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APPENDIX

Appendix Table 1: Mean agronomic performance of 12 bread wheat varieties tested at seven mid to highland areas of Oromia during 2021 off season under Irrigation.

	Genotypes	DH	DM	PH(cm)	SL	GY(ton/ha)
1	Adami Tulu	57.12 ^c	107.62 ^c	74.44 ^d	8.70 ^c	4.12 ^c
2	Arjo	76.91 ^a	124.41 ^b	79.05 ^{bcd}	8.4 ^c	1.96 ^e
3	Dodola	63.20 ^c	112.54 ^d	80.95 ^{bc}	5.75 ^e	2.35 ^d
4	Gechi	64.12 ^c	115.66 ^c	84.08 ^b	7.57 ^d	4.48 ^b
5	Harato	57.37 ^e	123.83 ^b	97.96 ^a	9.60 ^b	4.95 ^a
6	Lume	59.58 ^d	108.66 ^{bc}	77.33 ^{cd}	9.4 ^b	4.67 ^{ab}
7	Shambu	73.87 ^b	153.50 ^a	96.12 ^a	10.41 ^a	2.37 ^d
	Mean	64.60	120.89	84.28	8.55	3.56
	LSD(0.05)	2.95	3.18	8.82	0.77	0.58

Where, **LSD**: Least significant Difference, **DH**: Days to Heading, **DM**: Days to Maturity, **PH**: Plant height in cm, **SL**: Spike length (cm) and **GY**: Grain yield in ton/ha

Appendix Table 2: Combined mean values of 12 bread wheat varieties for grain yield and other agronomic characters at seven locations during 2021 off season under Irrigation

No	Genotypes	DH	DM	PH(cm)	SL	GY(ton/ha)
1	Balcha	65.76 ^{bcd}	119.78 ^{cde}	87.20 ^a	8.25 ^{cdef}	3.79 ^{bc}
2	Deka	62.35 ^{efgh}	121.85 ^{bc}	81.84 ^{ab}	8.27 ^{cdef}	3.55 ^{cde}
3	Dendea	66.42 ^{abc}	122.28 ^b	85.55 ^a	8.65 ^{bcd}	3.28 ^{de}
4	ETBW 9554	64.57 ^{cde}	121.35 ^{bcd}	84.20 ^a	8.76 ^{bcd}	3.67 ^{cd}
5	Hibist	61.85 ^{gh}	119.21 ^{de}	82.38 ^a	8.05 ^{ef}	4.38 ^a
6	Kakaba	62.21 ^{fgh}	118.00 ^c	84.34 ^a	8.20 ^{def}	3.29 ^{de}
7	Liben	66.92 ^{ab}	119.07 ^{de}	82.05 ^{ab}	8.39 ^{cde}	3.39 ^{cde}
8	Obora	68.28 ^a	125.71 ^a	85.54 ^a	9.20 ^{ab}	3.22 ^e
9	Ogolcho	63.92 ^{defg}	121.07 ^{bcd}	87.12 ^a	9.58 ^a	3.33 ^{de}

10	Shorima	67.42 ^{ab}	121.00 ^{bcd}	86.77 ^a	8.64 ^{bcd}	3.54 ^{dce}
11	Sofumer	64.21 ^{cdef}	121.6 ^{4bc}	87.71 ^a	8.80 ^{bc}	3.16 ^e
12	Wane	61.25 ^h	119.71 ^{cde}	75.62 ^b	7.75 ^f	4.11 ^{ab}
	Mean	64.60	120.89	84.28	8.55	3.56
	CV (%)	4.56	2.63	10.46	9.09	16.48
	LSD(0.05)	2.95	3.18	8.82	0.77	0.58

Where, **DH**: Days to Heading, **DM**: Days to Maturity, **PH**: Plant height in cm, **SL**: Spike length (cm) and **GY**: Grain yield in ton/ha, **LSD** : Least significant difference, **CV**: Coefficient variation

Appendix Table 3: Parameters Rank of genotypes

No	Genotypes	Yi	CVi	bi	s2di	Wi2	Di	StabVar	YSi	Si(1)	Si(2)	Si(3)	Si(6)	TOP	NPi(1)	NPi(2)	NPi(3)	NPi(4)
1	Balcha	3	3	7	7	6	7	6	2.5	3	3	3	4	8	4.5	5.5	6	6
2	Deka	5	5	8	12	12	12	12	9	11	11	12	9	4.5	9.5	7	8	8
3	Dendea	10	9	2	2	1	2	1	7	1	1	1	2	11.5	1	1	1	1
4	ETBW 9554	4	11	11	6	8	6	8	4	9	9	11	10.5	3	9.5	10	10	9
5	Hibist	1	7	9	9	9	9	9	2.5	12	12	8	12	1	12	12	12	12
6	Kakaba	9	10	3	5	4	5	4	6	5	6	4	3	8	2.5	2	2	2
7	Liben	7	4	4	4	5	4	5	5	4	4	5	5	11.5	4.5	5.5	4	4
8	Obora	11	1	10	1	3	1	3	8	6	5	2	1	8	6	3	3	3
9	Ogolcho	8	12	12	10	11	10	11	11	10	10	10	8	8	11	8	7	7
10	Shorima	6	6	6	11	10	11	10	10	7.5	7	9	7	4.5	7	9	9	10
11	Sofumer	12	8	5	8	7	8	7	12	7.5	8	6	6	8	8	4	5	5
12	Wane	2	2	1	3	2	3	2	1	2	2	7	10.5	2	2.5	11	11	11

