

## AC Crystal Canada Prairie Spring Red Wheat

**Breeder:** Dr. Ron Depauw  
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**Strengths:**

- Yielded 39% more than Neepawa in 3 years of High Yield Wheat Cooperative trials
- Higher yield than AC Foremost and AC Karma in 3 years of High Yield Wheat Cooperative trials
- Maturity one day earlier than AC Taber, one day later than AC Foremost
- height similar to AC Taber, 5cm taller than AC Foremost
- Semi-dwarf with strong straw
- Heavier test weight than AC Taber and AC Foremost
- better leaf spot resistance than AC Foremost, similar to AC Taber
- Very good shattering resistance

**Weaknesses:**

- Susceptible to new loose smut race T9, but resistant to other prevalent loose smut races
- Susceptible to fusarium head blight, but has shown tolerance under some conditions
- Sprouting resistance similar to AC Taber and worse than AC Foremost

**Gluten Strength of AC Crystal**

- AC Crystal has stronger gluten than older CPS red wheat varieties
- the improved gluten strength of AC Crystal makes it a desirable milling wheat for many customers

**1993-95 High Yield Wheat Cooperative Trials – All Sites in Western Canada**

Entry	Yield % Neepawa	Maturity days	Lodging 1 = erect 9 = flat	Height (cm)	Test wt. (kg/hL)	Seed Size (mg)	Loose smut rating
Neepawa	100	104.5	2.8	100	78.5	32.1	R
AC Taber	139	109.5	2.1	85	78.5	39.7	HS
AC Foremost	131	107.7	1.5	79	77.9	40.2	MS
AC Karma	133	107.8	1.9	86	79.0	37.8	MS
AC Crystal	139	109.0	1.8	85	78.9	40.1	MS

**2002 Varieties of Grain Crops for Saskatchewan  
Canada Prairie Spring Red Wheat**

Variety	Area 1	Area 2	Area 3	Area 4	Irr	Relative Maturity (Days)	Lodgin g	Shatterin g	Sproutin g	Stem Rust	Leaf Rust	Loose Smut	Bunt	Leaf Spot	FHB	
	Yield as % AC Barrie															
AC Crystal	119	121	117	118	112	103	VG	VG	P	G	P	F	G	F	VP	
AC Foremost	119	122	118	116	109	102	G	G	F	G	P	F	G	P	VP	
AC Taber	117	122	118	114	116	104	VG	VG	P	G	F	P	G	F	VP	
5700PR	118	119	122	123	120	102	VG	G	P	G	F	F	VG	P	P	

**2002 Alberta Seed Guide  
Canada Prairie Spring Red Wheat**

Variety	Area					Mat. (Days)	Test Wt. (lb/bu)	Kern. Wt. (mg)	Ht. (cm)	Ldg.	Shat.	Loose Smut	Bunt	Root Rot	Leaf Spot	Sprout	FHB
	1	2	3	4	5 & 6												
AC Taber	100	100	100	100	100	112	61	41	81	G	G	S	R	I	F	P	VP
5700PR	99	97	101	105	102	0	63	42	80	EX	G	S	R	I	P	P	VP
AC Crystal	95	99	101	102	98	-1	61	42	80	G	G	I	R	S	F	P	VP
AC Foremost	96	94	95	104	98	-3	61	42	74	EX	G	R	R	I	P	F	VP