

2021 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 (1000's 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
RESOLUTE	32.5	19.0	106	11.84	225	32.4	6.16	60.6	7.6	7.9	1.0	0.2	7.4	*	2020
SMOOTH CS	29.2	18.8	105	11.43	215	28.8	5.40	58.8	7.1	7.7	1.4	0.0	7.4	7.5	2019
LG31218	31.0	18.8	105	11.80	221	29.6	5.55	61.3	7.7	6.9	3.4	0.0	7.4	5.5	2018
ABILITY	33.1	18.8	104	11.74	220	30.5	5.72	60.7	7.6	8.1	0.4	0.6	7.3	*	2020
ABRISSE	31.2	18.7	104	11.52	215	29.7	5.55	59.1	7.1	7.9	0.9	0.2	7.0	8.3	2019
LG31211	31.0	18.7	104	11.83	221	29.3	5.47	61.6	7.7	7.1	2.9	0.1	7.5	4.8	2017
FARMUNOX	31.2	18.6	104	11.69	217	31.5	5.86	58.9	6.9	6.9	3.4	1.6	7.7	*	2020
CONCLUSION	33.0	18.6	104	12.00	223	33.4	6.20	61.8	7.9	7.7	1.6	0.2	7.2	*	2020
GATSBY	32.1	18.6	103	11.72	217	31.3	5.80	60.0	7.4	7.9	1.0	0.2	7.3	5.6	2017
LG30209	31.2	18.5	103	11.77	217	30.4	5.62	60.7	7.6	7.4	2.2	0.1	7.4	3.5	2016
CRANBERRI CS	30.0	18.4	103	11.61	214	28.3	5.21	60.7	7.1	7.1	2.9	0.4	7.4	6.7	2018
BONNIE	32.4	18.4	102	11.87	218	32.2	5.91	61.1	7.4	7.7	1.4	0.3	7.6	5.9	2017
ABSALON	31.9	18.4	102	11.78	216	30.6	5.61	60.9	7.2	8.0	0.7	0.0	7.1	6.0	2017
PROSPECT	34.8	18.3	102	11.96	219	33.8	6.20	61.2	7.4	7.9	0.9	0.2	7.3	7.9	2019
AVITUS KWS	34.8	18.3	102	11.83	217	35.1	6.43	59.4	7.5	6.8	3.7	1.1	5.9	5.9	2018
EXPEDIA	30.4	18.3	102	11.85	216	31.2	5.69	61.0	7.2	7.5	2.0	0.4	7.2	5.9	2018
KWS CALVINI	34.8	18.2	102	11.74	214	34.0	6.19	59.2	7.7	7.7	1.5	2.1	5.8	7.1	2019
ASGAARD	32.3	18.2	101	11.75	214	31.6	5.74	60.4	7.7	8.0	0.7	0.1	7.2	3.7	2014
PINNACLE	34.2	18.1	101	11.91	216	35.1	6.36	60.0	7.4	7.1	3.0	1.2	7.1	6.7	2018
LIROYAL	33.1	18.1	101	11.79	213	33.7	6.10	59.6	7.1	7.9	1.0	1.3	6.3	6.4	2019
AMBITION	34.2	18.1	101	11.79	213	33.8	6.10	59.7	7.4	8.1	0.6	0.2	6.9	5.9	2012
FIELDSTAR	33.1	18.0	101	11.77	212	33.0	5.95	59.9	7.2	8.1	0.6	0.7	7.1	6.0	2013
KWS ARTIKUS	36.2	17.9	100	11.88	213	35.4	6.34	59.6	7.4	6.8	3.6	2.9	5.3	*	2020
SY NORDICSTAR	32.4	17.9	100	11.72	210	32.2	5.76	60.6	7.2	7.6	1.7	0.3	7.3	7.6	2016
RODRIGUEZ KWS	32.8	17.8	99	11.89	212	35.3	6.29	60.3	6.6	8.1	0.4	0.7	7.1	3.9	2015
MADONIAS	33.0	17.8	99	11.75	208	34.0	6.04	59.1	7.1	7.6	1.6	0.9	6.2	5.7	2018
TROOPER	35.1	17.7	99	11.84	209	34.3	6.07	60.1	7.5	8.1	0.4	0.2	6.4	*	2020
GLORY	34.7	17.5	97	11.83	207	35.0	6.12	59.6	7.4	7.6	1.6	0.2	6.8	5.9	2013
AUGUSTUS KWS	35.8	16.7	93	11.97	199	36.9	6.14	60.0	7.1	7.3	2.4	0.7	5.6	6.0	2015
CITO KWS	36.8	16.4	91	12.01	197	37.0	6.07	60.2	7.2	7.7	1.6	0.4	5.2	5.6	2018
Trial statistics															
Mean of 4 & 5 year varieties	32.8	18.0	100	11.71	210	32.2	5.78	59.7	7.3	7.6	1.5	0.5	6.8	-	-
LSD (V.Cont)	0.92	0.46	2.6	0.108	-	1.21	-	0.65	0.25	-	-	-	0.44	-	-
SE (variety mean)	0.461	0.231	1.29	0.0545	-	0.607	-	0.328	0.124	-	-	-	0.221	-	-

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

Eyespot data was not recorded in 2018 trials, scores are from 2017 & 2019; * denote only one year of eyespot data

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

2021 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 (1000's 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
CATHY	30.9	18.7	104	11.57	216	27.6	5.15	60.1	7.4	8.0	0.7	0.7	7.6	4.9	2015
AMBROSINI	30.2	18.4	103	11.37	209	28.8	5.30	57.8	7.1	8.1	0.5	0.0	7.4	4.8	2010
ES LEGOLAS	30.9	18.4	102	11.02	203	24.8	4.55	56.9	7.1	7.9	1.0	0.5	7.4	6.6	2019
MARCAMO	30.3	18.3	102	11.25	206	28.4	5.19	56.8	6.9	6.9	3.5	0.9	6.6	7.4	2019
KWS ARVID	35.5	18.2	102	11.87	216	34.9	6.37	60.1	7.6	6.0	5.5	3.5	5.6	*	2020
AURELIUS KWS	32.7	18.2	101	11.65	212	31.6	5.73	59.3	7.4	7.2	2.8	1.0	6.3	4.6	2016
AUTENS KWS	33.0	18.1	101	11.70	211	32.6	5.90	59.3	7.4	5.4	7.1	1.1	6.4	5.2	2017
LIKEIT	31.9	18.1	101	11.55	209	31.7	5.73	58.3	7.6	8.0	0.7	0.3	6.7	4.7	2018
RGT STEWAXX	33.3	17.7	99	11.73	208	31.5	5.58	60.4	6.8	7.8	1.2	0.4	6.8	4.0	2019
RGT OXXGOOD	33.3	17.7	98	11.72	207	32.7	5.78	59.8	7.2	7.7	1.5	0.6	6.3	5.8	2016
REASON	34.8	17.6	98	11.83	208	33.4	5.87	60.1	7.1	7.2	2.6	0.4	6.5	3.5	2016
PEREZ KWS	34.1	17.6	98	11.72	206	34.6	6.08	58.9	7.7	6.2	5.2	0.5	6.2	4.8	2015
ES LOVELY	34.1	17.6	98	11.67	205	34.1	5.98	58.9	7.3	8.1	0.5	1.2	6.2	3.6	2016
YUKON	33.6	17.5	98	11.68	205	34.9	6.12	58.4	7.0	7.7	1.4	0.7	6.6	4.6	2012
ES REMINGTON	33.4	17.2	96	11.46	197	32.1	5.52	57.9	7.3	8.0	0.6	0.4	6.6	4.0	2014
RUBIERA KWS	35.4	16.7	93	11.96	200	36.6	6.10	60.1	7.1	7.0	3.2	0.4	5.8	5.4	2015
EMMERSON	37.0	16.6	92	11.78	195	35.4	5.87	59.1	7.0	8.1	0.5	0.8	5.7	1.9	2015
RGT DUXXBURY	35.5	16.5	92	11.74	193	35.0	5.76	59.2	7.2	7.8	1.2	0.3	5.6	5.5	2018
Trial statistics															
Mean of 4 & 5 year varieties	32.8	18.0	100	11.71	210	32.2	5.78	59.7	7.3	7.6	1.5	0.5	6.8	-	-
LSD (V.Cont)	0.92	0.46	2.6	0.108	-	1.21	-	0.65	0.25	-	-	-	0.44	-	-
SE (variety mean)	0.461	0.231	1.29	0.0545	-	0.607	-	0.328	0.124	-	-	-	0.221	-	-

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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= 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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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 (1000's 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
CITO KWS	37.7	16.3	94	11.92	194	36.7	5.99	59.7	7.2	6.8	3.8	0.6	5.0	5.6	2018
AUGUSTUS KWS	35.7	16.4	95	11.78	193	35.7	5.84	59.1	7.1	6.3	4.8	1.4	5.4	6.0	2015
TROOPER	34.8	16.8	97	11.75	198	33.8	5.69	59.4	7.3	8.0	0.7	0.3	6.5	*	2020
KWS CALVINI	34.3	17.7	103	11.63	206	33.3	5.91	58.6	7.5	7.3	2.5	3.7	6.0	7.1	2019
GLORY	34.3	16.8	98	11.69	197	34.2	5.76	59.0	7.2	7.1	3.0	0.3	7.0	5.9	2013
PROSPECT	34.1	17.8	103	11.82	210	33.2	5.90	60.4	7.4	7.5	2.0	0.5	7.4	7.9	2019
AMBITION	33.5	17.5	101	11.66	204	33.0	5.78	59.1	7.3	7.9	1.1	0.6	7.1	5.9	2012
PINNACLE	33.0	17.2	100	11.74	202	34.1	5.87	59.3	7.2	6.0	5.6	2.9	7.5	6.7	2018
LIROYAL	32.9	17.6	102	11.74	206	33.7	5.91	59.3	7.0	7.8	1.3	2.9	6.7	6.4	2019
MADONIAS	32.8	17.4	101	11.60	202	33.4	5.80	58.2	7.0	7.0	3.1	2.1	6.2	5.7	2018
FIELDSTAR	32.8	17.7	102	11.65	206	32.5	5.74	59.3	7.2	7.7	1.5	0.8	7.4	6.0	2013
RGT STEWAXX	32.7	17.5	101	11.60	203	31.1	5.45	59.5	6.7	7.5	1.9	1.0	7.0	4.0	2019
RODRIGUEZ KWS	32.7	17.1	99	11.79	202	35.1	6.01	59.7	6.5	7.9	1.1	1.9	7.0	3.9	2015
CONCLUSION	32.6	18.1	105	11.87	215	32.7	5.92	61.0	7.6	7.3	2.4	0.2	7.7	*	2020
ABILITY	32.1	18.2	106	11.58	211	29.3	5.35	59.7	7.5	8.1	0.6	1.1	7.7	*	2020
RESOLUTE	32.1	18.8	109	11.77	221	32.1	6.02	60.0	7.5	7.6	1.7	0.3	7.7	*	2020
GATSBY	31.8	17.8	103	11.69	208	32.0	5.69	59.6	7.4	7.4	2.2	0.3	7.6	5.6	2017
BONNIE	31.7	18.0	104	11.79	212	32.4	5.81	60.4	7.3	7.1	3.0	0.2	7.9	5.9	2017
SY NORDICSTAR	31.6	17.3	100	11.63	201	31.4	5.43	60.3	7.1	7.1	2.9	0.2	7.5	7.6	2016
ASGAARD	31.4	17.7	103	11.70	207	31.1	5.52	60.1	7.5	7.7	1.6	0.0	7.5	3.7	2014
ABSALON	31.2	17.8	103	11.72	208	30.4	5.41	60.5	7.0	7.6	1.7	0.0	7.5	6.0	2017
FARMUNOX	30.8	18.3	106	11.62	212	30.7	5.62	58.5	6.8	5.9	5.8	3.1	8.0	8.9	2020
Trial statistics															
Mean of 4 & 5 year varieties	33.5	17.3	100	11.64	201	32.9	5.69	59.0	7.2	7.0	2.7	0.9	6.7	-	-
LSD (V.Cont)	1.12	0.55	3.2	0.144	-	1.50	-	0.90	0.28	-	-	-	0.49	-	-
SE (variety mean)	0.562	0.278	1.61	0.0721	-	0.751	-	0.450	0.143	-	-	-	0.247	-	-

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

Limited data for Brackling% as many varieties only based on 2 items of data so 2013 trials still included.

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 (1000's 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
EMMERSON	37.2	16.4	95	11.60	190	34.6	5.65	58.0	6.8	7.6	1.8	0.7	5.3	1.9	2015
RUBIERA KWS	35.5	16.2	94	11.88	192	36.2	5.86	59.6	7.0	6.1	5.4	1.2	5.6	5.4	2015
KWS ARTIKUS	35.3	17.4	101	11.78	204	34.6	6.00	59.2	7.3	5.8	6.2	3.9	5.6	*	2020
RGT DUXXBURY	35.2	16.0	93	11.61	186	34.2	5.48	58.3	7.0	7.3	2.6	0.6	5.6	5.5	2018
KWS ARVID	35.1	17.7	102	11.79	208	34.5	6.10	59.8	7.4	4.4	9.5	4.4	5.7	*	2020
AVITUS KWS	34.8	18.1	105	11.71	211	34.5	6.22	58.7	7.4	4.8	8.5	3.4	5.8	5.9	2018
REASON	34.7	17.2	100	11.69	201	32.3	5.56	59.4	6.8	6.0	5.6	0.5	6.3	3.5	2016
PEREZ KWS	34.2	17.2	100	11.58	199	34.0	5.85	58.0	7.4	5.5	6.9	0.4	6.3	4.8	2015
YUKON	34.0	17.1	99	11.54	197	34.7	5.92	57.4	6.8	7.5	1.9	0.6	6.5	4.6	2012
ES LOVELY	33.8	17.0	98	11.55	196	33.6	5.70	58.2	7.1	7.9	0.9	1.4	6.3	3.6	2016
RGT OXXGOOD	33.6	17.3	100	11.64	201	32.7	5.66	59.2	7.0	7.3	2.4	1.1	6.4	5.8	2016
ES REMINGTON	33.2	16.7	97	11.38	190	31.5	5.27	57.5	7.3	7.8	1.3	0.3	6.8	4.0	2014
AUTENS KWS	32.8	17.5	101	11.56	202	32.1	5.61	58.5	7.2	4.6	9.1	0.7	6.5	5.2	2017
AURELIUS KWS	32.5	17.8	103	11.50	204	31.4	5.58	58.1	7.4	6.0	5.7	2.1	6.4	4.6	2016
ES LEGOLAS	30.8	18.2	105	10.99	200	24.9	4.53	56.8	7.1	7.6	1.8	1.3	7.8	6.6	2019
Trial statistics															
Mean of 4 & 5 year varieties	33.5	17.3	100	11.64	201	32.9	5.69	59.0	7.2	7.0	2.7	0.9	6.7	-	-
LSD (V.Cont)	1.12	0.55	3.2	0.144	-	1.50	-	0.90	0.28	-	-	-	0.49	-	-
SE (variety mean)	0.562	0.278	1.61	0.0721	-	0.751	-	0.450	0.143	-	-	-	0.247	-	-

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

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Eyespot rating derived from inoculated nurseries rather than field scores

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2021 FORAGE MAIZE DESCRIPTIVE LIST

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 all varieties)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest (1000's 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)
LG31211	34.6	20.4	104	11.87	242	34.3	6.99	60.4	8.0	5.9	5.9	0.9	5.7	4.8
LG30248	32.7	20.3	103	11.65	236	29.7	6.03	59.9	7.9	5.8	6.1	0.1	7.0	5.2
PETROSCHKA	32.3	20.6	104	11.45	235	32.4	6.66	57.3	6.7	7.0	3.3	2.5	6.0	5.8
AGA GOLD	32.7	19.6	99	11.86	232	34.5	6.75	59.6	7.1	7.1	3.0	2.0	6.2	7.0
METRONOM	32.3	20.6	105	11.27	232	29.5	6.09	57.2	7.2	7.8	1.1	1.0	6.6	8.4
LG31205	34.1	19.7	100	11.79	232	34.5	6.80	59.2	7.5	7.2	2.8	3.1	5.9	8.7
SY KARTHOUN	34.5	19.6	99	11.53	225	34.0	6.64	57.8	7.3	5.8	6.1	1.3	6.1	7.9
MOVANNA	32.8	19.5	99	11.45	224	33.5	6.53	57.0	7.1	7.5	1.9	4.5	4.2	5.9
TIBERIO	34.2	19.3	98	11.61	224	33.1	6.37	58.3	7.4	7.7	1.6	2.3	6.1	6.4
ACTUAL	36.0	18.6	95	11.85	221	35.5	6.62	59.6	7.2	7.3	2.6	4.5	4.7	6.5
RGT MULTIPLEX	31.8	19.3	98	11.35	219	32.2	6.21	56.7	7.2	7.7	1.6	1.2	5.8	6.8
MARCAMO	34.3	19.2	97	11.31	217	32.3	6.19	55.7	7.0	6.9	3.5	4.5	3.5	7.4
Trial statistics														
Mean of 4 & 5 year varieties	33.5	19.7	100	11.58	228	33.0	6.50	58.2	7.3	7.0	3.0	2.0	5.6	6.7
LSD (V.Cont)	1.34	0.92	1.34	0.194	-	1.76	-	1.25	0.38	-	-	-	0.54	-
SE (variety mean)	0.645	0.442	1.30	0.0930	-	-	-	0.60	0.181	-	-	-	0.262	-

Date is from 2017-2019 trials

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

Eyespot data was not recorded in 2018 trials, scores are from 2017 & 2019; * denote only one year of eyespot data



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.