



Supplementary Table 1: The response of wheat genotypes for yellow rust at three locations Meraro, Bekoji and Kulumsa in 2018 and 2019.

S.No.	Wheat Varieties	2018						2019					
		Meraro		Bekoji		Kulumsa		Meraro		Bekoji		Kulumsa	
		TRS	CI	TRS	CI	TRS	CI	TRS	CI	TRS	CI	TRS	CI
1	Laketch	60S	60	60S	60	80S	80	90S	90	80S	80	80S	80
2	Kenya Nyangumi	10MS	8	10MS	8	5MR	2	30MS	24	30S	30	TMR	0.8
3	Kenya Leopard	10MR	4	5MR	2	5MR	2	20MS	16	50S	50	10MR	4
4	Africa Mayo	30MS	24	5MR	2	TR	0.4	15MR	6	10S	10	5MR	2
5	Trophy	20MS	16	10MS	8	10MS	8	40MS	32	70S	70	10MR	4
6	Bounty	-	-	-	-	-	-	40S	40	50S	50	10MS	8
7	Bonny	10MR	4	5MR	2	0	0	20MS	16	40S	40	TMR	0.8
8	Frontach	30MS	24	20MS	16	30MS	24	60S	60	50S	50	40S	40
9	Kenya Kudu	40MSS	36	20S	20	40S	40	60S	60	60S	60	50S	50
10	Enkoy	10MR	4	TMR	0.8	TMS	1.6	70S	70	70S	70	60S	60
11	K6290 Bulk	40S	40	40S	40	20MS	16	70S	70	80S	80	70S	70
12	K6295-4A	40S	40	40S	40	50S	50	80S	80	60S	60	60S	60
13	ET13A2	40S	40	20S	20	40S	40	70S	70	60S	60	50S	50
14	Pavon 76	40S	40	30S	30	40S	40	30S	30	40S	40	30S	30
15	Dashen	5MR	2	0	0	15S	15	15MR	6	10MS	8	TMS	1.6
16	Mitike	70S	70	20S	20	40S	40	70S	70	60S	60	50S	50

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17	Galema	30S	30	5MR	2	10MR	4	40S	40	40S	40	30MS/S	24
18	Kubsa	60S	60	50S	50	60S	60	80S	80	80S	80	80S	80
19	Abola	50S	50	30S	30	50S	50	80S	80	80S	80	80S	80
20	ETBW6809	5MR	2	0	0	TMR	0.8	20MR	8	10MS	8	TMR	0.8
21	Tusie	40S	40	30S	30	10MR	4	20MS	16	20S	20	15MS	12
22	Katar	60S	60	10MR	4	60S	60	40S	40	70S	70	50S	50
23	Shina	20MS	16	30S	30	20MR	16	TMR	0.8	5MSMR	4.5	TMS	1.6
24	Tura	20MS	16	5MR	2	10MR	4	30MSS	27	60S	60	40S	40
25	Hawi	40S	40	10MR	4	30S	30	80S	80	80S	80	70S	70
26	Madda Walabu	30S	30	20MS	16	30MS	30	80S	80	80S	80	80S	80
27	Simba	20S	20	10MR	4	40S	40	10MR	4	TMS	1.6	5MR	2
28	Sofumar	80S	80	60S	60	70S	70	90S	90	80S	80	80S	80
29	Wetera	40S	40	40S	40	5MR	2	TMS	1.6	10MS	8	0	0
30	Dodota	40S	40	20MS	16	5MS	4	90S	90	0	8	30S	30
31	Dure	0	0	0	0	0	0	0	0	0	8	TMR	0.8
32	KBG-01	80S	80	30S	30	30MS	24	90S	90	85S	85	60S	60
33	Sirbo	30S	30	40S	40	20S	20	20MS	16	20S	20	30SMS	27
34	Bobicho	50S	50	30S	30	50S	50	40S	40	50S	50	60S	60
35	Tossa	50S	50	30S	30	20MS	16	90S	90	80S	80	60S	60
36	Meraro	30S	30	5MR	2	10MR	4	40S	40	40S	40	10MS	8
37	Senkegna	10MSS	9	10MR	4	0	0	10MR	4	10MR	4	0	0
38	Tay	10MR	4	0	0	0	0	TMR	0.8	TS	0.2	0	0
39	Sulla	80S	80	50S	50	60S	60	80S	80	80S	80	80S	80
40	Alidoro	30MSS	27	5MR	2	10MSMR	6	40MSS	36	40S	40	20SMS	18
41	Millennium	10MSS	9	0	0	10S	10	80S	80	TMS	1.6	TMR	0.8
42	Dinknesh	5MR	2	0	0	TS	2	10MR	4	0	0	0	0
43	Menze	60S	60	30S	30	50S	50	80S	80	60S	60	60S	60
44	Kulkulu	80S	80	30S	30	50S	50	90S	90	70S	70	80S	80
45	Bolo	50S	50	10MR	4	50S	50	90S	90	60S	60	60S	60
46	Danda'a	20MS	20	5MR	2	20MS	16	60S	60	60S	60	20MS	16
47	Kakaba	40S	40	20MS	16	10MR	4	70S	70	60S	60	40S	40
48	Hoggana	40S	40	20MS	16	40S	40	50S	50	60S	60	10MR	4

49	Shorima	30MSS	27	0	0	5MSMR	3	60S	60	40S	40	10MR	4
50	Hulukka	30MSS	27	10MR	4	20MS	16	70S	70	40S	40	10MR	4
51	Gambo	30MSS	27	TR	0.4	20MS	16	60S	60	50S	50	30S	30
52	Galil	10MS	8	0	0	20MS	16	50S	50	50S	50	50S	50
53	Jafersson	20MSS	18	10MS	8	10S	10	60S	60	40S	40	30S	30
54	Tsehay	5MR	2	TMR	0.8	5MR	2	60S	60	20MR	8	TMR	0.8
55	Arendeto	10MS	8	10MR	4	0	0	TMR	0.8	TMS	1.6	15MR	6
56	Hitossa	2MR	0.8	0	0	0	0	TMR	0.8	0	0	TMS	1.6
57	Werer	5MR	2	0	0	TMR	0.4	TMR	0.8	TMS	1.6	5MS	4
58	Denbi	0	0	0	0	TS	2	TMR	0.8	TMS	1.6	TMR	0.8
59	Selam	30MSS	27	10MR	4	5MR	2	60S	60	40S	40	10MS	8
60	Megenagna	10MR	4	10MR	4	5MR	2	40S	40	20MS	16	10MR	4
61	Mettaya	0	0	TR	0.4	0	0	TMR	0.8	TMR	0.8	TMR	0.8
62	Ejersaa	2MR	0.8	5MR	2	TMS	1.6	TMR	0.8	TMR	0.8	0	0
63	Flakit	0	0	TMR	0.4	5MR	2	40S	40	TS	2	60S	60
64	Malefia	50S	50	50S	50	30S	30	20MR	16	20MS	16	80S	80
65	Mossobo	30MSS	27	10MR	4	5MSMR	3	40S	40	20S	20	60S	60
66	Toltu	2R	0.4	0	0	TMR	0.8	20MR	16	0	0	20MS	16
67	Obssa	0	0	0	0	TMR	0.8	20MR	16	0	0	40S	40
68	Lellisso	30MSS	27	TMR	0.4	5MS	4	50S	50	60S	60	10MR	4
69	Tate	2R	0.4	TMR	0.4	5S	5	40S	40	0	0	10MR	4
70	Bakalcha	20MS	16	TMR	0.4	5MR	2	50S	50	10MS	8	10MR	4
71	Oda	20MS	16	5MR	2	10MR	4	40S	40	10MS	8	30S	30
72	Kokate	10MR	4	10MR	4	5MR	2	60S	60	50S	50	50S	50
73	Local Red	50S	50	TMR	0.4	20S	20	40S	40	10MS	8	TMR	0.8
74	HAR 727	2R	0.4	TMR	0.4	0	0	0	0	TMS	1.6	15MR	6
75	HAR 723	40MSS	36	40S	40	40S	40	60S	60	80S	80	TMS	1.6
76	HAR 934	2R	0.4	0	0	5S	5	10MR	4	TMS	1.6	5MS	4
77	HAR 1018	10MR	4	0	0	TMS	1.6	20MR	8	5MS	4	TMR	1.6
78	HAR 820	10MR	4	10MR	4	0	0	30MSS	27	30S	30	10MS	8
79	HAR 1407	5MR	2	0	0	TMR	0.8	20MR	8	10MS	8	10MR	4
80	HAR 1331	10MR	4	20MS	16	5MR	2	40S	40	60S	60	10MR	4
81	HAR 719	30MS	24	30S	30	20MR	16	90S	90	70S	70	25S	25

82	Hidassie	20MS	16	20MS	16	5S	5	60S	60	40S	40	20MR	8
83	Ogolcho	30MS	24	10MR	4	5MR	2	70S	70	40S	40	10MR	4
84	ETBW5800	30MS	24	5MR	2	TMS	1.6	50S	50	30S	30	TMR	1.6
85	ETBW5879	10MR	4	TMS	1.6	5MR	2	70S	70	40S	40	10MR	4
86	ETBW5890	5MR	2	0	0	0	0	60S	60	40S	40	TMR	1.6
87	ETBW6093	50S	50	30S	30	40S	40	90S	90	70S	70	40S	40
88	ETBW6094	60S	60	20S	20	50S	50	90S	90	70S	70	50S	50
89	ETBW6098	80S	80	40S	40	40S	40	90S	90	70S	70	60S	60
90	Kingbird	30MS	24	30S	30	15MSMR	9	70S	70	60S	60	20S	20
91	Mandoyu	2R	0.4	TMR	0.8	5MS	4	30MSS	27	40S	40	5MR	0.8
92	Sanate	2R	0.4	0	0	TMS	1.6	TMS	1.6	0	0	TMR	0.8
93	Gassay	10MR	4	0	0	0	0	20MS	16	40S	40	10MR	4
94	ETBW6647*	60S	60	20S	20	40S	40	90S	90	70S	70	40S	40
95	ETBW6496*	20MR	8	0	0	5MS	4	90S	90	70S	70	50S	50
96	ETBW6696*	10MR	4	0	0	5S	5	30MSS	27	40S	40	5MR	2
97	ETBW7698*	10MR	4	0	0	0	0	20MR	8	30S	30	TMR	1.6
98	ETBW6939*	40MSS	36	5MR	2	5S	5	80S	80	60S	60	50S	50
99	ETBW7255*	50S	50	10MR	4	40S	40	70S	70	70S	70	40S	40
100	ETBW6861* Lemu	10MR	4	TMS	1.6	10MS	8	60S	60	50S	50	10MR	4
101	ICARDA ELITE 107	20MSMR	12	TMR	0.8	5S	5	70S	70	50S	50	10MR	4
102	AGUILAL/3/ PYN	40MSS	36	TMR	0.4	5MS	4	60S	60	50S	50	10MR	4
103	Israel	25MS	20	40S	40	30MS	24	90S	90	80S	80	40S	40
104	Bonde	40MSS	36	30S	30	50S	50	90S	90	80S	80	50S	50
105	Kvz/7c	40MSS	36	40S	40	40S	40	90S	90	70S	70	60S	60
106	FH4-2-11	0	0	10S	10	5MR	2	TMR	0.8	5MS	4	10S	10
107	Cocorit 71	30MSS	27	TR	0.8	20MS	16	60S	60	50S	50	10MR	4
108	Gerado	50S	50	10MS	8	10S	10	70S	70	50S	50	5MR	2
109	LD 357	30MSS	27	40S	40	30S	30	90S	90	60S	60	10MR	4
110	Bichena	10MR	4	5MR	2	5MR	2	80S	80	50S	50	10MR	4

111	ETBW6130 WANE	10MR	4	0	0	TMR	0.8	40S	40	30S	30	TR	0.4
112	ETBW6861 LEMU	5MR	2	TR	0.4	10MS	8	70S	70	40S	40	20MR	8
113	Munal	40S	40	30S	30	40S	40	90S	90	80S	80	50S	50
114	Dereselign	60S	60	30S	30	30S	30	90S	90	80S	80	70S	70
115	Batu	30MS	24	20S	20	30S	30	30MSS	27	40S	40	30S	30
116	Digalu							90S	90	30S	30	60S	60
117	Kingbird							70S	70	40S	40	20MR	8
118	Wane							50S	50	10S	10	10MS	8
119	Daka							50S	50	20MS	16	15MS	12
120	Morocco	60S	60	90S	90	90S	90	90S	90	70S	70	90S	90
121	PBW343	50S	50	50S	50	50S	50	70S	70	40S	40	50S	50