



18WCPP Qualification

FINAL QUALIFICATION REPORT FOR TWCA 18WCPPNN

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Committee

Research Review Committee is comprised of the following:

Role	Name	Voting status
Chair	Cale Bigelow	Y
Member	John Stier	Y
Member	Matteo Serena	Y
Data Evaluation Statistical Analyst	Tyler Carr	N
Program Admin	Jack Karlin	N

Requirements

- Only cultivars that match (within +/- 10%) or exceed the performance of TWCA Drought tolerance standards at all trial locations earn TWCA Qualifications.
- Cultivars meet or exceed the CPF threshold overall for the trials
- Cultivars meet or exceed the CPF threshold for at least two years at each location

Locations

- 18WCPPnn is a single species evaluation of Kentucky Bluegrass (*poa pratensis*) consisting of
 - __10__ locations

18WCPP	City
02	Albany OR
03	Purdue
04	Pitman (LM)
05	U Ark
07	Guelph
09	Hubbard (LM)
12	Rolesville
14	Riverside (chronic)
16	Albany (chronic)
22	Blacksburg

- Of the locations only the __6__ conducting standard maintenance acute stress trialing are considered for TWCA Qualification
 - Rolesville had a failure of trial and was excluded
 - Guelph experienced a confounding factor at green-up in 2020 and was excluded
 - Blacksburg experienced a confounding factor at green up in 2021 and was excluded
- In cases where more than one drydown was performed the RRC opted, based on the pattern of performance to consider the first and third runs a set and the 2nd and 4th the same.

Cultivars

Ineligible Cultivars

- Of the 59 entered cultivars (including standards) 15 entries are ineligible for qualification by TWCA:

Cultivar	Commercial Name	Sponsor Company	OBJ
BAR PP 112916	BARSAHARA	BAR	6
BARRISTER	BARRISTER	BAR	19
BARSERATI	BARSERATI	BAR	35
BARDUKE	BARDUKE	BAR	46
BARVETTE HGT	BARVETTE HGT	BAR	48
BARRARI	BARRARI	BAR	54
NAI-14-178		CRS	11
NAI-13-132		CRS	33
NAI-13-9		CRS	37
RUBICON	RUBICON	CS	4
BLUE DEVIL	BLUE DEVIL	CS	17
RUBIX	RUBIX	CS	29
DAUNTLESS	DAUNTLESS	CS	55
CORSAIR	CORSAIR	CS	57
NAI-13-84		PSM	59

The above listed cultivars are ineligible for qualification by lapse of membership. Ineligible cultivars are evaluated during the data evaluation, their overall performance noted in a separate, in-house, confidential document.

Eligible Cultivars

- Of the 44 eligible entries 10 qualified for the TWCA Seal.
 - 10—Entries Qualified unanimously having clearly demonstrated drought tolerance meeting or exceeding the standard at all locations

NAME	PLOT #
AKB 3582	14
K11-118	20
MALLARD	21
K17-189AD	28
K17-196	31
K15-163A	34
T14-35	39
K13-141	49
BEDAZZLED	50
T17-47	51

Cultivars Requiring Further Review

- Five cultivars required further review.
 - 11-7: Excluded by virtue of failure to meet the threshold for qualification consistently at 1/3 locations 2/3 the time
 - AKB 3208: Excluded by virtue of failing to reach the threshold for qual consistently at 2/3 locations and failing to make the qualification threshold at one location overall
 - K12-129: Excluded by virtue of failing to meet the qualification threshold at 1/3 locations 1/2 of the time
 - K15-173: Excluded by virtue of failing to reach the threshold for qual consistently at 1/3 locations and failing to make the qualification threshold at one location overall
 - K17-188AD: Excluded by virtue of failure to meet the threshold for qualification consistently at 1/3 locations 2/3 the time

CHECK	NAME	ENTRY	PLOT #	ACUTE				ACUTE					CPF	
				#3 West Lafayette				#5 Fayetteville						
				19	20	21	AVG	19	20	20.2	21	21.2		AVG
	K17-188AD	15	15	1.14	1.15	0.97	1.08	-	0.95	1.07	0.99	1.00	1.00	1.00
	K15-173	16	16	1.21	1.11	1.00	1.11	-	0.98	1.00	1.01	0.98	0.99	1.01
	11-7	45	45	1.03	1.11	1.12	1.08	-	1.05	1.13	1.01	1.09	1.07	1.02
	K12-129	9	9	0.93	0.99	0.97	0.96	-	0.92	1.00	1.13	1.18	1.06	1.03
	AKB 3208	7	7	1.08	1.11	1.00	1.06	-	1.11	1.11	1.08	1.20	1.13	1.07

Figure 1: Cultivars further reviewed

Public Data Table

CHECK	NAME	PLOT #	ACUTE				ACUTE				ACUTE					CPF Overall Avg
			#2 Albany				#3 West Lafayette				#5 Fayetteville					
19	20	21	AVG	19	20	21	AVG	19	20	20.2	21	21.2	AVG			
Qualified	AKB 3582	14	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	K11-118	20	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified/D-Tol	MALLARD	21	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	K17-189AD	28	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	K17-196	31	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	K15-163A	34	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	T14-35	39	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	K13-141	49	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified/D-Tol	BEDAZZLED	50	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
Qualified	T17-47	51	1.10	1.10	-	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	
	TX8-56	1	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	
Known	DIVA	2	1.23	1.03	-	1.13	0.93	0.89	1.17	1.00	-	1.08	1.20	1.08	1.00	
	K15-169	3	1.06	1.06	-	1.06	1.08	1.31	1.08	1.16	-	1.17	1.13	1.08	1.07	
	RUBICON	4	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB3201	5	1.14	1.08	-	1.11	1.08	1.11	0.85	1.01	-	1.25	1.26	1.10	1.26	
	BAR PP 112916	6	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB 3208	7	1.01	1.01	-	1.01	1.08	1.11	1.00	1.06	-	1.11	1.11	1.08	1.20	
	AKB3348	8	1.10	1.12	-	1.11	1.71	1.22	0.88	1.27	-	1.23	1.11	1.10	1.18	
	K12-129	9	1.08	1.04	-	1.06	0.93	0.99	0.97	0.96	-	0.92	1.00	1.13	1.18	
	K10-110	10	1.01	1.04	-	1.03	1.08	1.01	0.97	1.02	-	1.23	1.05	1.10	1.23	
	NAI-14-178	11	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB 1925	12	0.95	1.08	-	1.01	1.71	1.22	0.93	1.29	-	1.19	1.16	1.13	1.16	
	AKB 3456	13	1.16	1.21	-	1.19	1.21	1.04	1.17	1.14	-	1.08	1.18	1.08	1.31	
	K17-188AD	15	0.89	0.92	-	0.90	1.14	1.15	0.97	1.08	-	0.95	1.07	0.99	1.00	
	K15-173	16	0.92	0.96	-	0.94	1.21	1.11	1.00	1.11	-	0.98	1.00	1.01	0.98	
	BLUE DEVIL	17	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB 1351	18	0.96	1.10	-	1.03	1.37	1.27	1.00	1.21	-	1.07	1.26	1.13	1.07	
	BARRISTER	19	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	K15-158	22	0.93	1.06	-	1.00	1.28	1.08	1.12	1.16	-	0.99	1.31	1.06	1.31	
	K16-178	23	0.99	1.12	-	1.06	1.14	1.15	1.08	1.12	-	0.95	1.16	1.06	1.16	
D-Sus	SNAP	24	1.51	1.38	-	1.45	1.37	1.01	1.08	1.15	-	1.56	1.51	1.22	1.34	
D-Sus	GERONIMO	25	1.23	1.06	-	1.15	1.08	1.01	0.88	0.99	-	1.23	1.28	1.13	1.44	
	K13-137	26	0.89	0.99	-	0.94	1.37	1.27	1.22	1.28	-	0.91	0.94	1.03	1.00	
	BEWITCHED	27	1.10	1.08	-	1.09	1.08	1.01	1.00	1.03	-	1.11	1.16	1.10	1.28	
	RUBIX	29	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	K8-76NO	30	1.23	1.12	-	1.18	0.93	0.89	0.97	0.93	-	1.20	1.28	1.10	1.37	
	K15-160	32	0.99	0.98	-	0.98	1.21	0.99	1.22	1.14	-	1.17	1.31	1.08	1.44	
	NAI-13-132	33	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	BARSERATI	35	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	T14-37	36	1.16	1.10	-	1.13	1.28	1.18	0.97	1.14	-	1.02	1.05	1.08	1.16	
	NAI-13-9	37	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB 3542	38	1.06	1.14	-	1.10	1.08	1.04	1.04	1.05	-	1.13	1.16	1.10	1.20	
	MAZAMA	40	0.96	0.96	-	0.96	0.98	1.18	1.17	1.11	-	0.95	1.05	0.97	1.13	
Known	RIDGELINE	41	1.06	1.04	-	1.05	1.46	1.11	1.04	1.20	-	1.08	1.11	1.06	1.34	
	AKB 3241	42	1.08	1.01	-	1.04	1.08	1.08	1.22	1.12	-	0.95	1.09	1.10	1.11	
	K15-177	43	0.85	0.84	-	0.85	1.28	1.48	1.12	1.29	-	0.90	0.73	0.97	0.97	
	K17-190AD	44	0.90	0.90	-	0.90	1.37	1.27	1.22	1.28	-	0.99	0.98	1.03	1.23	
	11-7	45	0.86	0.92	-	0.89	1.03	1.11	1.12	1.08	-	1.05	1.13	1.01	1.09	
	BARDUKE	46	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	KH 3492	47	1.21	1.12	-	1.17	1.14	1.18	0.93	1.09	-	1.05	1.04	1.10	1.23	
	BARVETTE HGT	48	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	K15-168	52	0.98	0.92	-	0.95	1.46	1.27	0.97	1.23	-	0.95	1.02	1.06	1.16	
	ENDURANCE	53	1.16	1.12	-	1.14	1.21	0.99	1.12	1.10	-	1.11	1.28	1.08	1.37	
	BARRARI	54	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	DAUNTLESS	55	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	AKB 2404	56	0.98	1.12	-	1.05	1.37	1.01	0.90	1.09	-	1.04	1.04	1.16	1.34	
	CORSAIR	57	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
	TUMALO	58	1.03	1.04	-	1.03	1.46	1.11	1.08	1.22	-	1.05	1.18	1.06	1.23	
	NAI-13-84	59	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED	-	REDACTED	REDACTED	REDACTED	REDACTED	
Inches ET lost by the standard white still retaining 50% green cover			6.05	5.95	0	6	2.05	3.55	2.8	2.8	0	7.35	5.9	4.75	5.9	5.975