

2023 FORAGE MAIZE DESCRIPTIVE LIST

First choice varieties for favourable sites (varieties ranked in dry matter yield order)

VARIETY	Dry matter content at harvest (%)	Dry matter yield (t/ha)	Dry matter yield (% of 4 and 5 year varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)	Early vigour (1-9)	Standing power at harvest (root lodging) (1-9)	Lodging (%) #	Brackling (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed	Agent
SAXON	34.4	19.8	107	11.67	231	32.9	6.50	58.6	7.7	6.7	3.4	0.9	6.8	3.5	2022	LIMAGRAIN
KWS ANASTASIO	32.6	19.6	106	11.57	226	32.0	6.26	58.2	7.4	7.6	1.5	1.2	7.4	7.4	2022	KWS
CATHY	30.9	19.3	105	11.47	222	29.0	5.60	58.7	7.3	7.9	0.9	0.7	7.6	5.1	2015	GRAINSEED
RESOLUTE	32.8	19.3	105	11.70	226	33.6	6.50	58.8	7.3	7.7	1.3	0.2	7.4	3.1	2020	LIMAGRAIN
SMOOTH CS	29.4	19.3	105	11.35	219	29.7	5.73	57.8	6.6	7.3	2.1	0.1	7.3	7.4	2019	LIDEA FRANCE
KWS PASCO	33.2	19.3	105	11.77	227	34.5	6.66	58.8	7.2	7.4	1.9	1.9	6.9	7.8	2022	KWS
DIGNITY	34.7	19.3	105	11.71	226	33.3	6.43	59.3	7.2	7.2	2.4	0.0	6.8	3.1	2022	LIMAGRAIN
FARMUNOX	31.9	19.3	105	11.70	226	33.3	6.41	58.3	6.7	6.7	3.4	1.8	7.6	7.4	2020	DSV
CRANBERRI CS	30.8	19.3	105	11.60	223	30.6	5.90	59.8	6.8	6.3	4.1	0.6	7.4	6.5	2018	GRAINSEED
ABRISSE.	31.7	19.0	103	11.51	219	31.3	5.94	58.5	6.7	7.9	0.8	0.4	7.1	8.1	2019	LIDEA FRANCE
CONCLUSION	33.0	19.0	103	11.91	226	34.1	6.47	60.5	7.4	7.4	1.8	0.1	7.2	4.3	2020	LIMAGRAIN
GATSBY	32.4	19.0	103	11.64	221	33.0	6.26	58.5	7.3	7.8	1.1	0.3	7.2	5.6	2017	LIMAGRAIN
BONNIE	32.7	19.0	103	11.80	224	34.1	6.48	59.6	7.4	7.7	1.3	0.3	7.6	5.9	2017	GRAINSEED
ABILITY	33.0	18.9	103	11.67	221	31.4	5.93	59.5	7.2	8.0	0.6	0.3	7.2	5.9	2020	DLF
KWS EXELON	34.4	18.9	103	11.74	222	34.6	6.55	58.3	7.1	6.9	2.9	0.6	6.8	8.3	2021	KWS
PROSPECT	35.2	18.8	102	11.90	223	35.2	6.61	60.0	7.2	7.8	1.1	0.1	7.2	7.7	2019	LIMAGRAIN
AMBITION	34.5	18.6	101	11.64	217	34.3	6.39	58.1	7.2	8.0	0.6	0.2	6.9	6.3	2012	LIMAGRAIN
EXPEDIA	31.1	18.6	101	11.87	221	33.5	6.24	60.2	6.8	7.3	2.2	0.2	7.3	5.7	2018	DSV
FIELDSTAR	33.8	18.5	100	11.71	217	34.2	6.32	58.7	7.0	8.0	0.5	0.7	7.0	6.4	2013	LIMAGRAIN
KWS ARTIKUS	36.8	18.4	100	11.84	218	36.9	6.78	58.8	6.8	6.5	3.8	4.9	5.6	7.8	2020	KWS
AVITUS KWS	35.4	18.4	100	11.81	217	36.1	6.63	58.8	7.0	6.2	4.3	2.2	6.0	5.7	2018	KWS
PINNACLE	34.6	18.4	100	11.77	216	35.6	6.54	58.6	7.1	7.1	2.6	0.8	7.0	6.5	2018	LIMAGRAIN
KWS CALVINI	35.0	18.3	100	11.70	214	34.9	6.40	58.4	7.3	7.6	1.5	2.4	6.0	6.9	2019	KWS
RODRIGUEZ KWS	33.6	18.2	99	11.80	215	35.9	6.54	59.1	6.6	8.2	0.2	0.5	7.0	4.1	2015	KWS
MADONIAS	33.6	18.2	99	11.78	214	35.7	6.50	58.5	6.7	7.6	1.5	0.6	6.2	5.5	2018	MAISADOUR
GEMA	36.4	18.0	98	11.66	210	36.6	6.59	57.7	6.7	7.2	2.2	0.6	6.1	6.4	2021	LIMAGRAIN
TROOPER	35.5	18.0	98	11.79	212	35.6	6.40	59.1	7.2	8.1	0.4	0.2	6.7	1.0	2020	LIMAGRAIN
LIROYAL	34.0	18.0	98	11.84	213	35.5	6.38	59.2	6.6	7.8	1.0	0.6	6.3	6.1	2019	DSV
CITO KWS	37.4	16.9	91	11.95	201	37.8	6.36	59.3	7.0	7.7	1.3	0.5	5.6	5.4	2018	KWS
Trial statistics																
Mean of 4&5 year varieties	33.6	18.4	100	11.67	215	33.7	6.20	58.6	7.0	7.6	1.4	0.6	6.7	5.9		
LSD (V.Cont)	0.94	0.47	2.5	0.136	-	1.30	-	0.81	0.33	-	-	-	0.43			
SE (variety mean)	0.472	0.234	1.27	0.0685	-	0.654	-	0.406	0.164	-	-	-	0.215			

On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance)

Notes:

- indicates no data available

ME is calculated as D-value x 0.16

= values are re-transformed from the mean of the log data#

Standing Power (1-9) has been calculated so that a variety that shows significantly more lodging than the mean of the 4 & 5 year varieties receives a score of less than 7.0.

Eyespot rating derived from inoculated nurseries rather than field scores

Data from the Forage Maize and AD Maize Descriptive Lists. Full data at www.bspb.co.uk



With thanks to the Maize Growers Association for part-funding the eyespot assessments

2023 FORAGE MAIZE DESCRIPTIVE LIST

Second choice varieties for favourable sites (varieties ranked in dry matter yield order)

VARIETY	Dry matter content at harvest (%)	Dry matter yield (t/ha)	Dry matter yield (% of 4 and 5 year varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)	Early vigour (1-9)	Standing power at harvest (root lodging) (1-9)	Lodging (%) #	Brackling (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed	Agent
ES MYRDAL	33.5	19.6	107	11.34	222	29.4	5.76	57.7	7.2	6.8	3.2	0.5	7.3	6.7	2022	GRAINSEED
RGT OXXFORD	30.1	19.3	105	11.17	215	25.9	5.00	57.2	6.9	7.4	1.9	0.4	6.8	7.5	2021	RAGT
DEBALTO	36.6	18.9	103	11.58	219	34.2	6.47	57.3	7.3	4.1	8.8	0.5	5.5	7.4	2022	KWS
ES LEGOLAS	31.4	18.9	103	11.09	210	27.1	5.13	56.5	6.9	7.8	1.1	0.5	7.4	6.4	2019	GRAINSEED
MARCAMO	30.8	18.6	101	11.17	207	29.4	5.46	55.6	6.6	4.7	7.5	1.9	6.4	7.2	2019	DLF
LIKEIT.	32.8	18.4	100	11.56	212	32.9	6.05	57.7	7.2	8.1	0.4	0.5	6.8	4.4	2018	DSV
SY NORDICSTAR	32.9	18.3	99	11.62	212	33.2	6.07	59.1	7.0	7.4	1.9	0.2	7.1	7.8	2016	SYNGENTA
RGT OXXGOOD	34.2	18.2	99	11.72	213	34.0	6.18	59.1	6.8	7.4	1.8	0.4	6.3	6.1	2016	RAGT
RGT STEWAXX	33.5	18.0	98	11.66	210	32.4	5.85	59.2	6.4	7.7	1.1	0.3	6.7	3.8	2019	RAGT
ES TOMMEN	33.5	18.0	98	11.57	209	33.5	6.04	58.3	7.5	7.9	0.8	0.3	6.6	3.8	2021	EURALIS
ES LOVELY	34.4	17.8	97	11.62	207	34.8	6.20	58.1	7.0	8.0	0.6	0.7	6.3	3.8	2016	GRAINSEED
RGT DUXXBURY	35.9	17.1	93	11.66	199	35.5	6.06	58.1	6.9	8.0	0.7	0.3	5.8	5.3	2018	RAGT
AUGUSTUS KWS	36.0	17.0	92	11.94	203	37.9	6.43	59.2	6.9	7.3	2.1	1.3	5.8	6.3	2015	KWS
EMMERSON	37.5	16.8	91	11.80	199	36.8	6.20	58.5	6.6	8.2	0.3	0.3	6.0	1.7	2015	DLF
Trial statistics																
Mean of 4&5 year varieties	33.6	18.4	100	11.67	215	33.7	6.20	58.6	7.0	7.6	1.4	0.6	6.7	5.9		
LSD (V.Cont)	0.94	0.47	2.5	0.136	-	1.30	-	0.81	0.33	-	-	-	0.43			
SE (variety mean)	0.472	0.234	1.27	0.0685	-	0.654	-	0.406	0.164	-	-	-	0.215			

On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance)

Notes:

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First choice varieties for less favourable sites (varieties ranked in dry matter content order)

VARIETY	Dry matter content at harvest (%)	Dry matter yield (t/ha)	Dry matter yield (% of 4 and 5 year varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)	Early vigour (1-9)	Standing power at harvest (root lodging) (1-9)	Lodging (%) #	Brackling (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed	Agent
CITO KWS	38.9	16.6	94	11.98	198	39.2	6.48	59.1	6.8	7.1	2.6	0.4	5.1	5.4	2018	KWS
GEMA	37.0	17.1	97	11.60	198	36.9	6.30	57.3	6.7	6.8	3.1	0.5	5.8	6.4	2021	LIMAGRAIN
KWS ARTIKUS	36.7	17.5	99	11.73	205	36.4	6.35	58.2	6.8	6.0	4.8	2.0	5.6	7.8	2020	KWS
AUGUSTUS KWS	36.6	16.5	93	11.80	195	37.7	6.22	58.3	6.9	6.4	3.9	0.5	5.4	6.3	2015	KWS
TROOPER	36.0	17.2	97	11.74	202	35.4	6.09	58.7	7.0	7.9	0.8	0.2	6.4	1.0	2020	LIMAGRAIN
KWS CALVINI	35.4	17.6	100	11.66	205	35.3	6.22	57.9	7.1	7.2	2.3	1.8	5.9	6.9	2019	KWS
DIGNITY	35.1	18.7	106	11.62	218	33.6	6.30	58.7	7.0	7.3	2.0	0.0	6.8	3.1	2022	LIMAGRAIN
PROSPECT	34.8	18.0	102	11.79	212	34.8	6.26	59.3	7.1	7.2	2.3	0.3	7.3	7.7	2019	LIMAGRAIN
RGT OXXGOOD	34.8	17.8	101	11.73	208	35.2	6.25	58.8	6.6	7.0	2.6	0.5	6.3	6.1	2016	RAGT
AMBITION	34.2	17.9	101	11.54	207	34.0	6.09	57.6	6.9	7.8	1.1	0.2	7.1	6.3	2012	LIMAGRAIN
RODRIGUEZ KWS	34.0	17.6	99	11.71	206	36.4	6.40	58.2	6.5	7.9	0.8	0.5	6.8	4.1	2015	KWS
LIROYAL	34.0	17.7	100	11.76	208	35.6	6.29	58.7	6.7	7.6	1.5	0.6	6.6	6.1	2019	DSV
SAXON	34.0	18.9	107	11.64	220	33.4	6.30	58.3	7.2	5.9	4.9	0.4	6.7	3.5	2022	LIMAGRAIN
MADONIAS	33.9	17.8	100	11.62	206	35.2	6.25	57.6	6.7	6.9	2.8	1.2	6.2	5.5	2018	MAISADOUR
PINNACLE	33.8	17.6	100	11.65	205	35.2	6.19	57.9	6.8	6.1	4.5	0.7	7.3	6.5	2018	LIMAGRAIN
FIELDSTAR	33.8	17.8	101	11.64	208	34.3	6.12	58.2	6.9	7.7	1.3	0.6	7.2	6.4	2013	LIMAGRAIN
KWS PASCO	33.4	19.0	107	11.65	221	34.6	6.57	57.9	7.0	6.6	3.5	2.6	6.7	7.8	2022	KWS
CONCLUSION	32.8	18.4	104	11.83	218	33.6	6.19	60.1	7.1	7.1	2.6	0.3	7.6	4.3	2020	LIMAGRAIN
RESOLUTE	32.8	19.1	108	11.65	222	33.2	6.33	58.6	7.1	7.5	1.6	0.3	7.7	3.1	2020	LIMAGRAIN
GATSBY	32.7	18.3	103	11.67	213	33.7	6.16	58.6	7.2	7.7	1.3	0.4	7.4	5.6	2017	LIMAGRAIN
SY NORDICSTAR	32.5	17.8	101	11.54	205	32.9	5.85	58.7	6.8	6.7	3.4	0.2	7.3	7.8	2016	SYNGENTA
BONNIE	32.3	18.4	104	11.72	215	34.1	6.27	59.0	7.2	7.4	1.9	0.2	7.9	5.9	2017	GRAINSEED
FARMUNOX	31.7	18.7	106	11.63	218	32.8	6.13	58.0	6.6	6.0	4.9	1.7	7.7	7.4	2020	DSV
Trial statistics																
Mean of 4&5 year varieties	34.4	17.7	100	11.64	206	34.6	6.12	58.2	6.8	7.3	2.1	0.6	6.7	5.5		
LSD (V.Cont)	1.23	0.63	3.6	0.178	-	1.59	-	1.06	0.37	-	-	-	0.52			
SE (variety mean)	0.616	0.317	1.79	0.0893	-	0.794	-	0.529	0.185	-	-	-	0.262			

On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance)

Notes:
 - indicates no data available
 ME is calculated as D-value x 0.16
 # = values are re-transformed from the mean of the log data#
 Standing Power (1-9) has been calculated so that a variety that shows significantly more lodging than the mean of the 4 & 5 year varieties receives a score of less than 7.0.
 Eyespot rating derived from inoculated nurseries rather than field scores

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Second choice varieties for less favourable sites (varieties ranked in dry matter content order)

VARIETY	Dry matter content at harvest (%)	Dry matter yield (t/ha)	Dry matter yield (% of 4 and 5 year varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)	Early vigour (1-9)	Standing power at harvest (root lodging) (1-9)	Lodging (%) #	Brackling (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed	Agent
EMMERSON	38.3	16.4	93	11.58	190	35.9	5.88	57.2	6.6	7.8	1.1	0.3	5.5	1.7	2015	DLF
RGT DUXXBURY	36.2	16.4	93	11.59	190	35.9	5.90	57.5	6.7	7.6	1.5	0.3	5.7	5.3	2018	RAGT
AVITUS KWS	36.1	17.8	101	11.74	209	36.2	6.46	58.2	7.0	4.8	7.4	1.8	5.9	5.7	2018	KWS
DEBALTO	35.0	18.1	103	11.47	208	33.3	6.03	57.0	7.0	2.3	16.6	0.3	5.7	7.4	2022	KWS
KWS EXELON	34.9	18.2	103	11.60	211	34.2	6.21	57.7	6.9	5.9	5.1	1.1	6.6	8.3	2021	KWS
ES LOVELY	34.6	17.2	97	11.56	199	35.4	6.10	57.4	6.8	7.7	1.2	0.5	6.2	3.8	2016	GRAINSEED
RGT STEWAXX	33.7	17.6	99	11.62	204	33.1	5.82	58.8	6.4	7.5	1.8	0.3	6.6	3.8	2019	RAGT
ES TOMMEN	33.6	17.4	98	11.47	199	33.6	5.84	57.3	7.3	7.7	1.3	0.4	6.5	3.8	2021	GRAINSEED
LIKEIT.	32.7	17.7	100	11.49	203	33.1	5.84	57.2	6.9	8.0	0.7	0.7	7.0	4.4	2018	DSV
ABILITY	32.4	18.3	103	11.52	211	30.5	5.59	58.7	6.8	7.8	1.1	0.5	7.7	5.9	2020	DLF
ES LEGOLAS	31.9	18.5	105	11.06	205	27.4	5.08	56.3	6.8	7.7	1.3	0.7	7.6	6.4	2019	GRAINSEED
Trial statistics																
Mean of 4&5 year varieties	34.4	17.7	100	11.64	206	34.6	6.12	58.2	6.8	7.3	2.1	0.6	6.7	5.5		
LSD (V.Cont)	1.23	0.63	3.6	0.178	-	1.59	-	1.06	0.37	-	-	-	0.52			
SE (variety mean)	0.616	0.317	1.79	0.0893	-	0.794	-	0.529	0.185	-	-	-	0.262			

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Varieties for very favourable sites (varieties ranked in ME yield ('000s MJ/ha))

VARIETY	Dry matter content at harvest (%)	Dry matter yield (t/ha)	Dry matter yield (% of 4 and 5 year varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)	Early vigour (1-9)	Standing power at harvest (root lodging) (1-9)	Lodging (%) #	Brackling (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed	Agent
MANTILLA	34.0	19.8	103	11.49	228	32.1	6.36	57.4	7.4	7.7	1.3	0.5	6.2	7.4	2021	LIMAGRAIN
LG31205	34.4	19.4	101	11.58	225	33.3	6.47	57.6	7.5	7.6	1.5	1.3	6.0	8.6	2018	LIMAGRAIN
ES METRONOM.	31.8	20.1	105	11.13	224	28.8	5.78	55.8	7.1	8.1	0.5	0.5	6.5	8.0	2018	GRAINSEED
CRANBERRI CS	34.4	19.2	100	11.66	223	32.8	6.28	59.1	7.0	7.3	2.1	0.8	5.7	6.5	2022	GRAINSEED
SMOOTH CS	32.1	19.5	102	11.42	223	32.0	6.25	57.0	7.0	7.7	1.2	0.7	5.5	7.4	2022	LIDEA FRANCE
PETROSCHKA	32.3	19.7	103	11.26	222	31.0	6.11	55.8	6.6	7.4	1.8	1.1	5.8	5.6	2018	DSV
AGAGOLD	32.8	19.0	99	11.64	222	33.1	6.30	58.1	7.2	7.8	1.1	0.9	6.1	6.9	2018	FIELD OPTIONS
SPYCI CS	34.3	18.6	97	11.74	218	34.4	6.41	58.9	7.3	7.9	0.9	0.5	4.4	4.3	2021	GRAINSEED
ABRISSE	35.5	18.6	97	11.71	218	34.3	6.38	58.9	7.1	8.1	0.5	0.9	4.3	8.1	2022	LIDEA FRANCE
SY KARTHOUN	34.6	19.3	100	11.26	217	32.6	6.28	55.7	7.3	7.0	2.8	0.7	6.1	7.7	2018	SYNGENTA
ACTUAL	36.0	18.1	94	11.73	212	35.3	6.37	58.3	7.1	7.8	1.0	2.1	4.6	6.4	2018	SYNGENTA
MARCAMO	34.3	18.8	98	11.24	211	32.0	6.02	54.7	7.0	6.5	3.8	2.8	3.4	7.2	2018	DLF
Trial statistics																
Mean of 4 year varieties	33.4	19.0	100	11.58	220	32.4	6.15	58.1	7.3	7.6	1.5	1.0	5.8	7.0	-	
LSD (V.Cont)	1.18	0.80	4.2	0.176	-	1.90	-	1.08	0.34	-	-	-	0.45	-	-	
SE (variety mean)	0.561	0.380	2.00	0.0827	-	0.89	-	0.51	0.161	-	-	-	0.214	-	-	

On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance)

ME is calculated as D-value x 0.16

= values are re-transformed from the mean of the log data

Eyespot rating derived from inoculated nurseries rather than field scores



With thanks to the Maize Growers Association for part-funding the eyespot assessments

The varieties tabulated are forage maize varieties that the breeders have nominated as having potential suitability for AD use. The List may not represent the full range of forage maize or biogas varieties that are available for the market.