

2022 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
RESOLUTE	32.9	19.1	105	11.78	224	33.5	6.39	59.6	7.6	7.8	1.1	0.2	7.5	4.1	2020
SMOOTH CS	29.4	19.0	105	11.40	217	29.6	5.63	58.2	7.0	7.6	1.4	0.1	7.3	7.7	2019
KWS EXELON	34.2	18.9	105	11.73	222	34.1	6.45	58.6	7.4	7.3	2.2	0.6	6.6	8.7	2021
FARMUNOX	31.8	18.9	104	11.69	221	32.9	6.20	58.4	7.0	7.1	2.7	1.4	7.5	8.1	2020
LG31211	31.3	18.8	104	11.81	222	31.1	5.85	60.8	7.6	6.5	3.9	0.1	7.5	5.0	2017
ABILITY	32.9	18.8	104	11.72	220	31.3	5.87	60.1	7.5	8.0	0.6	0.4	7.2	6.3	2020
ABRISSE	31.6	18.7	104	11.52	216	30.9	5.79	58.8	7.0	8.0	0.7	0.3	7.0	8.4	2019
ABSALON	32.5	18.7	103	11.78	220	32.4	6.05	60.2	7.3	8.0	0.5	0.1	7.1	6.2	2017
CRANBERRI CS	30.5	18.7	103	11.60	217	29.9	5.58	60.0	7.2	6.8	3.3	0.5	7.4	6.8	2018
GATSBY	32.3	18.7	103	11.68	218	32.7	6.09	59.0	7.5	7.9	0.8	0.2	7.2	5.8	2017
LG31218	31.2	18.6	103	11.77	219	31.0	5.78	60.3	7.6	6.2	4.5	0.0	7.5	5.6	2018
CONCLUSION	33.1	18.6	103	12.00	224	34.5	6.42	61.3	7.7	7.5	1.7	0.3	7.2	4.7	2020
BONNIE	32.8	18.5	103	11.87	220	34.0	6.29	60.3	7.5	7.7	1.3	0.3	7.5	6.1	2017
EXPEDIA	30.8	18.5	102	11.88	219	33.1	6.11	60.5	7.0	7.4	1.9	0.2	7.2	5.9	2018
PROSPECT	35.0	18.4	102	11.96	220	35.3	6.49	60.6	7.5	8.0	0.7	0.2	7.2	8.0	2019
KWS CALVINI	35.0	18.2	101	11.74	214	35.0	6.36	58.8	7.7	7.7	1.4	1.6	5.9	7.2	2019
PINNACLE	34.4	18.2	100	11.85	215	35.7	6.47	59.3	7.4	7.2	2.4	0.7	7.1	6.8	2018
AVITUS KWS	35.2	18.1	100	11.85	215	36.0	6.53	59.1	7.4	6.6	3.6	1.6	5.8	6.0	2018
AMBITION	34.5	18.1	100	11.75	213	34.7	6.30	59.0	7.4	8.1	0.5	0.2	6.9	5.8	2012
FIELDSTAR	33.5	18.1	100	11.73	212	33.9	6.13	59.2	7.3	8.1	0.5	0.5	6.9	6.0	2013
LIROYAL	33.6	18.0	100	11.83	213	35.0	6.29	59.4	7.1	8.0	0.7	0.6	6.2	6.6	2019
MADONIAS	33.5	18.0	99	11.79	212	35.5	6.38	58.8	7.1	7.7	1.3	0.6	6.1	5.8	2018
RODRIGUEZ KWS	33.3	17.9	99	11.83	211	35.7	6.38	59.6	6.8	8.1	0.4	0.4	6.9	4.1	2015
GEMA	35.8	17.8	99	11.74	209	36.8	6.55	58.3	7.0	7.6	1.5	0.5	6.1	6.8	2021
TROOPER	35.3	17.7	98	11.83	209	35.3	6.25	59.5	7.6	8.1	0.4	0.2	6.5	1.0	2020
RUBIERA KWS	35.3	16.8	93	11.95	201	37.1	6.25	59.7	7.2	6.9	2.9	0.7	5.9	5.6	2015
AUGUSTUS KWS	35.7	16.7	93	11.99	201	37.7	6.31	59.7	7.2	7.1	2.5	1.2	5.7	6.2	2015
CITO KWS	37.0	16.6	92	12.00	199	37.7	6.26	59.8	7.3	7.6	1.6	0.5	5.4	5.6	2018
Trial statistics															
Mean of 4&5 year varieties	33.4	18.1	100	11.73	212	33.6	6.07	59.2	7.3	7.6	1.5	0.5	6.7		
LSD (V.Cont)	0.91	0.51	2.8	0.122	-	1.21	-	0.76	0.32	-	-	-	0.48		
SE (variety mean)	0.459	0.256	1.42	0.0612	-	0.612	-	0.383	0.160	-	-	-	0.242		

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
 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

2022 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
RGT OXXFORD	29.8	18.8	104	11.18	210	24.8	4.66	57.7	7.2	7.7	1.2	0.3	6.8	7.8	2021
CATHY	31.0	18.7	103	11.53	215	29.0	5.41	59.3	7.5	8.0	0.6	0.6	7.6	5.0	2015
ES LEGOLAS	31.3	18.4	102	11.09	204	26.5	4.88	56.8	7.1	7.9	1.0	0.4	7.3	6.7	2019
MARCAMO	30.8	18.3	101	11.21	206	29.6	5.42	56.0	6.9	6.0	4.9	1.4	6.5	7.5	2019
AURELIUS KWS	32.9	18.2	101	11.67	213	32.7	5.95	58.9	7.5	7.1	2.6	0.9	6.3	4.7	2016
AUTENS KWS	33.6	18.1	100	11.74	213	34.3	6.22	58.9	7.5	5.5	6.0	0.8	6.3	5.3	2017
LIKEIT	32.2	18.0	100	11.56	208	32.6	5.87	57.9	7.6	8.1	0.4	0.4	6.7	4.7	2018
SY NORDICSTAR	32.7	17.9	99	11.66	209	33.0	5.92	59.6	7.3	7.6	1.6	0.1	7.0	7.7	2016
RGT OXXGOOD	33.9	17.8	99	11.76	209	34.0	6.06	59.6	7.0	7.5	1.6	0.4	6.2	6.0	2016
RGT STEWAXX	33.5	17.8	98	11.71	208	32.3	5.73	59.9	6.7	7.9	0.9	0.3	6.7	4.1	2019
ES TOMMEN	33.5	17.7	98	11.65	206	33.7	5.96	58.9	7.7	8.0	0.6	0.3	6.5	4.2	2021
ES LOVELY	34.3	17.7	98	11.64	206	34.9	6.16	58.3	7.3	8.1	0.5	0.7	6.2	3.7	2016
REASON	34.8	17.6	97	11.80	208	34.2	6.02	59.5	7.1	7.1	2.5	0.4	6.5	3.6	2016
PEREZ KWS	34.3	17.4	96	11.72	204	35.5	6.19	58.5	7.6	6.3	4.3	0.6	6.1	5.0	2015
EMMERSON	37.1	16.7	92	11.81	197	36.5	6.08	58.9	7.0	8.1	0.4	0.5	5.9	1.8	2015
RGT DUXXBURY	35.9	16.7	92	11.75	196	35.7	5.95	58.9	7.1	7.9	0.9	0.3	5.6	5.5	2018
Trial statistics															
Mean of 4&5 year varieties	33.4	18.1	100	11.73	212	33.6	6.07	59.2	7.3	7.6	1.5	0.5	6.7		
LSD (V.Cont)	0.91	0.51	2.8	0.122	-	1.21	-	0.76	0.32	-	-	-	0.48		
SE (variety mean)	0.459	0.256	1.42	0.0612	-	0.612	-	0.383	0.160	-	-	-	0.242		

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

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

2022 FORAGE MAIZE DESCRIPTIVE LIST

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
CITO KWS	38.2	16.5	93	11.97	197	38.3	6.30	59.3	7.1	7.1	2.6	0.5	5.0	5.6	2018
GEMA	37.0	17.1	97	11.62	199	36.7	6.28	57.5	6.8	7.3	2.2	0.6	5.8	6.8	2021
AUGUSTUS KWS	36.0	16.6	94	11.78	196	36.8	6.12	58.5	7.1	6.5	3.8	0.9	5.4	6.2	2015
RUBIERA KWS	35.9	16.4	93	11.86	194	37.3	6.11	59.0	7.0	6.3	4.2	0.6	5.5	5.6	2015
TROOPER	35.7	17.2	97	11.76	202	35.0	6.01	58.9	7.2	8.0	0.7	0.3	6.3	1.0	2020
KWS CALVINI	35.4	17.8	101	11.71	208	35.4	6.29	58.3	7.4	7.3	2.2	1.9	5.9	7.2	2019
PROSPECT	34.5	18.0	102	11.83	213	34.6	6.24	59.7	7.3	7.5	1.7	0.3	7.3	8.0	2019
RGT OXXGOOD	34.3	17.6	100	11.69	206	34.4	6.06	58.8	6.8	7.2	2.4	0.6	6.3	6.0	2016
AMBITION	34.1	17.7	100	11.65	206	34.2	6.04	58.5	7.2	7.8	1.0	0.3	7.1	5.8	2012
MADONIAS	33.7	17.7	100	11.63	206	35.0	6.19	57.8	7.0	7.1	2.5	1.4	6.1	5.8	2018
RODRIGUEZ KWS	33.6	17.5	99	11.77	206	36.2	6.34	58.8	6.6	7.9	0.8	0.6	6.8	4.1	2015
LIRoyal	33.6	17.6	100	11.75	207	35.0	6.18	58.8	7.0	7.8	1.1	0.7	6.4	6.6	2019
PINNACLE	33.6	17.6	100	11.73	206	35.1	6.15	58.6	7.0	6.4	4.1	0.9	7.4	6.8	2018
FIELDSTAR	33.6	17.8	101	11.67	208	34.0	6.06	58.6	7.1	7.7	1.2	0.6	7.1	6.0	2013
RESOLUTE	32.7	18.8	107	11.70	220	32.9	6.20	59.0	7.4	7.7	1.4	0.3	7.7	4.1	2020
CONCLUSION	32.6	18.5	105	11.88	219	33.2	6.13	60.6	7.4	7.3	2.1	0.4	7.6	4.7	2020
ABSALON	32.5	18.5	105	11.74	217	32.6	6.02	59.8	7.0	7.9	0.8	0.2	7.3	6.2	2017
SY NORDICSTAR	32.4	17.6	100	11.59	204	33.0	5.81	59.2	7.1	6.9	3.0	0.2	7.3	7.7	2016
GATSBY	32.4	18.3	104	11.71	214	33.6	6.15	58.9	7.4	7.7	1.2	0.4	7.4	5.8	2017
BONNIE	32.3	18.3	104	11.80	216	33.9	6.19	59.8	7.3	7.3	2.1	0.3	7.9	6.1	2017
FARMUNOX	31.7	18.6	105	11.60	215	32.1	5.96	57.9	6.8	6.2	4.5	1.9	7.7	8.1	2020
Trial statistics															
Mean of 4&5 year varieties	34.1	17.6	100	11.66	206	34.1	6.02	58.5	7.1	7.3	2.2	0.7	6.6		
LSD (V.Cont)	1.19	0.64	3.6	0.163	-	1.53	-	1.01	0.37	-	-	-	0.56		
SE (variety mean)	0.596	0.321	1.82	0.0821	-	0.769	-	0.508	0.185	-	-	-	0.284		

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
 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

2022 FORAGE MAIZE DESCRIPTIVE LIST

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
EMMERSON	37.8	16.6	94	11.62	192	35.7	5.91	57.5	6.8	7.8	1.1	0.7	5.4	1.8	2015
RGT DUXXBURY	36.0	16.4	93	11.65	191	35.7	5.85	58.0	6.9	7.6	1.5	0.4	5.6	5.5	2018
AVITUS KWS	35.7	17.9	102	11.73	211	35.9	6.43	58.3	7.2	5.2	6.7	2.0	5.7	6.0	2018
REASON	35.6	17.3	98	11.70	202	33.9	5.85	58.8	6.8	5.7	5.6	0.4	6.2	3.6	2016
PEREZ KWS	35.1	17.2	98	11.58	199	35.5	6.11	57.2	7.2	5.8	5.4	1.0	6.0	5.0	2015
KWS EXELON	34.7	18.1	102	11.58	209	33.5	6.04	57.8	7.1	6.1	4.8	1.2	6.6	8.7	2021
ES LOVELY	34.3	17.2	97	11.54	198	34.9	5.99	57.5	7.0	7.8	1.0	0.7	6.2	3.7	2016
AUTENS KWS	33.9	17.7	100	11.65	206	34.3	6.06	58.2	7.1	4.7	7.6	0.8	6.3	5.3	2017
RGT STEWAXX	33.4	17.6	100	11.60	204	32.4	5.70	58.9	6.6	7.6	1.5	0.5	6.7	4.1	2019
ES TOMMEN	33.4	17.4	99	11.50	200	33.3	5.81	57.6	7.5	7.8	1.1	0.5	6.6	4.2	2021
AURELIUS KWS	33.0	17.9	102	11.48	206	32.7	5.86	57.5	7.3	6.2	4.4	1.0	6.3	4.7	2016
ABILITY	32.4	18.5	105	11.59	214	30.3	5.59	59.3	7.2	7.9	0.8	0.5	7.7	6.3	2020
LIKEIT	32.3	17.7	100	11.48	203	32.3	5.73	57.3	7.2	8.0	0.6	0.7	6.8	4.7	2018
ES LEGOLAS	31.5	18.4	104	11.02	202	26.6	4.87	56.3	7.0	7.6	1.4	0.6	7.6	6.7	2019
Trial statistics															
Mean of 4&5 year varieties	34.1	17.6	100	11.66	206	34.1	6.02	58.5	7.1	7.3	2.2	0.7	6.6		
LSD (V.Cont)	1.19	0.64	3.6	0.163	-	1.53	-	1.01	0.37	-	-	-	0.56		
SE (variety mean)	0.596	0.321	1.82	0.0821	-	0.769	-	0.508	0.185	-	-	-	0.284		

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

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

2022 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 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 (%) #	Bracking (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)	Year first listed
LG31211	34.2	19.5	103	11.84	231	34.1	6.66	60.0	8.0	6.5	3.9	0.5	5.9	5.0	2018
MANTILLA	33.5	19.6	103	11.67	229	32.8	6.44	58.9	7.3	7.5	1.7	0.5	6.3	7.7	2021
LG31205	34.0	19.3	101	11.73	226	33.5	6.45	58.7	7.5	7.4	1.9	1.3	6.1	8.9	2018
LG30248	32.0	19.4	102	11.62	225	28.8	5.57	59.6	7.8	6.2	4.5	0.1	7.1	5.3	2018
AGA GOLD	32.6	18.8	99	11.78	221	33.2	6.25	59.2	7.2	7.6	1.4	0.9	6.2	7.2	2018
PETROSKHA	32.2	19.4	102	11.40	221	31.9	6.21	56.8	6.4	7.4	2.0	1.1	6.0	5.9	2018
ES METRONOM	31.6	19.7	104	11.26	221	28.8	5.65	57.0	7.0	8.0	0.6	0.5	6.7	8.5	2018
NEUTRINO	31.0	19.6	103	11.11	217	26.3	5.14	56.6	7.3	7.6	1.5	6.5	6.0	8.0	2021
SY KARTHOUN	34.1	18.9	99	11.42	216	32.8	6.20	57.1	7.2	6.2	4.4	0.7	6.1	8.0	2018
RGT BIXX	31.5	19.0	100	11.35	216	30.0	5.71	57.0	7.6	7.4	1.9	2.3	6.3	5.5	2021
SPYCI CS	34.3	18.1	95	11.83	214	34.1	6.16	59.9	7.4	7.8	1.1	0.5	4.4	4.2	2021
ACTUAL	35.9	17.7	93	11.81	209	35.5	6.30	59.0	7.2	7.7	1.3	2.1	4.7	6.7	2018
MARCAMO	34.2	18.3	97	11.35	208	32.5	5.95	55.6	7.1	7.1	2.7	2.8	3.5	7.5	2018
Trial statistics															
Mean of 4 year varieties	33.4	19.0	100	11.58	220	32.4	6.15	58.1	7.3	7.2	2.3	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

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.



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