	315	4,865,705	76.8%	4.079
P7326	4	30	39.8%	15.789	100.0%	69.5%	33.9%	4.5%	11.5	314	4,959,260	81.6%	4.369
P7524			35.6%	16.328	103.4%	68.5%	31.5%	6.0%	11.3	311	5,084,976	79.2%	4.068

C = Control Hybrid; * = Competitor Hybrid

P7524 Early Maturity, FAO 200 **Primary End Use: Forage and Biogas**

P7524 is a striking early maturity hybrid which combines very good early vigour with a tall growth habit. P7524 has given very high dry matter yields of good starch content.



It will suit growers seeking to produce a large quantity of early to mature silage, and also those aiming to maximise biogas production. P7524 has a notable level of resistance to Eyespot (Aureobasibium zeae).

Hybrid Characteristics

- Tall, large stature
- Very good early vigour
- Good comparative resistance to Eyespot (Aureobasibium zeae)

Grown In The Open

• On good to favourable sites where higher dry matter yields are sought

Grown Using The Samco System

- On less favourable sites in the UK
- On good sites in southern and midland counties of Ireland, along with favourable, sheltered sites in more northerly counties.

Hybrid Specific Agronomic Advice											
Grown In The Open Samco System											
Early Vigour	Very Good	Very Good									
Lodging Resistance ¹ 8.3											
Eyespot Resistance Score ¹	7.	6									
Stover Dry-Down Rate	Moderate	Fast									
Forage Seeding Rate ² (seeds/ha)	93,000 - 103,000	98,000 – 103,000									
Film Penetration Ability ³	Not Applicable	Good									

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7524 selected paired comparisons favourable sites

_	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7524	4	30	37.6%	18.063	103.7%	68.2%	32.6%	5.5%	11.3	310	5,609,179	75.2%	4.429
ambition*		50	40.9%	17.426	100.0%	69.9%	35.8%	3.9%	11.6	315	5,492,481	65.1%	4.066
P7524			39.3%	10.70/	107.0%	67.7%	77.0%	5.4%	11.2	710	E 700 E/F	75 59/	((0)
P7524	2	14	39.3%	18.386	103.9%	67.7%	33.2%	5.4%	11.2	310	5,702,565	75.5%	4.602
gatsby*	_		40.4%	17.701	100.0%	69.5%	36.0%	4.0%	11.5	315	5,572,416	67.7%	4.319
P7524	4	32	37.6%	18.217	103.5%	68.3%	32.6%	5.6%	11.3	310	5,661,748	75.3%	4.477
P7892 (C)		52	38.7%	17.597	100.0%	69.5%	34.0%	4.5%	11.5	313	5,513,385	69.5%	4.161
P7524	- 4	32	37.6%	18.217	104.6%	68.3%	32.6%	5.6%	11.3	310	5,661,748	75.1%	4.464
P7034	4	52	41.6%	17.416	100.0%	70.5%	36.4%	4.1%	11.7	316	5,497,788	82.8%	5.243

C = Control Hybrid; * = Competitor Hybrid



HYBRID DESCRIPTIONS

P7892 Early Maturity, FAO 200 **Primary End Use: Forage and Biogas**

P7892 is a very early maturity and well proven hybrid launched in 2012. It is the designated Control hybrid for the PACTS trials due to the consistency it has shown to many different types of locations.

P7892 has very good early vigour and no major agronomic weaknesses. Growers planting in the open and looking for high yields with good reliability often choose P7892. Those growing under film in cold locations, or planting late, have also found it to be a successful choice.

Hybrid Characteristics

- Large stature hybrid
- Very good early vigour
- Very fast stover dry down at maturity

Grown In The Open

 Suitable for favourable sites or less favourable sites with light soil

Grown Using The Samco System

- In the least favourable locations e.g. Northern Ireland, South West Scotland and West Wales providing it is planted during the normal sowing period
- On other warmer sites when planting is delayed



Hybrid Specific Agronomic Advice										
Grown In The Open Samco System										
Early Vigour	Very Good	Very Good								
Lodging Resistance ¹ 8.3										
Eyespot Resistance Score ¹	6	.3								
Stover Dry-Down Rate	Very Fast	Very Fast								
Forage Seeding Rate ² (seeds/ha)	103,000 - 110,000	110,000								
Film Penetration Ability ³	Not Applicable	Good								

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P7892

selected paired comparisons favourable sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7892 (C)	2	16	39.5%	17.166	104.2%	69.8%	35.1%	4.4%	11.6	317	5,435,190	73.5%	4.424
glory*	2	10	42.0%	16.470	100.0%	69.7%	36.5%	3.7%	11.5	316	5,198,781	64.8%	3.893
P7892 (C)	4	32	38.6%	17.513	100.6%	69.2%	33.9%	4.4%	11.5	312	5,473,607	72.8%	4.327
ambition*	4	32	40.9%	17.416	100.0%	69.8%	35.8%	3.9%	11.6	315	5,485,641	65.6%	4.084
P7892 (C)	2	15	40.1%	17.732	99.7%	68.5%	34.9%	4.0%	11.3	311	5,522,070	72.2%	4.465
gatsby*	2		40.6%	17.778	100.0%	69.2%	36.0%	3.8%	11.5	314	5,580,189	68.0%	4.347
P7892 (C)	2	18	39.6%	17.454	102.5%	68.5%	34.6%	4.1%	11.3	312	5,439,682	72.6%	4.385
autens kws*	2	10	42.7%	17.022	100.0%	68.2%	36.3%	2.8%	11.3	311	5,312,192	64.2%	3.970
P7892 (C)			38.7%	17.601	105.3%	69.2%	33.9%	4.4%	11.5	313	5,501,588	72.6%	4.333
	4	34	30.7%	17.001	105.3%	09.2%	33.9%	4.4%	11.5	313	3,301,366	72.0%	4.555
P7326			41.2%	16.709	100.0%	68.9%	35.0%	4.3%	11.4	312	5,208,831	75.3%	4.409
P7892 (C)	4	34	38.7%	17.601	101.1%	69.2%	33.9%	4.4%	11.5	313	5,501,588	72.8%	4.348
P7034	4	54	41.7%	17.417	100.0%	70.2%	36.3%	4.0%	11.6	315	5,485,215	83.9%	5.299

P7892

selected paired comparisons Samco System sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7892	7	26	34.5%	14.908	90.8%	69.5%	32.0%	4.6%	11.5	314	4,687,242	-	-
P8200 (C)		20	30.4%	16.418	100.0%	66.4%	29.8%	3.5%	11.0	302	4,958,576	-	-
P7892	(17	34.3%	15.113	92.0%	70.0%	32.4%	4.5%	11.6	316	4,785,239	-	-
P8201	6	17	31.2%	16.428	100.0%	68.2%	30.1%	4.4%	11.3	310	5,110,990	-	-
P7892	4	14	34.5%	14.381	96.9%	69.9%	33.4%	5.1%	11.6	317	4,568,480	-	-
P7034	4	14	36.7%	14.846	100.0%	69.4%	35.9%	3.3%	11.5	314	4,655,424	-	-

P7948 Early Maturity, FAO 230 Primary End Use: Forage, **Biogas and Grain**

P7948 was launched very successfully in 2019. It is a hybrid suitable for sowing on favourable sites in the open and the best less favourable locations under film providing it is sown within the normal planting period. P7948 is a multipurpose hybrid having given high yields of quality forage suitable for livestock and biogas production along with high yields of grain when combined.

P7948 has been tested on 18 favourable forage PACTS sites sown in the open over three years and has given exceptional yields for its maturity. The dry matter yield of P7948 measured over this period was 12.8% higher than the Control hybrid P7892 with a dry matter content only 1.6% lower.

P7948 combines very good standing power with very good resistance to eyespot and its plant stature is often particularly large when grown in the open. P7948 has been tested under film on 11 sites over three years and it has given a high silage yield, only 4% below P8200, but with a dry matter content 3.1% higher.

P7948 holds top place in PACTS trials for predicted gas production on favourable sites in the open and it holds top position for grain yield in the PACTS multiple year grain results summary.

Hybrid Characteristics

- Large stature hybrid
- Very good standing ability
- Very good resistance to eyespot and fusarium

Grown In The Open

P7948 is suitable for cultivation on favourable sites

Grown Using The Samco System

- P7948 can be sown on favourable sites providing it is sown in the normal planting period
- P7948 can be sown on less favourable sites, except for those in more northerly counties in the UK and Ireland and where sowing is delayed



P7948

selected paired comparisons favourable sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (I/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7948	3	18	38.5%	19.843	113.6%	67.6%	33.3%	4.3%	11.2	307	6,092,807	76.5%	5.056
ambition*	5	10	42.1%	17.465	100.0%	69.3%	36.1%	3.8%	11.5	314	5,495,842	66.5%	4.192
P7948	2	15	38.5%	20.232	113.8%	67.8%	33.9%	4.2%	11.2	308	6,225,366	75.9%	5.201
gatsby*	2	15	40.6%	17.778	100.0%	69.2%	36.0%	3.8%	11.5	314	5,580,189	68.0%	4.347
P7948	3	17	37.9%	19.960	115.9%	67.6%	33.3%	4.4%	11.2	307	6,132,640	76.5%	5.093
autens kws*	5		42.8%	17.229	100.0%	68.1%	36.3%	2.8%	11.3	311	5,371,467	64.2%	4.021
P7948	3	18	38.5%	19.843	112.8%	67.6%	33.3%	4.3%	11.2	307	6,092,807	75.8%	5.007
P7892 (C)	5	10	40.1%	17.597	100.0%	68.5%	34.9%	4.0%	11.3	312	5,485,291	72.3%	4.445
P7948	3	16	38.6%	19.894	100.0%	68.0%	34.3%	3.9%	11.3	309	6,023,919	73.6%	5.030
P7524		10	39.0%	18.143	91.2%	66.8%	32.8%	5.3%	11.1	307	5,631,124	76.4%	4.539
P7948	3	17	38.9%	19.966	100.0%	67.8%	33.8%	4.2%	11.2	308	6,144,015	74.5%	5.033
P8200	5		34.8%	18.913	94.7%	65.6%	31.2%	4.2%	10.9	301	5,696,089	65.7%	3.873
P7948	3	16	38.6%	19.894	100.0%	68.0%	34.3%	3.9%	11.3	309	6,023,919	74.2%	5.070
P8201	5	10	35.1%	19.305	97.0%	68.4%	34.4%	4.7%	11.3	312	6,156,846	80.3%	5.340

P7948

selected paired comparisons Samco System Sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7948	7	11	33.4%	14.549	95.5%	66.1%	31.1%	4.1%	10.9	304	4,414,082	88.2%	3.991
P8200 (C)	5		30.3%	15.230	100.0%	65.6%	29.9%	4.2%	10.9	302	4,604,896	76.0%	3.457
P7948	- 3	Q	33.5%	14.521	89.1%	66.3%	31.2%	4.1%	11.0	304	4,414,193	88.2%	3.993
P8201	5	7	31.9%	16.298	100.0%	67.0%	30.5%	4.5%	11.1	307	5,020,869	85.0%	4.217
P7948	7	6	34.2%	15.692	89.8%	65.3%	31.5%	2.9%	10.8	301	4,714,480	-	-
P7932	5	6	33.8%	17.473	100.0%	67.6%	30.0%	4.4%	11.2	309	5,392,775	-	-

Hybrid Spe	Hybrid Specific Agronomic Advice									
	Grown In The Open	Samco System								
Early Vigour	Good	Good								
Lodging Resistance ¹	8.3									
Eyespot Resistance Score ¹	-	-								
Stover Dry-Down Rate	Moderate	Good								
Forage Seeding Rate ² (seeds/ha)	98,000 to 103,000	103,000								
Film Penetration Ability ³	Not Applicable	Good ³								

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8200 Intermediate Maturity, FAO 230 Primary End Use: Forage

P8200 is a tall, large stature, intermediate maturity hybrid ideally suited to cultivation on a wide range of sites under film. It is also suitable for sowing on favourable sites in the open. P8200 has given very high dry matter yields of silage with good starch content. A key feature of P8200 is that the stover dries down quickly once it reaches physiological maturity. P8200 has shown performance consistency in the UK and Ireland over the last 5 years.

Hybrid Characteristics

- Tall, large stature hybrid
- Usually double cobs when grown under film

Grown In The Open • On favourable locations

Grown Using The Samco System

- On all but the least favourable sites in UK and Ireland
- Switch to an earlier hybrid if planting is delayed past second week in May

Intermediate Maturity, FAO 230 Primary End Use: Forage and Biogas

P8201 has given extremely high dry matter yields when grown under film on good to favourable sites in the UK and Ireland. It has also given very high yields when grown on the most favourable sites in the open in England.

This very tall large stature hybrid produces silage of a good starch content. P8201 has a dent like starch type and generates high yields of rumen degradable starch. P8201 penetrates film easily.

Hybrid Specific Agronomic Advice										
	Grown In The Open	Samco System								
Early Vigour	Very Good	Very Good								
Lodging Resistance ¹ 8.1										
Eyespot Resistance Score ¹	6	.5								
Stover Dry-Down Rate	Moderate	Fast								
Forage Seeding Rate ² (seeds/ha) 98,000 98,000 98,000										
Film Penetration Ability ³	Very Good									

¹ Score on a 1-9 scale where 9 = very resistant

 $^{\,2}\,$ Assumes plant establishment losses of less than 5% $\,$

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8201 paired Samco sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7034	4	12	35.4%	14.080	87.3%	69.2%	34.6%	3.6%	11.5	314	4,420,215	85.8%	4.186
P8201	-	12	31.0%	16.120	100.0%	68.3%	30.2%	4.9%	11.3	311	5,039,999	77.3%	3.765
P8000	6	11	32.0%	15.756	86.6%	68.8%	29.6%	4.9%	11.4	310	4,888,607	77.1%	3.591
P8201	0		32.5%	18.185	100.0%	71.0%	32.9%	4.9%	11.8	318	5,799,676	77.3%	4.627
P7524	6	11	34.6%	14.239	85.9%	70.2%	32.5%	5.3%	11.6	317	4,519,656	-	-
P8201	0		32.4%	16.580	100.0%	70.0%	32.2%	4.4%	11.6	316	5,239,573	-	-
P7892	6	17	34.3%	15.113	92.0%	70.0%	32.4%	4.5%	11.6	316	4,785,239	-	-
P8201	0	17	31.2%	16.428	100.0%	68.2%	30.1%	4.4%	11.3	310	5,110,990	-	-
P7948	3	9	33.5%	14.521	89.1%	66.3%	31.2%	4.1%	11.0	304	4,414,193	88.2%	3.993
P8201			31.9%	16.298	100.0%	67.0%	30.5%	4.5%	11.1	307	5,020,869	85.0%	4.217
P8171	4	8	31.5%	18.024	102.4%	68.9%	32.6%	4.5%	11.4	314	5,653,224	89.1%	5.233
P8201	4	0	32.1%	17.610	100.0%	68.7%	31.6%	5.1%	11.4	313	5,506,265	85.0%	4.732

C = Control Hybrid; * = Competitor Hybrid

Hybrid Specific Agronomic Advice					
	Grown In The Open	Samco System			
Early Vigour	Good	Good			
Lodging Resistance ¹ 7.8					
Eyespot Resistance Score ¹ 8.6					
Stover Dry-Down Rate	Moderate	Fast			
Forage Seeding Rate ² (seeds/ha)	98,000	98,000 – 103,000			
Film Penetration Ability ³	Not Applicable	Good			

¹ Score on a 1-9 scale where 9 = very resistant

² Assumes plant establishment losses of less than 5%

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

P8200 paired Samco sites

	No. Years Tested	No. Sites	Dry Matter (%)	Yield (Tonnes Dry Matter/ha)	Yield Index (%)	Wholeplant Organic Matter Digestibility (%)	Starch (%)	Sugar (%)	Megajoules Metabolisable Energy /Kg Dry Matter	Calculated Methane Production (litres/kg Dry Matter)	Calculated Methane Production (l/ha)	Pioneer Rumen Degradable Starch (%)	Pioneer Rumen Degradable Starch Yield (Tonnes Dry Matter/ha)
P7932	5	13	33.5%	17.368	103.9%	69.1%	30.2%	4.5%	11.4	313	5,427,826	-	-
P8200 (C)		15	31.6%	16.711	100.0%	67.2%	30.9%	3.6%	11.1	305	5,102,599	-	-
P7524	_		34.4%	14.630	87.6%	69.0%	31.8%	5.6%	11.4	313	4,583,104	-	-
P8200 (C)	7	21	30.8%	16.700	100.0%	66.4%	29.5%	4.0%	11.0	302	5,032,969	-	-
P7892	7	26	34.5%	14.908	90.8%	69.5%	32.0%	4.6%	11.5	314	4,687,242	-	-
P8200 (C)	,	20	30.4%	16.418	100.0%	66.4%	29.8%	3.5%	11.0	302	4,958,576	-	-
P7948	3	11	33.4%	14.549	95.5%	66.1%	31.1%	4.1%	10.9	304	4,414,082	88.2%	3.991
P8200 (C)	5		30.3%	15.230	100.0%	65.6%	29.9%	4.2%	10.9	302	4,604,896	76.0%	3.457
P7326	7	26	37.5%	14.144	86.5%	69.9%	35.0%	4.0%	11.6	316	4,471,870	79.1%	3.923
P8200 (C)	· /	20	30.2%	16.349	100.0%	67.2%	30.1%	4.3%	11.1	306	5,000,466	68.3%	3.365
P8171		_	31.4%	17.560	109.5%	69.0%	32.6%	4.3%	11.4	313	5,505,758	89.1%	5.101
P8200 (C)	4	9	31.2%	16.041	100.0%	68.1%	31.0%	4.6%	11.3	309	4,947,212	76.0%	3.776

C = Control Hybrid; * = Competitor Hybrid



Hybrid Characteristics

- Very tall, large stature, forage hybrid
- Very good early vigour and good standing power
- Very high dry matter yields, good starch contents for such a yield

Grown In The Open

• Only on the most favourable sites in the UK and Ireland

Grown Using The Samco System

- Suitable for good to favourable locations under film
- Plant in the normal sowing period



P8000

Late Maturity, FAO 230 **Primary End Use: Forage and Grain**

P8000 is a stiff strawed late maturing hybrid that has given good yields of high starch silage and grain in favourable growing situations and when grown under film.

Hybrid Characteristics

- Tall
- Stiff strawed
- · Suitable as a late maturity grain hybrid

Hybrid Specific Agronomic Advice				
	Grown In The Open	Samco System		
Early Vigour	Average	Good		
Lodging Resistance ¹ 8.2				
Eyespot Resistance Score ¹	8.6			
Stover Dry-Down Rate	Moderate	Good		
Forage Seeding Rate ² (seeds/ha)	98,000	98,000		
Film Penetration Ability ³	Not Applicable	Very Good		

P8171

Very Late Maturity, FAO 250 **Primary End Use: Forage and Biogas**

P8171 is a very late maturing hybrid with a very high yield potential. P8171 should be grown only under the most favourable sites in the open where an early harvest is not required. P8171 can be grown under film on favourable sites.

Hybrid Specific Agronomic Advice				
	Grown In The Open	Samco System		
Early Vigour	Good	Good		
Lodging Resistance ¹ 7.8				
Eyespot Resistance Score ¹ Not Available				
Stover Dry-Down Rate	Slow	Moderate		
Forage Seeding Rate ² (seeds/ha)	98,000	98,000		
Film Penetration Ability ³	Not Applicable	Good		

Score on a 1- 9 scale where 9 = very resistar

 $^{\rm 2}$ $\,$ Assumes plant establishment losses of less than 5% $\,$

³ Film penetration varies with conditions and film. Trials conducted with Samco and Maizetech films

HYBRID DESCRIPTIONS

Grown In The Open

• Favourable sites in the UK

Grown Using The Samco System

- Suitable for good to favourable locations under film in the UK and Ireland
- Plant in the normal sowing period

Hybrid Characteristics

- Very tall, large stature forage hybrid
- Very high dry matter yields

Grown In The Open

• Only on the most favourable sites in the UK

Grown Using The Samco System

- Suitable for favourable locations under film
- Do not sow if planting has been delayed



Keith Blenkiron, North Yorkshire



Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectare)
		0	2 4 6 8 10 12 14 16 18 20 22 24 26
46.726	30.6%	P7524 19	<mark>% 12% 120%</mark>
46.313	29.9%	P7404 18	<mark>% 11%</mark> 116%
51.674	26.6%	X75N901 20	0% 10% 115%
44.370	30.9%	P7034 2	115%
37.215	34.6%	ambition*	31% 7% 108%
33.577	38.1%	glory* 2	4% 3% 107%
34.735	36.6%	P7326 2	3% 8% 106%
30.717	39.7%	cito kws* 2	5% 3% 102%
43.611	27.4%	P7892 (C)	11% 14% 100%

Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)	
62%	4.148	
62%	3.766	
64%	4.159	
68%	4.962	
63%	6.159	
59%	4.723	
65%	4.531	
63%	4.632	
63%	1.997	

Fresh

Yield

(t/ha)

56.099 50.914

47.871

45.608 43.753

51.089

50.140 46.150

44.848

32.482

Fresh Yield (t/ha)

63.296 62.925 40.880 36.932 57.252 47.448 40.027 46.048

34.743 41.565 44.244 32.924 Dry

Matter

(%)

33.5%

36.7%

38.4% 40.1%

40.5%

34.3% 33.7%

35.9%

36.8%

42.5%

Tim	Russon,	Linco	Inshire
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Hybrid	Yield (Tonnes Dry Matter/Hectare 0 2 4 6 8 10 12 14 16 18 12	2) 20 22 24 26	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
P7948	30% 6%	107%	65%	8.677
P7524		107%	68%	9.641
P7034	35% 7% 1	05%	72%	9.774
P7326	34% 7%	05%	69%	9.647
glory*	34% 7% 101	%	72%	9.281
P7892 (C)	28%7% 100	1%	66%	7.451
X75N901	<u> </u>	5	66%	8.851
X75R466	30% 7% 95%	i	67%	7.586
ambition*	29% 8% 94%	6	66%	7.364
cito kws*	33% 5% 79%		70%	7.058

Clayton Farm Partnership, Cheshire

Fresh Yield (t/ha)	Dry Matter (%)	Hybrid		Yield (Tonnes Dry Matter/	Hectare)
		0	2 4	6 8 10 12 14 16	18 20 22 24 26
38.576	45.5%	P7034	37%	3%	106%
46.170	37.5%	X75R466	33%	7%	105%
41.852	40.1%	P7524	32%	7%	101%
40.978	40.4%	P7892 (C)	31%	7%	100%
34.565	47.3%	glory*	41%	3%	99%
38.574	41.4%	P7326	32%	6%	96%
37.362	42.1%	ambition*	35%	4%	95%
40.319	38.5%	P7404	30%	4%	94%
26.822	50.3%	cito kws*	41%	2% 81%	

Whole Plant	C

Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
68%	10.063
71%	8.726
68%	8.185
69%	7.726
70%	10.310
67%	7.692
69%	8.466
64%	7.039
70%	8.371

Severn Trent, Nottinghamshire

Dry Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectare) 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
	-			
43.2%	P7948	31% 5% 148%	66%	12.822
35.1%	P8200	<u>32%</u> 5% 119%	67%	10.694
50.8%	X75N901	36% 3% 112%	68%	11.530
54.2%	P7326	36% 2% 108%	67%	11.084
34.8%	P8201	34% 4% 107%	69%	10.465
40.4%	P7524	32% 5% 103%	67%	9.370
46.3%	P7034	40% 4% 100%	72%	11.269
40.3%	P7892 (C)	34% 4% 100%	68%	9.538
49.9%	gatsby*	37% 3% 94%	69%	9.712
41.5%	autens kws*	36% 2% 93%	69%	9.415
38.0%	ambition*	34% 3% 91%	68%	8.866
47.2%	cito kws*	41% 3% 84%	73%	9.761

Starch Yield & % Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

INDIVIDUAL SITE RESULTS – FORAGE 2020







Glyn Jones, Denbighshire

Fresh

Dry



Yield (t/ha)	Matter (%)	Hybrid			Y	ield (1	onne	es Dry	/ Mat	ter/	Hecto	are)			
			0 2	4	6	8	10	12	14	16	18	20	22	24	26
50.763	35.6%	P7524	3	2%		9%			·	·		111%			
42.222	38.9%	ambition*	3	4%		6%					1019	6			
48.124	33.7%	P7892 (C)	30	%	8	%					1009	%			
47.031	33.6%	P7404	3	6%	4	4%					98%				
46.211	33.8%	P7326	27%	6	7%						96%				
42.742	36.0%	P7034	3	5%	5	%					95%				
59.184	25.6%	X75N901	24%		6%						94%				
36.896	40.4%	glory*	30	5%	4	%					92%				
31.819	42.8%	cito kws*	37	%	3%				8	4%					

Gareth Powell, Powys



Fresh Yield (t/ha)	Dry Matter (%)	Hybrid			Yield (Tonne	es Dry	y Ma	tter/ł	lecto	ıre)			
		0) 2	4 6	8	10	12	14	16	18	20	22	24	26
51.867	33.4%	ambition*	37%		2%					12	20%			
61.360	26.4%	X75N901	30%	2%	6					112%				
52.539	28.7%	P7034	33%	39	6				104	4%				
53.701	27.7%	P7524	27%	4%					103	%				
52.375	27.6%	P7892 (C)	28%	3%					1009	%				
47.812	29.5%	P7326	32%	3%					98%					
36.342	38.8%	cito kws*	41%		2%				97%					
48.906	28.5%	P7404	30%	2%					96%					

Digestibility (%)	Grain at 15% Moisture (t/ha)
71%	8.882
70%	8.658
70%	7.531
69%	8.808
66%	6.497
70%	8.175
61%	5.611
69%	8.218
71%	7.786

Whole Plant

Whole Plant

Digestibility

(%)

72%

66%

67%

62%

66%

67%

73%

67%

Starch Yield

Converted to

Starch Yield

Converted to

Grain at 15%

Moisture (t/ha)

9.749

7.521

7.516

6.115

6.267

6.951

8.805

6.418

Fresh

Yield

(t/ha)

55.518

45.440 48.760

50.000

45.395 38.072

45.455

Fresh

Yield

(t/ha)

55.811

55.493

58.486

46.776

46.824

46.935

53.686

41.091

33.283

Dry

Matter

(%)

33.4% 39.9%

36.5% 33.7%

37.1%

41.1% 31.7%

Dry

Matter

(%)

32.3%

32.0%

30.1%

36.7%

36.4%

36.0%

30.6%

38.3%

45.3%

Nevile Kirkham, Leicestershire

Нуы	id	Yield (Tonnes Dry Matter/Hectare)													
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	
P75	24	31%	6		7%				·		110%				
glor	y* 📃	30	6%		3%						108%				
P70	34	35	5%		3%						106%				
P7892 (c)	30%	6	ļ	5%					100)%				
P73	26	34	%		3%					100)%				
cito kw	's*	35%	6		2%					939	%				
ambitio	n* 🗌	27%		6%					86%						

David Garlick, Herefordshire

Hybrid	Yield (Tonnes Dry Matter/Hectare) 0 2 4 6 8 10 12 14 16 18 20 22 24 26	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
P7524	31% 8% 102%	68%	8.627
P7892 (C)	32% 5% 100%	69%	8.766
X75N901	34% 5% 99%	69%	9.067
P7326	35% 4% 97%	70%	9.196
P7034	36% 4% 96%	69%	9.482
ambition*	35% 3% 95%	69%	8.977
P7404	31% 1% 92%	63%	7.806
glory*	36% 4% 88%	71%	8.722
cito*	40% 6% 85%	75%	9.183

Starch Yield & % Stover Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

INDIVIDUAL SITE RESULTS – FORAGE 2020



Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
68%	8.728
69%	9.993
66%	9.500
67%	7.803
68%	8.784
67%	8.336
67%	5.970



Starch Yield & % Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Taylor Farms, Northamptonshire



Yield (t/ha)	Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectare)
		(0 2 4 6 8 10 12 14 16 18 20 22 24 26
41.925	33.6%	P7948	26% 8% 118%
38.315	33.8%	X75N901	30% 5% 108%
32.366	37.1%	P7326	37% 4% 100%
37.116	32.2%	P7524	33% 6% 100%
36.146	33.0%	P7892 (C)	33% 6% 100%
34.814	33.6%	P7378	30% 7% 98%
30.316	37.9%	ambition*	34% 4% 96%
33.720	30.9%	P7404	32% 1% 87%
29.528	34.4%	P7034	38% 5% 85%
24.409	37.7%	cito kws*	37% 3% 77%
24.459	36.2%	glory*	34% 3% 74%

Converted to Grain at 15% Moisture (t/ha)	Fresh Yield (t/ha)	Dry Matter (%)	Hybrid
			0
5.594	44.719	46.8%	X75R466
5.904	51.469	37.7%	P7948
6.805	54.972	34.6%	P8329
6.117	52.365	36.2%	P8201
5.991	33.936	55.8%	P7034
5.330	44.036	42.7%	X75N901
5.970	38.806	47.2%	autens kws*
5.023	39.704	46.1%	ambition*
5.853	42.866	41.7%	gatsby*
5.161	42.423	42.1%	P7524
4.597	42.652	41.0%	P7892 (C)
	51.031	33.1%	P8200 2
	32.122	47.6%	P7326
	28.463	47.9%	cito kws*

Hybrid			Yield (1	Tonnes Dr	y Matter/	Hecto	ıre)				Whole Plant Digestibility (%)	Converted to Grain at 15% Moisture (t/ha)
(0 2	4 6	8	10 12	14 16	18	20	22	24	26		
75R466	33	%	3%					120	1%		68%	10.491
P7948	29%		5%				11	1%			64%	8.645
P8329	28%		4%				109	%			63%	8.232
P8201	29%		7%				108	3%			68%	8.306
P7034	33%	6	1%				108	3%			63%	9.471
75N901	28%		4%				107	%			62%	8.104
ns kws*	35%	%	3%				105%				68%	9.891
bition*	375	%	3%				104%	5			69%	10.335
atsby*	33%		3%				102%				66%	8.932
P7524	34%	6	5%				102%				68%	9.401
	33%		4%			1	00%				67%	8.746
P8200	26%	65	%				96%				64%	6.675
P7326	32%	3	%		8	37%					63%	7.559
o kws*	41%	4	4%		78%						73%	8.551

Angus Dart, Oxfordshire



Fresh Yield (t/ha) Dry Matter (%) Hybrid Yield (Tonnes Dry Matter/Hectare) 0 2 4 6 8 10 12 14 16 18 20 22 24 34.105 53.8% X75N901 48% 4% 115% 115% 39.305 45.0% P7948 41% 3% 104% 115% 43.031 38.5% P8200 33% 3% 104% 103% 34.982 47.1% gatsby* 43% 4% 103% 4% 34.627 45.5% ambition* 38% 4% 100% 4% 31.644 48.4% autens kws* 39% 2% 96% 4% 93% 34.012 44.0% P7404 37% 1% 94% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4% 93% 4%				* #	
34.105 53.8% X75N901 48% 4% 115% 39.305 45.0% P7948 41% 3% 111% 43.031 38.5% P8200 33% 3% 104% 34.149 36.6% P8201 33% 3% 104% 44.149 36.6% P8201 33% 3% 101% 35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	Yield	Matter	-		
39.305 45.0% P7948 41% 3% 111% 43.031 38.5% P8200 33% 3% 104% 34.982 47.1% gatsby* 43% 4% 103% 44.149 36.6% P8201 33% 3% 101% 35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%			0	2 4 6 8 10 12 14 16 18 20 22	24 26
43.031 38.5% P8200 33% 3% 104% 34.982 47.1% gatsby* 43% 4% 103% 44.149 36.6% P8201 33% 3% 101% 35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 9% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	34.105	53.8%	X75N901	48% 4% 115%	
34.982 47.1% gatsby* 43% 4% 103% 44.149 36.6% P8201 33% 3% 101% 35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	39.305	45.0%	P7948	41% 3% 111%	
44.149 36.6% P8201 33% 3% 101% 35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 9% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	43.031	38.5%	P8200	33% 3% 104%	
35.638 44.7% P7892 (C) 38% 4% 100% 34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	34.982	47.1%	gatsby*	43% 4% 103%	
34.627 45.5% ambition* 38% 4% 99% 37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	44.149	36.6%	P8201	33% 101%	
37.599 41.7% P7524 34% 3% 99% 31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	35.638	44.7%	P7892 (C)	38% 4% 100%	
31.644 48.4% autens kws* 39% 2% 96% 34.012 44.0% P7404 37% 1% 94%	34.627	45.5%	ambition*	<u>38%</u> 4% 99%	
34.012 44.0% P7404 37% 1% 94%	37.599	41.7%	P7524	34% 3% 99%	
	31.644	48.4%	autens kws*	<u> </u>	
29.456 50.3% P7326 38% 4% 93%	34.012	44.0%	P7404	37% 1% 94%	
1	29.456	50.3%	P7326	38% 4% 93%	
29.236 49.5% P7034 40% 4% 91%	29.236	49.5%	P7034	40% 4% 91%	
25.623 48.0% cito kws* 41% 3% 77%	25.623	48.0%	cito kws*	41% 3% 77%	

Starch Yield & % Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

nole Plant gestibility (%)	
76%	13.381
73%	11.133
67%	8.296
73%	10.877
66%	8.105
70%	9.189
71%	9.090
68%	8.155
68%	9.037
67%	8.491
69%	8.612

8.938

7.729

69%

72%

Starch Yield

Whole Plant

Digestibility

(%)

67%

66%

69%

71%

70%

68%

71%

65%

71%

70%

68%

Joanna Binnington, West Sussex

Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectare)	Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
		(
49.107	33.4%	X85N977	36% 1% 114%	70%	8.914
36.790	44.1%	ambition*	<u>40%</u> 4% 113%	75%	9.966
44.071	36.7%	P8201	34% 2% 113%	71%	8.503
35.787	44.1%	P7326	40% 4% 110%	73%	9.752
39.387	39.5%	P7524	36% 3% 109%	71%	8.617
41.624	34.8%	P7948	35% 2% 101%	71%	7.835
39.649	36.2%	P7892 (C)	36% 2% 100%	72%	7.942
42.252	33.4%	P8200	37% 1% 98%	69%	7.993
38.001	36.8%	X75N901	36% 2% 98%	71%	7.588
39.834	35.0%	P7404	36% 1% 97%	72%	7.620
36.526	37.7%	autens kws*	39% 2% 96%	74%	8.202
31.391	43.6%	P7034	43% 3% 96%	76%	9.051
36.496	33.5%	gatsby*	40% 2% 85%	74%	7.413
25.010	44.8%	cito kws*	38% 2% 78%	72%	6.524

Starch Yield & % Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Fresh

Drv

INDIVIDUAL SITE RESULTS – FORAGE 2020

Starch Yield







Jamie Montgomery, Somerset



Starch Yield

Starch Yield

Converted to

Grain at 15%

Moisture (t/ha)

11.465 12.652

8.805

9.463

9.884

11.035

9.290

9.269

9.736

8.336

9.420

9.351

6.908

7.050

Whole Plant

Digestibility

(%)

69%

72%

63%

66%

65%

71%

68%

69%

70%

62%

67%

68%

58%

64%

Yield (t/ha)	Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectare)	
(1)			-	20 22 24 26
50.183	43.9%	P7948	41% 2%	115%
52.124	42.1%	X85N977	32% 5%	115%
48.176	44.3%	X75R466	32% 2%	112%
47.680	41.6%	X75N901	34% 1%	104%
48.194	40.7%	P7524	28% 4%	103%
52.776	37.2%	P8200	31% 3%	103%
43.113	44.9%	P7404	35% 1%	101%
45.005	42.5%	P7892 (C)	34% 2%	100%
43.184	43.7%	gatsby*	35% 1%	99%
39.325	47.5%	P7326	35% 1%	98%
39.487	45.7%	autens kws*	36% 1%	94%
38.567	46.3%	P7034	34% 3%	93%
40.288	42.4%	ambition*	36% 2% 89%	
30.385	52.5%	cito kws*	<u>44%</u> 1% 83%	

		Dry	Fresh	Converted to	Whole Plant
		Matter	Yield	Grain at 15%	Digestibility
ł	Hybrid	(%)	(t/ha)	Moisture (t/ha)	(%)
0 2					
	P8329	30.5%	76.265	13.908	69%
3	P7948	36.8%	62.611	10.898	66%
1	P8201	33.9%	67.201	10.574	64%
· _	gatsby*	40.4%	55.025	10.246	61%
•	P7524	38.4%	57.391	8.546	62%
25	P8200	32.2%	68.034	9.306	62%
5 	X75R466	40.8%	52.730	10.413	63%
5	P7326	43.5%	46.234	9.826	64%
) 3	P7892 (C)	37.5%	53.175	9.980	65%
•	autens kws*	44.4%	44.644	9.875	66%
•	ambition*	40.5%	45.877	9.865	64%
1	X75N901	41.5%	44.143	9.180	63%
+ 28	P7034	40.2%	44.040	9.385	67%
. 3	cito kws*	43.9%	35.272	10.788	74%

Arnold Dare, Devon

Spencer Mogridge, Dorset

Fresh Yield (t/ha)	Dry Matter (%)	Hybrid 0	Yield (Tonnes Dry Matter/Hect 2 4 6 8 10 12 14 16 18	care) 20 22 24 26
58.267	37.5%	P8200	34% 3%	120%
58.835	36.5%	P8201	39% 4%	118%
61.637	31.6%	P8329	30% 3%	107%
46.156	40.3%	X75R466	33% 1%	102%
54.338	34.0%	P7948	35% 2%	102%
41.398	44.5%	autens kws*	39% 3%	101%
50.329	36.2%	P7892 (C)	33% 4%	100%
44.305	40.8%	ambition*	34% 3%	99%
44.570	40.3%	gatsby*	35% 4%	99%
43.986	40.4%	X75N901	31% 2%	98%
40.805	42.9%	P7326	35% 3%	96%
41.773	41.7%	P7034	35% 4%	96%
51.664	33.1%	P7524	26% 3%	94%
31.043	45.8%	cito kws*	32% 3% 78%	

Starch Yield & % 🗌 Sugar Yield & % 📕 Stover Yield Relative Dry Matter Yield index (C=100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Irwin Morrow, Cornwall

Fresh Yield (t/ha)	Dry Matter (%)	Hybrid	Yield (Tonnes Dry Mo		Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
(/ 007	77 (0)	-			(0)	7 71 /
46.227	33.6%	P7524	31% 8%	109%	69%	7.316
53.020	29.1%	X75R466	25% 5%	108%	60%	5.984
60.828	25.3%	P7948	24% 8%	108%	67%	5.573
41.029	35.2%	ambition*	34% 3%	101%	66%	7.426
49.557	29.0%	P7034	28% 4%	101%	63%	6.223
44.557	32.0%	P7892 (C)	<mark>26%</mark> 6%	100%	64%	5.775
39.268	36.0%	autens kws*	18% 4%	99%	55%	3.887
58.449	23.7%	P8200	17% 4%	97%	53%	3.507
59.927	23.1%	P8000	<mark>18%</mark> 4%	97%	55%	3.899
43.800	30.9%	gatsby*	28% 5%	95%	64%	5.854
59.221	22.3%	P8201	30% 4%	92%	66%	6.107
39.660	29.9%	P7326	29% 5% 83%		65%	5.340
30.759	34.2%	cito kws*	34% 4% 74%		68%	5.530
		-				

Starch Yield & % Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

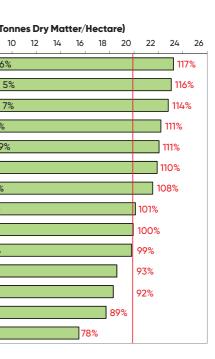
C = Control Hybrid; * = Competitor Hybrid, ** = Hybrid trade name following official registration

Fresh

Dry

INDIVIDUAL SITE RESULTS – FORAGE 2020





Whole Plant Digestibility (%)	
65%	10.632
66%	11.223
68%	10.594
67%	10.665
69%	10.260
63%	8.253
68%	11.263
67%	10.869
66%	9.328
68%	11.285
70%	10.123
65%	9.787
63%	7.627
70%	8.869



Ne Fresh Yield (t/ha)	Dry Matter (%)	Rigg C		Vhole Plant Vigestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
		0 2	4 6 8 10 12 14 16 18 20 22 24		
65.922	34.6%	P7034	28% 2% 143%	61%	9.866
46.095	34.7%	P7524 3	<mark>0% 5%</mark> 100%	66%	7.262
58.986	27.0%	P8200 (C) 239	5% 100%	60%	5.554
55.001	28.4%	P7948 239	4% 98%	60%	5.443
43.543	31.7%	P7326 279	6% 87%	64%	5.612
38.595	35.4%	X75N901 31	% 3% 86%	66%	6.526
31.173	32.7%	P7404 24%	4% 64%	60%	3.717
Ric Fresh	bry	Phillip	s, Dyfed	Vhole Plant	SAMCO SYSTEM Starch Yield Converted to
Yield (t/ha)	Matter (%)	Hybrid	Yield (Tonnes Dry Matter/Hectale)	Digestibility (%)	Grain at 15% Moisture (t/ha)
(c/ iid)	(/0)	0 2	4 6 8 10 12 14 16 18 20 22	(/0)	Profescale (t/ hu)
/./. 717	20.7%	P8201 19%	10.6%	E0%	7 717

(t/ha)	(%)	Hybrid			Yiel	d (Ton	nes Dr	y Mat	ter/Hec	tc.e,			
		(2	4	6	8	10	12	14	16	18	20	22
44.313	29.3%	P8201	19%	7%					106%				
41.751	31.1%	X85N977	16%	9%					106%				
39.109	33.2%	X75N901	31%		4%				106%				
38.261	32.2%	P7948	29%	6	%				100%				
40.688	30.2%	P8200 (C)	28%	55	%				100%				
31.938	38.4%	P7034	32%		4%				100%				
37.308	32.8%	P7524	22%	6%					99%				
33.063	36.2%	P7404	29%	4%	5				98%				
34.376	34.4%	P7892	27%	7%	6				96%				
29.665	38.6%	P7326	32%	5%	6				93%				
34.626	26.4%	P7524 (O)		11%	14%		74%						

Ranald Fowler, North Devon

Fresh Yield	Dry Matter									ALC: N			
(t/ha)	(%)	Hybrid			Yiel	d (Ton	nes Dry	/ Matt	er/Hec	tare)			
		0	2	4	6	8	10	12	14	16	18	20	22
30.667	42.3%	P7034	35%		1%				100%	·			
37.834	34.3%	P8200 (C)	33%		2%				100%				
34.751	35.5%	P8201	34%		2%			ç	5%				
32.167	38.1%	P7892	37%		2%			•	94%				
30.584	39.7%	P7948	38%		2%				93%				
37.167	32.4%	P8329	29%	39	%			9	93%				
30.334	38.4%	P7524	36%		5%			ç	90%				
29.917	38.4%	X75N901	39%		3%			8	39%				
25.917	39.6%	P7404	30%	1%			79	%					
25.584	37.1%	P7326	36%	3%	%		73%						

	Drunco sistem					
Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)					
59%	3.713					
59%	3.240					
61%	6.153					
65%	5.551					
61%	5.213					
63%	6.025					
57%	4.056					
62%	5.266					
61%	4.969					
65%	5.586					
59%	1.528					
	V V					
	SAMCO SYSTEM					
Whole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)					
66%	7.007					

6.474

6.333

7.024

7.069

5 265

6.447

6.928 4.776

5.245

65%

67%

68%

69%

61%

69%

69%

64%

68%

Fresh

Yield

(t/ha)

59.926

50.380

55.986

58.638

46.289

56.289

54.319

50.834

52.804

Fresh

Yield

(t/ha)

58.058

50.646

53.117

50.646

Dry

Matter

(%)

31.3%

35.3%

33.6%

34.6%

	50.152	34.9%
	46.941	35.6%
	54.352	30.7%
4	46.199	34.6%
d o	57.317	26.8%
% (a)	43.482	34.2%
	36.811	40.2%
	42.494	34.0%
	33.105	43.4%
	52.277	27.0%
	41.011	33.8%
	39.035	35.3%
	39.776	34.3%
	38.047	35.8%
	Sta	rch Yield & %

Stuart Cole, North Devon

Dry Matter (%)	Hybrid			Yie	ld (Ton	nes Dry	y Matte	er/Hec	tare)			
	C	2	4	6	8	10	12	14	16	18	20	22
25.7%	P8201	23%		9%					1179	6		
27.9%	P7034	24%		6%				1	07%			
23.9%	X85N977	14%	10%					1029	%			
22.5%	P8200 (C)	19%	11	%				100%	6			
28.4%	P7326	28%		8%				1009	6			
22.5%	P7948	16%	10%					96%				
23.1%	P7892	17%	10%	6				95%				
24.5%	P7404	17%	7%					94%				
22.7%	X75N901	24%	8	%				91%				

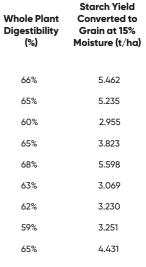
Samuel J. Shine, Co. Limerick

Hybrid				eld (Tonr	-	Mo
0	2	4	6	8	10	
P8358	30%		1%	0		
P7932	23%		3%			
P8171	34%	6		3%		
P8201	379	%		3%		
P8333	29%		2%	%		
P7892	33%			2%		
P8329	28%			6%		
P8834	29%		2%			
P9911	25%		4%			
P7948	31%		2%			
P7326	34%	_	29	Z		
P8000	34%		2%			
-				-		
P7460	35%		25	%		
P8200 (C)	28%		3%			
P7524	30%		3%			
P7034	31%		2%			
X75N901	30%		2%			
-		_				
P8307	25%	2%	5			

C = Control Hybrid; O = Grown in the open; * = Competitor Hybrid, ** = Trade name following official registration

INDIVIDUAL SITE RESULTS – FORAGE 2020







				1		
latte	r/Hec	:tare)				
12	14	16	18	20	22	
			1	29%		
			12	27%		
			12	:7%		
			124	%		
			124	%		
			118%			
			118%			
		113	3%			
		109%	6			
		105%				
		105%				
		102%				
		102%				
		100%				
		98%				
		98%				
		97%				
		97%				



Vhole Plant Digestibility (%)	Starch Yield Converted to Grain at 15% Moisture (t/ha)
64%	8.296
61%	6.203
67%	9.237
69%	9.802
65%	7.738
64%	8.488
63%	7.225
62%	7.032
61%	5.824
63%	7.014
64%	7.794
65%	7.398
65%	7.626
62%	6.088
62%	6.350
63%	6.567
61%	6.253
59%	5.134

Sugar Yield & % Stover Yield Relative Dry Matter Yield index (C=100%)

NOTES

Russell Toothill, South Yorkshire



Yield Advantage /

Fresh Yield (t/ha)	Grain Moisture at Harvest (%)	Hybrid		Yield (Tor	nnes/Hectar	e at 15%	Moisture)			Disadvantage vs Control (%)
		c	2	4	6	8	10	12	14	
7.822	35.1%	P7948	5.972	t/ha	122%					22%
7.078	31.2%	P7034	5.728 t	t/ha	117%					17%
7.200	36.2%	P7948 (100K/HA)	5.408 t/	/ha	111%					11%
5.956	30.2%	P7326 (C)	4.890 t/h	ia	100%					0%
6.078	33.0%	P7034 (100K/HA)	4.794 t/ha		98%					-2%
6.189	34.4%	P7404	4.775 t/ha		98%					-2%

Tim Farthing, Wiltshire

Fresh Yield (t/ha)	Grain Moisture at Harvest (%)	Hybrid		Yield (Ton	nes/Hecto	are at 15%	Moisture)			Yield Advantage / Disadvantage vs Control (%)
		0	2	4	6	8	10	12	14	
15.079	33.1%	P8329			11.863 t/h	na		119%		19%
15.079	34.1%	P7948			11.697 t/ha			118%		18%
12.698	33.0%	P8000		10.015 t/h	a		101%			1%
11.905	28.7%	P7034		9.988 t/ho	a and a second sec		101%			1%
11.905	29.1%	P7326 (C)		9.936 t/ha			100%			0%
12.698	34.4%	X75N901		9.804 t/ha			99%			-1%
13.095	36.9%	X85N977		9.717 t/ha			98%			-2%

Alan Cook, Hampshire

Fresh Yield (t/ha)	Grain Moisture at Harvest (%)	Hybrid	Yield (Tonnes/Hectare at 1	5% Moisture)	Yield Advantage / Disadvantage vs Control (%)
		0	2 4 6 8	10 12 14	
13.106	31.8%	P7948	10.511 t/ha	121%	21%
11.932	30.9%	P7404	9.706 t/ha	112%	12%
11.439	30.0%	P7892	9.416 t/ha	109%	9%
11.174	31.1%	P7524	9.064 t/ha	105%	5%
11.818	35.2%	P8329	9.008 t/ha	104%,	4%
11.136	32.0%	X75N901	8.910 t/ha	103%	3%
10.265	28.3%	P7326 (C)	8.658 t/ha	100%	0%
10.909	33.2%	P8000	8.570 t/ha	99%	-1%
9.205	28.3%	P7034	7.761 t/ha	90%	-10%

Grain Yield, Tonnes/Hectare at 15% Moisture Relative Yield Index (C = 100%)

C = Control Hybrid; * = Competitor Hybrid, ** = Trade name following official registration

INDIVIDUAL SITE AGRONOMY DETAILS

NAME >	IRWIN MORROW	ARNOLD DARE	JAMIE MONTGOMERY	JOANNA BINNINGTON
FOWN	TRURO	AXMINSTER	WINCANTON	PULBOROUGH
COUNTY & COUNTRY	CORNWALL, GB	DEVON, GB	SOMERSET, GB	EAST SUSSSEX, GB
SITE CLASSIFICATION	FAVOURABLE	FAVOURABLE	FAVOURABLE	FAVOURABLE
FRIAL TYPE /IELD OF CONTROL HYBRID **	FORAGE, OPEN 14.266	FORAGE, OPEN 19.939	FORAGE, OPEN 19.133	FORAGE, OPEN 14.335
SOIL TYPE	MEDIUM LOAM	MEDIUM LOAM	MEDIUM LOAM	GREENSAND
ASPECT/SLOPE (DEGREES)	NORTH / 10 DEGREES	NORTH EAST / 5 DEGREES	LEVEL	LEVEL
ALTITUDE (METRES)	70	50	60	50
ANNUAL RAINFALL (MM)	1000	800	700	825
PREVIOUS CROPPING 2019	GRASS	TURNIP	WHEAT	GRASS
SOIL pH	6.7	6.1	7.1	6.9
	2-	5 4	3 2+	6 4
SOIL POTASSIUM (K) INDEX SOIL MAGNESIUM (MG) INDEX	3	3	2+	3
SLURRY TYPE & VOLUME (L/HA)	CATTLE / 11,350	CATTLE / 11,000	CATTLE / 40,000	CATTLE / 42,000
MANURE TYPE & QUANTITY (T/HA)	CATTLE / 30	CATTLE / 25	-	-
FERT 1 - TYPE/RATE (KG/HA)/DATE	DAP / 200 / 12-05	UREA / 125 / 20-04	18N. 40P / 125 / 22-04	DAP /125 / 27-04
ERT 2 - TYPE/RATE (KG/HA)/DATE	-	-	-	34.5%AN /350 /
ERT 3 - TYPE/RATE (KG/HA)/DATE	-	-	-	-
SPRAY 1 - NAME/RATE/DATE	CHORISTE / 1.25 / 10-06	CAMIX / 1.25 L / 20-04	CORRAL 2 / 3 L / 25-03	CAMIX / 1.4 / 30-04
PRAY 2 - NAME/RATE/DATE	ZINC / 0.75 / 10-06	MOST MICRO / 3 L / 20-04	ANTHEM / 2.7 L / 27-04	VELOMAX / 4L / 30-04
PRAY 3 - NAME/RATE/DATE	-	BASILICO / 0.85 L / 28-05	BARRACUDA / 0.9 L / 01-07	CALLISTO / 0.75 / 02-06
UB SOILED/PLOUGHED DATE	- / 02-05	- / 19-04	15-11 / 15-11	- / 26-04
EEDING RATE - SEEDS/HA	12-05 / 17-10 100,000	21-04 / 07-10 104,000	22-04 / 14-10 110,000	27-04 / 13-09 103.000
CROP CONDITION AT HARVEST	50% GREEN / 50% STRAW	40% GREEN / 60% STRAW	100% STRAW	50% GREEN / 50% STRAW
COMMENTS ABOUT TRIAL	HARVESTED AFTER RAIN	CONSISTENT	CONSISTENT	WEED BURDEN
IAME >	CLAYTON PARTNERSHIP	KINGSPOOL HOLSTEINS	SPENCER MOGRIDGE	ANGUS DART
OWN	MALPAS	BRISTOL	STURMINSTER NEWTON	DIDCOT
COUNTY & COUNTRY	CHESHIRE, GB	AVON, GB	DORSET, GB	OXON, GB
SITE CLASSIFICATION	LESS FAVOURABLE	FAVOURABLE	FAVOURABLE	FAVOURABLE
	FORAGE, OPEN	FORAGE, OPEN	FORAGE, OPEN	FORAGE, OPEN
(IELD OF CONTROL HYBRID **	16.546 MEDIUM LOAM	17.508 MEDIUM LOAM	18.197 CLAY LOAM	15.920 GRAVEL
ASPECT & SLOPE (DEGREES)		LEVEL	LEVEL	LEVEL
LTITUDE (METRES)	65	60	55	55
NNUAL RAINFALL (MM)	800	800	650	660
REVIOUS CROPPING 2019	MAIZE	WINTER WHEAT	GRASS	WINTER WHEAT
SOIL pH	7.1	6.4	7.1	6.5
OIL PHOSPHATE (P) INDEX	4	4	4	3
OIL POTASSIUM (K) INDEX	2+	3	3	2-
SOIL MAGNESIUM (MG) INDEX	1	3	3	3
SLURRY TYPE & VOLUME (L/HA) MANURE TYPE & QUANTITY (T/HA)	-	CATTLE / 56,000	CATTLE / 30,000	
ERT 1 - TYPE/RATE (KG/HA)/DATE	- N / 150 / 23-04	PROGRAM / 3 L / 14-05	- 34.5% N / 123 / 20-04	CATTLE / 7 AF PHOSPHOROUS / 5L /
ERT 2 - TYPE/RATE (KG/HA)/DATE	K/ 150 / 23-04			
ERT 3 - TYPE/RATE (KG/HA)/DATE	-	-	-	-
SPRAY 1 - NAME/RATE/DATE	PENDIMETHALIN / / 27-04	GOLDCOB / 3 L / 14-05	BARRACUDA / 0.75 L / 26-05	MOTIF / 3L /
SPRAY 2 - NAME/RATE/DATE	CALLISTO / 1.0 /	PAMPA / 1 L / 14-05	GYO / 0.75 L / 26-05	STOMPAG/2.7L/D'GOLD/1.2L
PRAY 3 - NAME/RATE/DATE	-	-	ENTAIL / 0.125 L / 26-05	MILAGRO/.125/CALLISTO/.75
UB SOILED/PLOUGHED DATE	END FEB / END MAR	- / 04-04	- / 18-04	-
OWING DATE/HARVEST DATE	26-04 / 21-10	20-04 / 27-09	21-04 / 16-09	23-04 / 20-09
EEDING RATE - SEEDS/HA	-	104,000	100,000	100,000
CROP CONDITION AT HARVEST	-	50% GREEN / 50% STRAW	50% GREEN / 50% STRAW	-
ROP CONDITION AT HARVEST	-	50% GREEN / 50% STRAW CONSISTENT	50% GREEN / 50% STRAW CONSISTENT	- SOME BADGER DAMAGE
ROP CONDITION AT HARVEST	- - TIM RUSSON			- SOME BADGER DAMAGE GLYN JONES
ROP CONDITION AT HARVEST		CONSISTENT	CONSISTENT	
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL	TIM RUSSON	CONSISTENT GARETH POWELL	CONSISTENT NEVILLE KIRKHAM	GLYN JONES
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY	TIM RUSSON	CONSISTENT GARETH POWELL OSWESTRY	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH	GLYN JONES ST ASAPH, RHYLL
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID **	TIM RUSSON LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > COWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES)	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM -	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT
COP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN OUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LTITUDE (METRES)	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17.499 SANDY LOAM FLAT 10	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY THE CLASSIFICATION RIAL TYPE TELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITTUDE (METRES) NNUAL RAINFALL (MM)	TIM RUSSON LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17.499 SANDY LOAM FLAT 10 635	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT 15 900
ROP CONDITION AT HARVEST OMMENTS ABOUT TRIAL IAME > OWN OUNTY & COUNTRY TE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17.499 SANDY LOAM FLAT 10	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LTITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL PH OIL PHOSPHATE (P) INDEX	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 64 4	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 60 630 - 59 3	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16279 SANDY LOAM FLAT 15 900 MAIZE 6.5 3
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LTITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL PH OIL PH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX	TIM RUSSON LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17.499 SANDY LOAM FLAT 10 635 MAZE 6.4 4 5	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630 - 5.9 3 2-	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY TE CLASSIFICATION RIAL TYPE TED OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) ITTUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL PH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL MAGNESIUM (KG) INDEX	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630 - 5.9 3 2- 3 2- 3	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6,5 3 1 1
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS COPPING 2019 OIL pH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (K) INDEX LURRY TYPE & VOLUME (L/HA)	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 -	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 -	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630 - 5.9 3 2- 3 - 3 -	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1
COP CONDITION AT HARVEST COMMENTS ABOUT TRIAL VAME > OWN COUNTY & COUNTRY COUNTY & COUNTRY COUNTY & COUNTRY COUNTY & COUNTRY COUNT	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - - CATTLE / 10	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14,481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630 - 5.9 3 2- 3 2- 3 - CATTLE / 40,000	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 1 DIGESTATE/20000L/20-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LTITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL PH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX LURRY TYPE & QUANTITY (T/HA) ERT 1 - TYPE/RATE (KG/HA)/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 64 4 5 3 - CATTLE / 10 DAP / 125 / 26-04	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14,481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 DIGESTATE/20000L/20-04 UMO START /15KG/27-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > IAME > OWN COUNTY & COUNTRY TITE CLASSIFICATION RIAL TYPE TELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITTUDE (METRES) INNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX IURRY TYPE & VOLUME (L/HA) TANURE TYPE & QUANTITY (T/HA) ERT 1 – TYPE/RATE (KG/HA)/DATE ERT 2 – TYPE/RATE (KG/HA)/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - - CATTLE / 10	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06	CONSISTENT NEVILLE KIRKHAM LOUGHBOROUGH LEICESTERSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 16.844 MEDIUM LOAM - 60 630 - 5.9 3 2- 3 2- 3 - CATTLE / 40,000	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 1 DIGESTATE/20000L/20-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX LURRY TYPE & VOLUME (L/HA) IANURE TYPE & QUANITRY (T/HA) ERT 1 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - CATTLE / 10 DAP / 125 / 26-04 100,20P,20K/15-04	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 - POUTRY / 10 DAP / 250 MARIPHITE/1.5L/02-06 INTRACROP/2.5L/02-06	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6,5 3 1 DIGESTATE/20000L/20-04 WMO START /15KG/27-04 MAIZEMICRO/29-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > OWN COUNTY & COUNTRY ITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (K) INDEX OIL MAGNESIUM (K) INDEX OIL MAGNESIUM (KG) INDEX OIL MAGNESIUM (KG) (HA) IANURE TYPE & QUANTITY (T/HA) ERT 1 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE PRAY 1 - NAME/RATE/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 64 4 5 3 - CATTLE / 10 DAP / 125 / 26-04	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 DIGESTATE/20000L/20-04 UMO START /15KG/27-04
ROP CONDITION AT HARVEST OMMENTS ABOUT TRIAL IAME > OWN OUNTY & COUNTRY TE CLASSIFICATION RIAL TYPE ELD OF CONTROL HYBRID ** OIL POF CONTROL HYBRID ** OIL PHOSPHATE (MM) REVIOUS CROPPING 2019 OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (P) INDEX OIL PHOSPHATE (P) INDEX OIL MAGNESIUM (MG) INDEX OIL POTASSIUM (K) INDEX OIL MAGNESIUM (MG) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX OIL PACHTER (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE PRAY 1 - NAME/RATE/DATE PRAY 2 - NAME/RATE/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - CATTLE / 10 DAP / 125 / 26-04 100n,20P,20K/15-04 - CLAYTON SPOOK/0.3/28-05	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14,481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06 INTRACROP/2.5L/02-06 PREDICT/0.2L/02-05	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBICHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6,5 3 1 DIGESTATE/20000L/20-04 MAIZEMICRO/29-04 SAMURAI/5.0/02-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > COUNTY & COUNTRY COUNTY & COUNTRY TE CLASSIFICATION RIAL TYPE TE CLASSIFICATION RIAL TYPE TO CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LTITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX COLMAGNESIUM (MG) INDEX LURRY TYPE & QUANTITY (T/HA) ERT 1 - TYPE/RATE (KG/HA)/DATE ERT 2 - TYPE/RATE (KG/HA)/DATE PRAY 1 - NAME/RATE/DATE PRAY 3 - NAME/RATE/DATE PRAY 3 - NAME/RATE/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - CATTLE / 10 DAP / 125 / 26-04 100N,20P,20K/15-04 - CLAYTON SPOOK/0.3/28-05 PROLEAF MN/3.0/28-05	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06 INTRACROP/2.5L/02-06 PREDICT/0.2L/02-05 WINGP/3.0/02-05	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 DEGESTATE/20000L/20-04 - UMO START /15KG/27-04 MAIZEMICRO/29-04 - SAMURAI/5.0/02-04 ANTHEM /2.0/29-04
ROP CONDITION AT HARVEST COMMENTS ABOUT TRIAL IAME > IAME > OWN COUNTY & COUNTRY TITE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITITUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (K) INDEX OIL POTASSIUM (KG) INDEX LURRY TYPE & VOLUME (L/HA) TANURE TYPE & QUANTITY (T/HA) ERT 1 – TYPE/RATE (KG/HA)/DATE ERT 2 – TYPE/RATE (KG/HA)/DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 6.4 4 5 3 - CATTLE / 10 DAP / 125 / 26-04 100N,20P,20K/15-04 - CLAYTON SPOOK/0.3/28-05 PROLEAF MN/3.0/28-05 CALARIS / 0.962 / 25-06	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06 INTRACROP/2.5L/02-06 PREDICT/0.2L/02-05 WINGP/30/02-05 DANEVA/0.8/KIBO/0.11/02-06	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16,219 SANDY LOAM FLAT 15 900 MAIZE 6,5 3 1 DIGESTATE/20000L/20-04 - SAMURAI/S.0/02-04 - SAMURAI/S.0/02-04 MERISTO/1/MILAGRO/.15/06
ROP CONDITION AT HARVEST OMMENTS ABOUT TRIAL IAME > DWN OUNTY & COUNTRY TE CLASSIFICATION RIAL TYPE IELD OF CONTROL HYBRID ** OIL TYPE SPECT & SLOPE (DEGREES) LITTUDE (METRES) NNUAL RAINFALL (MM) REVIOUS CROPPING 2019 OIL pH OIL PHOSPHATE (P) INDEX OIL POTASSIUM (KG) INDEX OIL POTASSIUM (KG) INDEX LURRY TYPE & VOLUME (L/HA) IANURE TYPE & QUANTITY (T/HA) ERT 1 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE ERT 3 - TYPE/RATE (KG/HA)/DATE PRAY 1 - NAME/RATE/DATE PRAY 2 - NAME/RATE/DATE PRAY 2 - NAME/RATE/DATE PRAY 3 - NAME/RATE/DATE DI B SOILED/PLOUGHED DATE	TIM RUSSON LINCOLN LINCOLNSHIRE, GB LESS FAVOURABLE FORAGE, OPEN 17499 SANDY LOAM FLAT 10 635 MAIZE 64 4 5 3 - CATTLE / 10 DAP / 125 / 26-04 100N_20P,20K/15-04 - CLAYTON SPOOK/0.3/28-05 PROLEAF MN/3.0/28-05 CALARIS / 0962 / 25-06 - / 20-04	CONSISTENT GARETH POWELL OSWESTRY POWYS, GB LESS FAVOURABLE FORAGE, OPEN 14.481 LOAM OVER GRAVEL FLAT 85 840 MAIZE 6.5 6 3 3 - POUTRY / 10 DAP / 250 MARRIPHITE/1.5L/02-06 INTRACROP/2.5L/02-06 PREDICT/0.2L/02-05 WINGP/3.0/02-05 DANEVA/0.8/KIBO/0.11/02-06 20 04	CONSISTENT	GLYN JONES ST ASAPH, RHYLL DENBIGHSHIRE LESS FAVOURABLE FORAGE, OPEN 16.219 SANDY LOAM FLAT 15 900 MAIZE 6.5 3 1 DIGESTATE/20000L/20-04 WINO START /15KG/27-04 MAIZEMICRO/29-04 - SAMURAI/5.0/02-04 MERISTO/1/MILAGRO/.15/06 / 25-04

n/a = not applicable; n/k = not known ** Tonnes/Hectare of Forage Dry Matter OR Tonnes/Hectare of Grain at 15% Moisture - according to the trial type

SEVERN TRENT FARMS	KEITH BLENKIRON	DAVID GARLICK	JAMES TAYLOR FARMS	STUART COLE
NOTTINGHAM	NORTHALLERTON	BROMYARD	BANBURY	NOMANSLAND
NOTTS, GB	YORKSHIRE, GB	HEREFORDSHIRE, GB	NORTHANTS, GB	DEVON
AVOURABLE	LESS FAVOURABLE	LESS FAVOURABLE	LESS FAVOURABLE	LESS FAVOURABLE
ORAGE, OPEN	FORAGE, OPEN	FORAGE, OPEN	FORAGE, OPEN	FORAGE, FILM
3.536	11.959	17.780	11.941	13.189
ANDY LOAM	SANDY LOAM	MEDIUM LOAM	-	MEDIUM LOAM
LAT	SOUTH / 3	-	-	SOUTH 5 DEGREES
1	46	160	-	195
00	660	710	-	1,200
1AIZE	MAIZE	ITAL. RYEGRASS / SWEDES	-	OATS
.9	6.7	6.6	6.3	6.6
1	4	3	3	3
+	3	2-	2+	3
	5	3	3	3
IQ DIGESTATE/39CUBICM	DIGESTATE/45CUBICM	-	-	DIGESTATE / 25,000
	-	CATTLE / 30 /POULTRY / 4	DIGESTATE / 30T /	-
	-	DAP / 100 / 24-05	N&S / 150 /	27N.12S / 470 / 21-04
	-	-	STOMP / 3L / PRE EM	EFFICIENT N-T 28/20 L/ 01-08
	-	-	CALLISTO / 0.75 / POST EM	-
STOMP AQUA / 22-04	MERISTO / 0.87 / 05-06	ACCENT / 60G / 10-06	ENTAIL / 0.15 /	DIME / 4 L / 23-04
CALLISTO//ENTAIL// 28-05	NICO PRO / 0.87 / 05-06	CALLISTO/ 0.5L/ 10-06	-	MOST MICRO / 1.1 L / 23-04
	-	ARMA 0.2 / 10-06	-	PEAK / 20 GMS / 15-07
1-03 / 21-03	28-4 / 30-04	MID APRIL	-	- / 22-04
1-04/ 19-09	06-05 / 28-10	24-04 / 26-09	21-04 / 27-09	23-04 / 23-09
5,000	104,000	105,000	100,000	104,000
	-	-	-	95% GREEN
	-	-	-	IMMATURE CROP
SAMUEL J. SHINE	NEWTON RIGG	RICHARD PHILLIPS	RANALD FOWLER	ALAN COOK
IMERICK	PENRITH	CLARBESTON ROAD	BARNSTAPLE	SOUTHAMPTON
CO. LIMERICK, ROI	CUMBRIA, GB	DYFED, GB	DEVON, GB	HAMPSHIRE, GB
ESS FAVOURABLE	LESS FAVOURABLE	LESS FAVOURABLE	LESS FAVOURABLE	FAVOURABLE
ORAGE, FILM	FORAGE, FILM	FORAGE, FILM	FORAGE, FILM	GRAIN, OPEN
4.114	15.926	12.289	12.982	8.658
CLAY	LOAM	MEDIUM LOAM	CLAY LOAM	CLAY LOAM
LAT	FLAT	LEVEL	NORTH WEST 10 DEGREES	SOUTH EAST 10 DEGREES
)	134	80	90	60
,200	1,050	1,300	825	900
	MAIZE	MAIZE	ITALIAN RYEGRASS	MAIZE
	6.4	5.7	6.2	5.0
	3	2	3	5
	2-	2+	2+	1
	3	3	3	2
CATTLE / 30,000L /		CATTLE / 22700	CATTLE / 13600	-
	POULTRY/7/ CATTLE/20	CATTLE / 25	CATTLE / 25	-
0-70-30 / 370KG /	N / 90KG / 20-04	UREA / 185 / 23-04	UREA / 170 / 19-04	26N.0P.0K.5S / 435 L / 24-04
JREA / 370KG /	28%N / 19.993L /26-06	ON.16P.32K / 370 / 23-04	-	-
	H'ND ZEAMA/3.332/26-06	HEADLAND P. / 2.5 L / 05-06	-	-
WING P / 4L / 27-04	DIME/4L/MMICRO/1.026L/22-04	STOMP / 1 L / 24-04	WING P / 4 L / 02-05	DUAL GOLD / 1 L / 06-05
STOMP AQUA / 1.3 / 27-04	LOCKIT 0.375 / 22-04	WING P / 4 L / 24-04	STOMP AQUA / 1 L / 02-05	FORNET / 0.5 L / 27-05
CALARIS / 1.3 / 15-06	CL'TN KIBO / 3.332 / 11-06	BASILICO / 1.5 L / 05-06	CALLISTO / 1 L / 02-07	CALLISTO / 1 L / 27-05
/ 05-04	MID APRIL	18-04 / 19-04	18-04 / 19-04	17-04 / MIN TILL
27-04 / 01-10	22-04 / 18-10	24-04 / 16-10	02-05 / 11-10	05-05 / 13-11
03,000	105,000	104,000	104,000	100,000
-	-	10% GREEN / 90% STRAW	10% GREEN / 90% STRAW	STRAWLIKE
-	-	CLEAN / SOME LODGING	SOME LODGING	CLEAN / SOME LODGING
IM FARTHING	RUSSELL TOOTHILL			
AKTING				
IELKSHAM	DONCASTER			
VILTHSIRE, GB	S. YORKSHIRE, GB			
AVOURABLE	LESS FAVOURABLE			
GRAIN, OPEN	GRAIN, OPEN			
936	4.890			
SANDY LOAM	SAND			
EVEL	LEVEL			
0	20			
300	635			
1AIZE	WINTER BARLEY			
5.4	6.3			
	4			
•	2-			
i	3			
·	DIGESTATE / 30,000			
AD (10/ / 07 OF				
DAP / 106 / 03-05	DAP / 120KG / 04-05			
10P / 200 / 03-05	MOP / 92KG / 30-04			
JREA / 330 / 03-05	N / 14KG /12-05			
SLYPHOSATE / 1 L / 12-05	MERISTO / 0.75L / 15-06			
CALLISTO / 0.5 L / 08-06	FORMAT / 0.75L / 15-06			
NCO-PRO / 0.25 L / 08-06	DIVA / 0.75L / 15-06			
- / DIRECT DRILL	/ 15-04			
V OF / 70 10	04-05 / 26-11			
06-05 / 30-10	70000			
00,000				
6-05 / 30-10 00,000 TRAWLIKE CLEAN	79,000 FULLY SCENESCED			

INDIVIDUAL SITE AGRONOMY DETAILS



Pioneer Hi-Bred Northern Europe Sales Division Gmbh United Kingdom Branch

United Kingdom Branch, Central Boulevard, Blythe Valley Business Park, Solihull, B90 8AG. Tel.: +44 (0)1604 858008, E-mail: piouk@pioneer.com, www.pioneer.com/uk



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