

Table S1. Cultivars number and name, region and village of origin, rainfall (mm/10 years), and potential yield (PY; tons/ha) of Chadian dry-season sorghum sown early (S1) and late (S2) at the Youé research farms, Chad, in 2013 and 2014.

Cv #	Region	Village	Name	Rainfall [†]	2013 Potential Yield (tons/ha)			2014 Potential Yield (tons/ha)		
					PY-S1	PY-S2	average	PY-S1	PY-S2	average
1	TJ	Doumouguo	Maïdekomi	1081	0.68	0.40	0.54	0.32	0.38	0.35
2	TJ	Doumouguo	Farine Kouamgue	1081	1.28	1.02	1.15	1.26	0.70	0.98
3	TJ	Doumouguo	Wakba	1081	0.90	0.98	0.94	0.82	0.62	0.72
4	TJ	Doumouguo	[‡] Farine	1081	1.40	1.45	1.43	1.68	0.90	1.29
5	TJ	Doumouguo	Beurdague	1081	1.08	0.68	0.88	0.54	0.44	0.49
6	TJ	Doumouguo	Bouagué	1081	0.85	0.70	0.78	0.75	0.52	0.64
8	TJ	Doumouguo	Toumon guessiri	1081	0.75	0.72	0.74	0.68	0.40	0.54
9	TJ	Tchaguine	Farine (gournagourna)	1081	0.68	0.70	0.69	0.56	0.36	0.46
10	TJ	Tchaguine	Gogoum jaune	1081	0.38	1.24	0.81	1.43	0.88	1.15
11	TJ	Tchaguine	Bagouwaye élété	1081	0.80	0.76	0.78	0.62	0.48	0.55
12	TJ	Tchaguine	Toukom -Toumon)	1081	1.13	0.66	0.89	1.04	0.62	0.83

13	TJ	Tchaguine	Secheresse	1081	0.73	0.86	0.79	0.68	0.64	0.66
14	TJ	Tchaguine	Toumon (Toukom)	1081	0.88	0.74	0.81	0.46	0.42	0.44
15	TJ	Tchaguine	Dormi rouge	1081	0.65	0.80	0.73	0.46	0.43	0.44
16	TJ	Tchaguine	Ψ Gogmi (red flour)	1081	1.58	0.86	1.22	1.66	0.68	1.17
17	TJ	Tchaguine	Farine blanc	1081	0.95	0.72	0.84	0.60	0.68	0.64
18	TJ	Tchaguine	Secheresse blanc	1081	0.75	0.74	0.75	0.64	0.70	0.67
19	TJ	Tchaguine	Ψ Gogoumi(whiteflour)	1081	1.40	1.22	1.31	1.52	0.52	1.02
20	TJ	Tchaguine	Bagouwaye	1081	0.90	0.34	0.62	0.74	0.12	0.43
21	TJ	Tchaguine	Heda dallatcho	1081	1.00	0.76	0.88	0.53	0.52	0.52
22	TJ	Tchaguine	Dormi	1081	0.78	0.94	0.86	0.90	0.64	0.77
23	MKE	Goulmourévé	Dinglenga	967	0.75	0.82	0.79	0.88	0.88	0.88
24	MKE	Goulmourévé	Tchokowawana	967	1.13	0.88	1.00	1.20	0.68	0.94
25	MKE	Goulmourévé	Safrana Madawaïna	967	0.73	0.78	0.75	0.86	0.40	0.63
26	MKE	Goulmourévé	Bourbourina	967	0.70	0.94	0.82	1.08	0.92	1.00
27	MKE	Goulmourévé	Bourbourina 2	967	0.63	0.90	0.76	0.58	0.62	0.60
28	MKE	Goulmourévé	Medjeriana	967	0.68	0.74	0.71	0.70	0.64	0.67

29	MKE	Goulmourévé	Ndjamena 2	967	0.75	0.80	0.78	0.53	0.52	0.52
30	MKE	Goulmourévé	Safradjou gomna	967	1.35	0.76	1.06	1.04	0.80	0.92
31	MKE	Goulmourévé	Djogomna	967	1.00	1.22	1.11	0.92	1.00	0.96
32	MKE	Goulmourévé	Ndjamena	967	0.75	0.76	0.76	0.72	0.64	0.68
33	MKE	Youé-ferme	Babou rouge	892	1.00	0.62	0.81	0.80	0.58	0.69
34	MKE	Youé-ferme	Mindeurie	892	0.63	0.70	0.66	0.78	0.60	0.69
35	MKE	Youé-ferme	Babou blanc	892	0.90	0.82	0.86	0.56	0.88	0.72
36	MKE	Youé-ferme	^ψ Glinding	892	1.50	0.92	1.21	1.48	0.86	1.17
37	MKE	Youé-ferme	Tchorolalé	892	0.85	1.04	0.95	1.04	0.94	0.99
38	MKE	Youé-ferme	Donglon	892	1.35	0.72	1.04	0.94	0.80	0.87
39	MKE	Youé-ferme	^ψ Donglon rouge	892	1.58	0.80	1.19	1.38	0.62	1.00
40	MKE	Youé-ferme	Manbalam	892	1.03	0.96	0.99	0.76	0.82	0.79
41	MKW	Margalao	Vounging a 2 grains	1118	1.25	0.84	1.05	0.56	1.02	0.79
42	MKW	Margalao	Sorgho	1118	0.93	0.92	0.92	0.74	0.98	0.86
43	MKW	Margalao	Donglo Bando	1118	1.35	1.32	1.34	0.62	0.98	0.80
44	MKW	Margalao	^ψ Vounging Membou	1118	1.15	0.88	1.02	1.20	1.04	1.12

45	MKW	Margalao	Bambou mbou	1118	0.70	0.84	0.77	0.98	0.70	0.84
47	MKW	Margalao	Sorgho (sans nom)	1118	1.40	1.10	1.25	0.88	0.94	0.91
48	MKW	Margalao	Zabili	1118	1.53	1.50	1.51	1.06	0.88	0.97
51	MKW	Biparé	[‡] Dalassi	1011	1.08	0.98	1.03	1.36	0.98	1.17
53	MKW	Biparé	Maï Mamou	1011	0.40	0.15	0.28	0.52	0.46	0.49
55	MKW	Biparé	Naparo	1011	0.63	0.62	0.62	0.74	0.36	0.55
Min. value					0.28	0.15	0.21	0.32	0.12	0.22
Max. value					1.58	1.50	1.54	1.68	1.12	1.40
<i>Mean</i>					<i>0.94</i>	<i>0.83</i>	<i>0.88</i>	<i>0.86</i>	<i>0.69</i>	<i>0.78</i>
<i>CV</i>					<i>33.95</i>	<i>30.20</i>	<i>32.08</i>	<i>38.57</i>	<i>32.24</i>	<i>35.40</i>

[‡]Annual rainfall over 10 consecutive years. [‡]Ecotypes with potentials yields (PY) greater than regional average (1.0 ton/ha at 14% moisture content), irrespective of year and sowing date (S1; early & S2; late).