

2020 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
SMOOTHI CS	29.0	19.3	107	11.32	218	28.5	5.50	57.8	7.2	7.9	0.9	0.0	7.8	*	2019
ABRISSE	30.9	19.1	107	11.51	220	30.0	5.73	58.8	7.0	7.9	0.9	0.0	7.2	*	2019
GATSBY	32.2	18.7	104	11.66	218	31.6	5.89	59.3	7.3	7.8	1.2	0.6	7.3	5.4	2017
KOMPETENS	30.8	18.6	104	11.61	216	30.7	5.72	58.7	6.6	8.1	0.4	0.4	8.0	7.1	2016
AVITUS KWS	35.1	18.6	104	11.77	219	35.6	6.62	58.5	7.6	7.1	2.7	0.7	5.8	5.7	2018
CRANBERRI CS	29.8	18.6	103	11.53	214	28.3	5.25	60.0	7.0	6.9	3.3	0.7	7.5	6.6	2018
PROSPECT	35.1	18.6	103	11.98	222	34.6	6.42	60.9	7.3	8.0	0.6	0.1	7.2	*	2019
BONNIE	32.6	18.6	103	11.82	219	32.4	6.01	60.6	7.4	7.5	1.9	0.3	7.5	5.8	2017
AURELIUS KWS	32.7	18.5	103	11.59	215	31.7	5.88	58.5	7.7	7.8	1.2	0.5	6.3	4.6	2016
LG30209	31.3	18.5	103	11.70	217	30.4	5.64	60.0	7.6	7.0	2.9	0.0	7.3	3.3	2016
LIROYAL	33.3	18.5	103	11.72	216	33.7	6.23	58.8	7.3	8.0	0.6	0.8	6.3	*	2019
ABSALON	31.8	18.4	103	11.69	216	30.4	5.60	60.2	7.2	8.0	0.8	0.0	7.1	5.9	2017
EXPEDIA	30.8	18.4	103	11.77	217	31.4	5.79	60.2	7.2	8.0	0.7	0.2	7.3	5.7	2018
KWS CALVINI	35.0	18.4	103	11.69	215	34.5	6.34	58.4	7.8	7.7	1.4	2.7	5.7	*	2019
ASGAARD	32.3	18.3	102	11.67	214	31.7	5.80	59.6	7.8	8.0	0.6	0.0	7.1	3.8	2014
PINNACLE	34.6	18.3	102	11.89	217	35.9	6.55	59.4	7.4	7.0	3.0	0.9	7.2	6.6	2018
AMBITION	34.3	18.2	101	11.77	214	34.5	6.27	59.2	7.4	8.1	0.5	0.1	6.9	6.3	2012
FIELDSTAR	33.3	18.2	101	11.73	213	33.5	6.10	59.3	7.4	8.1	0.4	0.3	7.2	6.5	2013
RODRIGUEZ KWS	32.7	18.2	101	11.76	214	34.7	6.31	59.2	6.7	8.2	0.2	0.3	7.1	3.8	2015
SY NORDICSTAR	32.6	18.2	101	11.67	212	32.4	5.89	59.8	7.3	7.8	1.2	0.2	7.4	7.5	2016
YUKON	33.8	18.0	100	11.64	210	35.4	6.38	57.6	7.1	8.0	0.8	0.5	6.6	5.0	2012
REASON	35.4	17.9	100	11.78	211	33.9	6.06	59.3	7.3	7.6	1.6	0.5	6.4	3.4	2016
GLORY	34.8	17.8	99	11.80	209	35.5	6.30	59.0	7.4	7.9	0.8	0.1	6.7	6.3	2013
RUBIERA KWS	35.9	16.9	94	11.92	201	37.0	6.26	59.4	7.3	7.1	2.8	0.4	5.5	5.4	2015
EMMERSON	37.3	16.7	93	11.74	196	36.2	6.03	58.4	7.1	8.2	0.2	1.1	5.5	2.6	2015
AUGUSTUS KWS	36.3	16.6	93	11.90	198	36.9	6.14	59.3	7.3	7.3	2.2	1.1	5.4	6.0	2015
Trial statistics															
Mean of 4 & 5 year varieties	33.1	18.0	100	11.68	210	32.8	5.90	59.0	7.3	7.6	1.2	0.3	6.7		
LSD (V.Cont)	0.93	0.46	2.6	0.111	-	1.31	-	0.64	0.28	-	-	-	0.44		
SE (variety mean)	0.466	0.230	1.28	0.0558	-	0.659	-	0.323	0.140	-	-	-	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

Limited data for brackling % with some varieties only having 1 trials worth of data

Eyespot rating derived from inoculated nurseries rather than field scores

* Eyespot data was not recorded in 2018 trials, scores are from 2016-17; asterisks denote either no data or only from 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

2020 FORAGE MAIZE DESCRIPTIVE LIST

Second choice varieties for favourable sites (varieties ranked in dry matter yield order)¹

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
LG31218	30.8	18.9	105	11.76	222	29.6	5.59	60.8	7.6	6.4	4.3	0.0	7.4	5.4	2018
CATHY	30.9	18.8	105	11.50	216	27.5	5.17	59.5	7.3	8.1	0.5	0.1	7.6	4.8	2015
LG31211	30.7	18.8	105	11.76	221	29.1	5.45	61.0	7.7	6.5	4.2	0.0	7.4	4.6	2017
AMBROSINI	30.3	18.8	104	11.30	212	29.0	5.44	57.0	7.3	8.1	0.4	0.0	7.4	5.2	2010
MARCAMO	30.6	18.7	104	11.21	209	29.2	5.45	56.1	6.6	6.8	3.4	1.6	6.6	*	2019
ES LEGOLAS	31.0	18.6	104	11.06	206	26.2	4.88	56.5	6.9	8.0	0.7	0.3	7.5	*	2019
AUTENS KWS	33.3	18.5	103	11.65	215	33.1	6.11	58.6	7.6	6.2	4.9	1.6	6.3	5.0	2017
CARDIF	30.6	18.4	102	11.44	210	28.8	5.29	58.9	7.9	8.1	0.4	1.4	7.0	*	2019
ES MARCO	29.7	18.3	102	11.36	208	29.5	5.40	57.4	6.5	7.7	1.3	0.3	7.7	6.9	2015
MONTY	32.4	18.2	102	11.64	212	30.5	5.56	59.7	7.0	8.1	0.5	0.2	7.5	4.5	2014
LIKEIT	32.1	18.2	101	11.48	209	31.9	5.82	57.5	7.7	8.2	0.3	0.4	6.5	4.5	2018
CODITANK	30.3	18.2	101	11.46	208	28.8	5.23	59.1	6.5	8.1	0.5	0.0	7.2	6.2	2015
DSP 46132	32.1	18.2	101	11.48	209	30.3	5.50	58.5	7.5	8.3	0.0	2.6	6.6	*	2019
MADONIAS	33.0	18.0	100	11.66	209	34.2	6.13	58.2	7.1	7.8	1.0	1.0	6.3	5.5	2018
RGT STEWAXX	33.4	17.9	100	11.69	210	32.1	5.75	59.6	6.8	8.0	0.6	0.3	6.6	*	2019
PEREZ KWS	34.4	17.9	100	11.62	208	34.5	6.16	58.0	7.7	6.9	3.3	0.7	6.1	4.8	2015
RGT OXXGOOD	33.5	17.8	99	11.70	208	33.3	5.92	59.3	7.3	7.8	1.1	0.3	6.2	5.8	2016
SEVERUS	33.7	17.8	99	11.65	207	34.7	6.16	58.1	7.3	8.0	0.7	0.5	6.5	5.3	2013
ES LOVELY	34.3	17.7	99	11.58	206	34.1	6.05	58.0	7.5	8.3	0.0	1.1	6.2	3.5	2016
ROGOSO	29.4	17.7	99	11.21	199	29.8	5.29	56.8	6.7	8.3	0.1	0.0	6.8	6.3	2016
ARCADE	34.2	17.4	97	11.77	205	33.9	5.91	59.7	7.1	8.1	0.5	0.3	6.7	4.8	2012
ES REMINGTON	33.3	17.3	96	11.35	196	31.8	5.50	57.1	7.5	8.1	0.4	0.3	6.6	4.1	2014
SERGIO KWS	35.0	16.9	94	11.89	201	36.4	6.15	59.7	7.5	7.2	2.5	0.5	5.8	5.7	2014
ACTIVATE	35.7	16.7	93	11.97	200	36.0	6.02	60.3	6.7	8.0	0.7	0.1	6.6	4.6	2012
RGT DUXSBURY	35.7	16.7	93	11.68	195	35.3	5.89	58.3	7.2	8.0	0.7	0.2	5.6	5.3	2018
CITO KWS	36.9	16.3	91	11.93	194	36.9	6.00	59.5	7.3	7.8	1.0	0.5	5.0	5.4	2018
Trial statistics															
Mean of 4 & 5 year varieties	33.1	18.0	100	11.68	210	32.8	5.90	59.0	7.3	7.6	1.2	0.3	6.7		
LSD (V.Cont)	0.93	0.46	2.6	0.111	-	1.31	-	0.64	0.28	-	-	-	0.44		
SE (variety mean)	0.466	0.230	1.28	0.0558	-	0.659	-	0.323	0.140	-	-	-	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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2020 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 (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	37.7	16.6	95	11.58	192	35.3	5.87	57.6	7.0	7.8	1.1	0.9	5.2	2.6	2015
CITO KWS	37.5	16.5	94	11.79	195	36.3	5.99	58.9	7.3	7.2	2.5	1.4	4.9	5.4	2018
ACTIVATE	35.5	16.5	94	11.82	195	35.3	5.83	59.5	6.8	7.7	1.3	0.0	6.7	4.6	2012
GLORY	34.5	17.4	100	11.62	202	34.4	6.00	58.3	7.3	7.6	1.7	0.1	7.0	6.3	2013
KWS CALVINI	34.3	18.0	103	11.54	208	33.5	6.03	57.7	7.6	7.3	2.4	4.3	5.9	*	2019
PROSPECT	34.1	18.3	104	11.81	216	33.6	6.14	60.2	7.5	7.7	1.4	0.3	7.1	*	2019
AMBITION	33.8	17.9	102	11.64	208	33.5	5.98	58.7	7.4	7.9	0.8	0.4	6.9	6.3	2012
RGT OXXGOOD	33.7	17.6	101	11.56	204	33.1	5.85	58.4	7.1	7.4	2.1	0.6	6.3	5.8	2016
LIROYAL	33.1	18.0	103	11.63	209	33.7	6.07	58.3	7.2	8.0	0.7	1.8	6.5	*	2019
FIELDSTAR	33.0	18.0	103	11.58	209	32.8	5.91	58.5	7.4	7.8	1.1	0.0	7.4	6.5	2013
MADONIAS	32.9	17.8	102	11.49	204	33.5	5.95	57.2	7.1	7.6	1.6	2.8	6.3	5.5	2018
RGT STEWAXX	32.8	18.0	103	11.53	207	31.4	5.64	58.8	6.7	7.8	1.1	0.8	6.9	*	2019
RODRIGUEZ KWS	32.4	17.7	101	11.61	205	34.2	6.05	58.5	6.7	8.0	0.7	0.8	7.2	3.8	2015
DSP 46132	31.9	18.3	104	11.44	209	30.7	5.60	58.4	7.5	8.3	0.0	2.9	7.0	*	2019
GATSBY	31.9	18.2	104	11.58	210	31.9	5.80	58.6	7.4	7.4	2.2	0.0	7.5	5.4	2017
BONNIE	31.8	18.2	104	11.73	214	32.3	5.89	59.9	7.4	6.9	3.3	0.0	7.6	5.8	2017
SY NORDICSTAR	31.7	17.8	102	11.52	205	31.3	5.56	59.3	7.2	7.3	2.4	0.2	7.6	7.5	2016
ASGAARD	31.4	18.0	103	11.58	208	30.9	5.55	59.3	7.6	7.7	1.3	0.0	7.4	3.8	2014
ABSALON	31.4	18.2	104	11.65	211	30.2	5.48	60.0	7.1	7.7	1.4	0.0	7.3	5.9	2017
CARDIF	30.3	18.1	103	11.48	208	30.3	5.48	58.7	7.8	8.1	0.5	1.6	7.2	*	2019
Trial statistics															
Mean of 4 & 5 year varieties	33.8	17.5	100	11.58	203	33.4	5.85	58.3	7.2	7.3	2.0	0.6	6.5		-
LSD (V.Cont)	1.11	0.52	2.9	0.146	-	1.63	-	0.85	0.34	-	-	-	0.67	-	-
SE (variety mean)	0.557	0.259	1.48	0.0731	-	0.817	-	0.427	0.169	-	-	-	0.338	-	-

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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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
AUGUSTUS KWS	36.4	16.5	94	11.66	192	35.5	5.83	58.1	7.2	6.3	4.6	2.1	5.1	6.0	2015
RUBIERA KWS	36.2	16.5	94	11.82	195	36.6	6.03	58.9	7.3	5.9	5.5	1.7	5.1	5.4	2015
SERGIO KWS	35.8	16.7	95	11.79	196	36.7	6.10	59.0	7.5	6.6	3.8	0.5	5.6	5.7	2014
REASON	35.4	17.7	101	11.65	206	33.0	5.84	58.7	7.1	6.9	3.3	0.6	6.1	3.4	2016
RGT DUXSBURY	35.1	16.5	94	11.49	190	34.1	5.62	57.3	7.1	7.6	1.5	0.5	5.5	5.3	2018
AVITUS KWS	35.1	18.5	106	11.60	214	34.8	6.42	57.6	7.6	5.2	7.1	3.2	5.7	5.7	2018
PEREZ KWS	34.6	17.6	101	11.49	202	34.1	6.00	57.2	7.6	6.9	3.3	0.5	6.0	4.8	2015
ES LOVELY	34.1	17.3	99	11.45	198	33.8	5.86	57.2	7.3	8.2	0.3	0.8	6.3	3.5	2016
YUKON	34.1	17.6	101	11.41	201	34.6	6.09	56.4	7.0	7.8	1.2	0.1	6.6	5.0	2012
ARCADE	34.0	17.0	97	11.67	198	33.6	5.70	59.2	6.9	7.7	1.3	1.1	6.7	4.8	2012
AUTENS KWS	33.3	18.1	104	11.46	208	32.6	5.91	57.4	7.4	6.3	4.6	0.2	6.3	5.0	2017
PINNACLE	33.3	17.5	100	11.70	205	34.7	6.07	58.7	7.3	5.9	5.4	2.2	7.4	6.6	2018
SEVERUS	33.2	17.3	99	11.46	198	33.5	5.79	57.2	7.2	7.7	1.4	0.1	6.5	5.3	2013
ES REMINGTON	33.2	17.0	97	11.25	192	31.2	5.32	56.7	7.3	7.9	0.9	0.3	6.7	4.1	2014
AURELIUS KWS	32.6	18.2	104	11.43	208	31.7	5.77	57.5	7.6	6.7	3.7	1.2	6.4	4.6	2016
MONTY	31.8	18.1	103	11.53	208	29.7	5.36	59.1	6.9	8.0	0.8	0.3	7.7	4.5	2014
LIKEIT	31.3	18.1	103	11.34	205	30.9	5.58	56.8	7.5	8.1	0.5	0.4	7.0	4.5	2018
ES LEGOLAS	30.9	18.8	108	11.02	207	26.4	4.97	56.3	7.0	7.7	1.4	0.7	7.6	*	2019
Trial statistics															
Mean of 4 & 5 year varieties	33.8	17.5	100	11.58	203	33.4	5.85	58.3	7.2	7.3	2.0	0.6	6.5		-
LSD (V.Cont)	1.11	0.52	2.9	0.146	-	1.63	-	0.85	0.34	-	-	-	0.67	-	-
SE (variety mean)	0.557	0.259	1.48	0.0731	-	0.817	-	0.427	0.169	-	-	-	0.338	-	-

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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2020 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 (%) #	Leaf senescence (1-9)	Eyespot rating (1-9)
LG31211	34.7	20.9	105	11.83	247	34.4	7.20	60.1	8.1	5.1	7.3	6.0	4.6
LG30248	33.0	20.9	105	11.67	244	30.6	6.40	59.9	7.9	5.0	7.5	6.9	*
AGA GOLD	32.9	20.3	102	11.82	240	34.8	7.07	59.3	7.2	6.2	4.8	6.6	*
PETROSCHKA	32.4	20.8	105	11.42	238	32.4	6.76	57.2	6.5	7.2	2.6	6.0	*
LG31205	34.3	20.2	101	11.80	238	35.2	7.09	59.1	7.6	7.0	2.9	5.9	*
METRONOM	32.5	21.1	106	11.25	237	29.9	6.31	57.0	7.1	7.5	1.8	6.8	*
WATSON	32.2	20.7	104	11.45	237	28.5	5.89	58.6	7.2	5.9	5.5	6.2	*
SY KARTHOUN	34.7	20.0	101	11.54	231	34.6	6.94	57.7	7.4	5.4	6.6	6.2	*
MOVANNA	32.7	20.2	101	11.39	230	33.6	6.77	56.5	7.2	7.2	2.5	4.4	5.7
TIBERIO	34.2	19.6	99	11.54	226	32.7	6.41	57.9	7.4	7.2	2.6	6.2	6.3
ACTUAL	35.8	19.1	96	11.82	225	35.7	6.80	59.4	7.4	7.4	2.1	4.7	*
MAS 11F	34.1	19.2	97	11.60	223	33.6	6.45	58.1	7.4	6.5	4.0	6.0	4.6
RGT MULTIPLEXX	32.0	19.7	99	11.23	222	32.1	6.34	55.8	7.1	7.3	2.2	5.8	*
BABEXX	33.3	18.9	95	11.54	218	33.6	6.36	58.0	7.1	5.9	5.5	5.7	5.6
MARCAMO	34.4	19.5	98	11.14	218	31.6	6.17	54.8	6.9	7.0	2.9	3.5	*
ROGOSO	33.6	19.0	95	11.26	214	33.2	6.32	56.2	6.7	7.7	1.3	4.5	6.3
RGT FOREXXIA	30.9	19.0	95	11.15	212	27.1	5.14	57.0	6.9	7.6	1.7	7.0	*
Trial statistics													
Mean of 4 & 5 year varieties	33.5	19.9	100	11.51	229	32.6	6.49	57.9	7.3	6.7	4.0	5.8	
LSD (V.Cont)	1.40	0.94	4.7	0.167	-	1.64	-	1.13	0.42	-	-	0.61	
SE (variety mean)	0.683	0.461	1.30	0.0813	-	-	-		0.208	-	-	0.296	

Data from 2017 and 2018 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 2016-17; asterisks denote either no data or only from 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.