

**WHEAT OBJECTIVE DESCRIPTION**

VARIETY NAME: BOBCAT

**2.4 Pubescence on blades of lower leaves (#)**

		CV	R1	R2	R3	R4
glabrous	1	1				
slightly pubescent	4					
strongly pubescent	7					

**2.5 Colour of lower leaf blade**

light green	1	2				
medium green	2					
dark green	3					
blue green	4					

**2.6 Tillering capacity (at low densities)**

low	1	3				
high	9					

**3.0 PLANT CHARACTERISTICS (at booting stage)**

**3.1 Flag leaf: colour**

light green	1	2				
medium green	2					
dark green	3					
blue green	4					

**3.2 Flag leaf: pubescence of blade (#)**

glabrous	1	1				
slightly pubescent	4					
strongly pubescent	7					

**3.3 Flag leaf: waxiness of lower side of blade**

absent	1	9				
slight	5					
pronounced	9					

**3.4 Flag leaf sheath: waxy bloom (#)**

absent	1	9				
slight	5					
pronounced	9					

**3.5 Flag leaf sheath: pubescence (#)**

glabrous	1	1				
slightly pubescent	4					
strongly pubescent	7					

**3.6 Flag leaf: width**

narrow	3	5				
medium	5					
wide	7					

**3.7 Flag leaf: length**

short	3	5				
medium	5					
long	7					

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**VARIETY NAME:** \_\_\_\_\_

**4.7 Straw: anthocyanin colouration at maturity**  
(#)

		CV	R1	R2	R3	R4
absent	1	1				
medium	4					
strong	7					

**4.8 Straw: pith in cross-section (at middle of the internode below the neck)**  
(#) (+)

hollow	1	5				
thick walled	5					
solid	9					

**4.9 Stem colour at maturity**  
(#)

white	1	2				
yellow	2					
brown	3					
purple	4					
other (specify): _____	5					

**5.0 SPIKE CHARACTERISTICS**

**5.1 Spike: shape**  
(#) (+)

tapering	1	1				
oblong	2					
clavate	3					
fusiform	4					
other (specify): _____	5					

**5.2 Spike: attitude (at maturity)**  
(#)

erect (upright to 30°)	1	1				
inclined (30° to 90°)	5					
nodding (>90°)	9					

**5.3 Spike: density**  
(#) (+)

lax	3	5-7				
medium	5					
dense	7					

**5.4 Spike: length (excluding awns - use first tiller)**  
(#)

short	3	5				
medium	5					
long	7					

**5.5 Spike: waxy bloom**

absent	1	7				
slight	4					
pronounced	7					

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**VARIETY NAME:** \_\_\_\_\_

**6.4 Lower glume: shape of shoulder  
(#) (+)**

		CV	R1	R2	R3	R4
wanting	1	2				
oblique	2					
rounded	3					
square	4					
elevated	5					
apiculate	6					

**6.5 Lower glume: shoulder width  
(#) (+)**

narrow	3	3				
medium	5					
wide	7					

**6.6 Lower glume: shape of beak  
(#) (+)**

obtuse	1	2				
acute	2					
acuminate	3					

**6.7 Lower glume: beak length  
(#)**

short	3	3				
medium	5					
long	7					

**6.8 Lower glume: internal imprint  
(+)**

absent	1					
small	3					
medium	5					
large	7					

**6.9 Glume (chaff): colour at maturity  
(#)**

white	1	2				
yellow	2					
light brown	3					
brown	4					
red	5					
purple	6					
other (specify):	7					

**7.0 KERNEL CHARACTERISTICS: (Mature primary kernels from the central one-third of spike - must be consistent with kernel characteristics provided by the Canadian Grain Commission)**

**7.1 Kernel: type  
(#)**

soft white	1	5				
soft red	2					
hard white	3					
hard red	4					
other (specify) Triticale	5					

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**7.11 Shape of germ (embryo)**

(#) (+)		CV	R1	R2	R3	R4
round	1	2				
oval	2	ovate - oval				
other (specify)	3					

**7.12 Size of germ (embryo, observed from dorsal view)**

(#)						
small	3	5				
midsize	5					
large	7					

**7.13 Kernel crease: width**

(#) (+)						
narrow	3	5				
midwide	5					
wide	7					

**7.14 Kernel crease: depth**

(#) (+)						
shallow	1	2				
mid-deep	2					
deep	3					
pitted	4					
other (specify)	5					

**7.15 Phenol reaction of kernel**

(+)						
ivory	1	3-4				
fawn	2					
light brown	3					
brown	4					
black	5					
mixed (specify)	6					

**8.0 AGRONOMIC CHARACTERISTICS**

**8.1 Resistance to shattering**

not tested	0	7				
poor	3					
fair	5					
good	7					

**8.2 Tolerance to drought**

not tested	0	5				
poor	3					
fair	5					
good	7					

**8.3 Winter survival (for winter wheat only)**

poor	3	7				
fair	5					
good	7					

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## 10.0 REACTION TO DISEASE:

0- not tested                      5- tolerant  
 1- resistant                        7- moderately susceptible  
 3- moderately resistant        9- susceptible

		CV	R1	R2	R3	R4
10.1	common root rot, <i>Cochliobolus sativus</i> , <i>Fusarium</i> spp.	5				
10.2	browning root rot: <i>Pythium</i> species	0				
10.3	snow mold: <i>Typhula</i> species, <i>Gerlachia nivalis</i> , <i>Coprinus</i> <i>psychromorbidus</i> , <i>Myriosclerotinia</i> <i>borealis</i>	5				
10.4	take-all root rot: <i>Gaeumannomyces</i> <i>graminis</i> var. <i>tritici</i>	5				
10.5	spot blotch: <i>Cochliobolus sativus</i>	5				
10.6	black point and smudge: <i>Cochliobolus sativus</i> , <i>Alternaria</i> species, <i>Pseudomonas syringae</i> pv. <i>atrofaciens</i>	0				
10.7	tan spot: <i>Pyrenophora tritici-</i> <i>repentis</i>	5				
10.8	Septoria avenae blotch: <i>Septoria avenae</i> f.sp. <i>triticea</i>	5				
10.9	Septoria tritici blotch: <i>Septoria</i> <i>tritici</i>	5				
10.10	Septoria nodorum blotch (glume blotch): <i>Septoria nodorum</i>	5				
10.11	powdery mildew: <i>Erysiphe graminis</i> f. sp. <i>tritici</i>	1				
10.12	Fusarium head blight: <i>Fusarium</i> <i>graminearum</i> , <i>Fusarium</i> species	0				
10.13	Ergot: <i>Claviceps purpurea</i>	5				
10.14	Common bunt: <i>Tilletia caries</i> , <i>Tilletia foetida</i>	1				
10.15	Dwarf bunt: <i>Tilletia controversa</i>	1				
10.16	Loose smut: <i>Ustilago tritici</i>	1				
10.17	Leaf rust: <i>Puccinia recondita</i> (#)	1-3				
10.18	Stem rust: <i>Puccinia graminis</i> f.sp. <i>tritici</i> (#)	1				
10.19	Stripe rust: <i>Puccinia striiformis</i>	0				
10.20	Bacterial blights: <i>Xanthomonas</i> <i>translucens</i> , <i>Pseudomonas syringae</i> , pv. <i>atrofaciens</i>	0				
10.21	Spindle streak mosaic virus	0				
10.22	Wheat streak mosaic virus	0				
10.23	Barley yellow dwarf virus	3				
10.24	Other (specify)					

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VARIETY NAME:

11.0 REACTION TO INSECTS:

- 0- not tested
- 1- resistant
- 3- moderately resistant
- 5- tolerant
- 7- moderately susceptible
- 9- susceptible

		CV	R1	R2	R3	R4
11.1	aphids	0				
11.2	armyworm	0				
11.3	cereal leaf beetle	0				
11.4	grasshopper	0				
11.5	sawfly	0				
11.6	nematode	0				
11.7	other (specify):					

12.0 REACTION TO CHEMICALS

- 0- not tested
- 1- resistant
- 3- moderately resistant
- 5- tolerant
- 7- moderately susceptible
- 9- susceptible

12.1	fungicide(s) (specify chemical(s)):	0				
12.2	insecticide(s) (specify chemical(s)):	0				
12.3	herbicide(s) (specify chemical(s)):	0				
12.4	other (specify chemical(s)):					

13.0 Describe traits of the candidate variety that aid in its identification. (e.g. electrophoresis). Please attach data and the corresponding protocol.

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14.0 (#) Describe any deviant plants, including both off-types and variants observed during seed increase of the candidate variety. The maximum allowable frequency of each variant must be noted for each class of pedigreed seed.

A slight variation in awn length will occur within the variety. Some plants with slightly longer awns will appear but should not occur at levels greater than 2 per 10,000 plants.

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15.0 (#) List the characteristics that are most useful for distinguishing the candidate variety. Refer to the characteristics using objective description key numbers.

4.2 Height - shorter than Pika

5.7 Spike Awedness - very short awnlets

Threshability of this variety is excellent, very similar to wheat.

16.0 Foreign marker genes (check box if appropriate)

- NPT II = kanamycin resistance
- HYG = hygromycin/gentamycin resistance
- herbicide tolerance (please specify \_\_\_\_\_)
- GUS = beta-glucuronidase production
- Other (please specify \_\_\_\_\_)

17.0 Additional comments and characteristics

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(February 09, 1995/m.t.)