

Table S1. Agronomic characterization of the 19 environments of the NENSU for the genotypes evaluated during the 2003-2009 period using the mean for each environment as combination of year, location and sowing date.

Year	Location ^a	Sowing ^b	Sowing date	Emergence date	Harvest date	Grain yield (kg/ha)	Oil yield (kg/ha)	Oil content (%)	Plant height (m)	Emergence to anthesis cycle (days)	Anthesis to harvest cycle (days)	Total cycle (days)
2003	LE	1	01/10/03	18/10/03	16/03/04	2888.5	1408.4	48.8	1.79	52.2	97.8	150.0
2003	YG	1	01/10/03	08/10/03	04/03/04	3108.2	1502.8	48.4	1.66	71.2	76.8	148.0
2003	YG	2	02/12/03	06/12/03	24/03/04	1808.5	835.5	46.2	1.40	53.7	55.3	109.0
2004	YG	1	22/10/04	30/10/04	23/02/05	2114.5	959.6	45.4	1.42	56.6	59.4	116.0
2004	YG	2	17/12/04	22/12/04	25/03/05	2186.0	967.3	44.3	1.31	49.4	43.6	93.0
2005	LE	1	13/10/05	27/10/05	28/02/06	2675.3	1304.0	48.7	1.14	52.3	71.7	124.0
2005	YG	1	11/10/05	18/10/05	16/02/06	1850.7	880.4	47.6	1.76	61.0	60.0	121.0
2005	YG	2	12/12/05	17/12/05	30/03/06	1565.5	626.5	40.0	1.72	50.3	52.7	103.0
2006	LE	1	11/10/06	21/10/06	02/03/07	2345.4	1126.0	48.0	-	56.5	76.3	132.8
2006	YG	1	11/09/06	18/09/06	12/02/07	1727.8	745.5	43.2	1.65	90.2	57.0	147.2
2006	YG	2	28/12/06	02/01/07	13/04/07	1313.1	529.7	40.3	1.51	46.8	54.2	101.0
2007	LE	1	19/10/07	27/10/07	12/03/08	3407.6	1629.5	47.8	1.27	60.3	76.8	137.0
2007	YG	1	31/10/07	06/11/07	11/03/08	3240.4	1559.6	48.1	1.73	57.3	68.8	126.0
2007	YG	2	05/12/07	09/12/07	01/04/08	2898.5	1287.5	44.4	1.85	52.8	61.3	114.0
2008	LE	1	17/10/08	24/10/08	11/03/09	2248.1	949.9	42.3	1.31	60.0	78.0	138.0
2008	YG	2	08/12/08	14/12/08	01/04/09	1736.4	830.6	47.8	1.39	48.0	60.0	108.0
2009	LE	1	28/10/09	28/10/09	11/03/10	2412.0	1161.4	48.2	1.78	68.0	66.0	134.0
2009	YG	1	23/10/09	29/10/09	26/02/10	2219.3	1001.1	45.1	2.13	63.0	57.0	120.0
2009	YG	2	17/12/09	23/12/09	26/03/10	891.9	390.5	43.8	1.27	48.0	45.0	93.0

^a LE= La Estanzuela; YG= Young. ^b1=Early sowing date; 2= Late sowing date.