

## Supplementary material

Supplementary Material Figure S1. Tassels of non-pollen producing maize plant (containing Ms44), on the left, and of conventional maize plant, on the right.



Supplementary Material S2. Questionnaire 2017 (Separate file)

Supplementary Material S3. Questionnaire 2018 (Separate file)



Supplementary Material Table S5. Farmer evaluation of the different entries (5-point hedonic scale), even varieties are fertile (numbers are mean values)

Season	Entry	Germi nation	Height	Stalk thickness	Number of cobs	Cob size	Barrenness level	Yield	Bio- mass	Stalk borer resistance	Drought resistance	Foliar diseases resistance	Tillers devpt	Early maturing	Good Husk tip cover	Ear drooping	Cob rot resistance	Lodging resistance	Good tassel formation	Amount of pollen shed	Overall evaluation
Mid season	1	4.44	4.20	3.88	3.37	3.22	3.48	3.38	4.09	3.90	3.61	3.87	4.04	3.20					3.69	3.70	3.41
	2	4.39	4.09	3.70	3.22	3.03	3.24	3.06	3.99	3.84	3.48	3.81	3.95	3.14					3.85	3.71	3.24
	3	4.54	4.19	3.74	3.56	3.53	3.71	3.67	4.14	4.09	3.79	3.94	4.05	3.59					3.75	3.72	3.67
	4	4.52	4.15	3.68	3.50	3.48	3.65	3.56	4.18	3.99	3.76	3.94	4.09	3.54					3.97	3.92	3.66
	5	4.57	4.22	3.87	3.73	3.75	3.95	3.90	4.09	4.12	3.97	4.05	4.09	3.99					4.03	4.01	3.98
	6	4.54	4.27	3.98	3.84	3.72	3.92	3.81	4.07	3.96	3.99	3.93	4.15	4.08					4.10	4.18	3.94
	7	4.33	4.11	3.55	3.61	3.41	3.67	3.56	3.83	3.82	3.73	3.48	3.94	3.78					3.72	3.61	3.64
	8	4.31	4.10	3.55	3.59	3.39	3.72	3.53	3.77	3.73	3.72	3.52	3.97	3.72					3.98	3.80	3.56
End season	1	4.12	3.79	3.55	3.36	3.41	3.53	3.49	3.72	3.59	3.77	3.22		3.84	3.35	3.38	3.43	3.81	3.58		3.47
	2	3.94	3.69	3.35	3.13	3.08	3.34	3.23	3.66	3.54	3.63	3.29		3.72	3.18	3.27	3.35	3.65	3.44		3.24
	3	4.26	4.05	3.67	3.67	3.64	3.82	3.81	3.90	3.88	3.99	3.73		3.99	3.88	3.60	3.80	3.85	3.72		3.82
	4	4.25	4.07	3.61	3.59	3.61	3.81	3.78	3.96	3.83	3.96	3.75		3.97	3.71	3.56	3.74	3.84	3.79		3.81
	5	4.10	3.71	3.46	3.53	3.61	3.72	3.73	3.61	3.75	3.93	3.46		4.14	3.47	3.61	3.64	3.82	3.57		3.70
	6	4.04	3.67	3.43	3.44	3.51	3.66	3.60	3.55	3.66	3.88	3.38		4.08	3.25	3.46	3.43	3.74	3.54		3.57
	7	3.96	3.77	3.19	3.37	3.21	3.51	3.45	3.48	3.64	3.87	3.43		4.07	3.56	3.51	3.65	3.67	3.39		3.45
	8	3.94	3.76	3.15	3.30	3.08	3.52	3.34	3.52	3.63	3.79	3.31		4.06	3.48	3.45	3.56	3.50	3.33		3.34
Mid season	Fertile	4.44	4.15	3.73	3.54	3.41	3.63	3.49	4.01	3.88	3.74	3.80	4.04	3.62					3.98	3.90	3.60
	Ms	4.47	4.18	3.76	3.57	3.48	3.70	3.63	4.04	3.98	3.77	3.83	4.03	3.64					3.80	3.76	3.68
End season	Fertile	4.04	3.80	3.38	3.36	3.32	3.58	3.49	3.67	3.67	3.82	3.43		3.96	3.40	3.44	3.52	3.68	3.53		3.49
	Ms	4.11	3.83	3.47	3.48	3.47	3.64	3.62	3.68	3.71	3.89	3.46		4.01	3.56	3.53	3.63	3.79	3.56		3.61

Supplementary Material Fig. S6. Coefficients of ordinal regression comparing scores of FNP to their conventional counterparts (model includes four varieties and random errors), mid- and end-season 2018

