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Lucknow

Palmerston



- Head Office
- Food grade soybean facility
- Receiving facility
- Cleaning, processing, and packaging seed
- Seed treating



- Receiving facility
- Cleaning, processing, and packaging pedigreed seed
- Seed treating



THE SNOBELEN **FARMS DIFFERENCE**

Snobelen Farms Ltd. is an independent, family owned company that was founded in 1971, specializing in commercial grains and pedigreed seed for markets across Canada and Internationally, and the production, processing and sales of food grade soybeans. We take pride in combining years of experience with attentive customer service to complement the premium quality of our agricultural products. With eight locations we are able to serve the needs of growers across Ontario.

Family

Customer Service

Quality Development

From the beginning, Snobelen Farms has been a family business. We treat all our customers, employees and communities as part of the family as well.

Unsurpassed service to customers before, during and after your visit to Snobelen Farms.

Continuously improving the Snobelen Farms experience.





We are CIPRS + HACCP, **FEMAS Certified**

We Specialize in:

- Multiplying, processing, and selling the best genetics for our area.
- Testing and growing the varieties that work for the farmer and the end users
- Selling certified seed to farmers and retailers across Ontario

With our state-of-the-art seed treating facilities we are able to offer the best seed treatment offerings on the market, providing solid agronomic choices and returns to the farmer.

OUR SEED TEAM



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VARIETY CHARACTERISTICS

b.		A	Fusarium	Data	Test Weight	Height	Heading	Maturity	Lodging	Straw Yield	
ш		N. I	Combined	DON	st	ght	ding	urity	ging	ild	
3	Oats										
	AAC Rosken	Tan			AA	М	1	E	ВА	ВА	
	AAC Bullet	White			AA	S		E	AA	Α	
	AAC Banner	White			ВА	S		1	Α	ВА	
	CDC Haymaker	Forage			N/A	VT		VL	ВА	N/A	
	Everleaf 126	Forage			N/A	VT		VL	ВА	N/A	
	Spring Wheat										
	Quantum		S	S	AA	S	М	E	AA	AA	
	Ventry		MS	MS	AA	S	E	E	AA	AA	
				Bar	ley						
	AC Kings	2R			AA	TY	М	E	ВА	Α	
	DS569	2R			AA		E	E			
	Bornholm	2R			ВА	S	М	E	AA	AA	
A T	AAC Purpose	2R			AA	T	E	М	ВА	AA	
	OAC Laverne	6R			AA	(T)	E	М	AA	BA	
A .	Dignity	6R			ВА	М	М	М	AA	AA	
	DS812	6R			Α	M	М	М	AA	AA	
	AAC Vitality	6R			ВА	T	Th	L	ВА	ВА	
	HY621	6R	3		ВА	М	E	E	Α	BA	

Test Weight, Lodging, Straw Yield: AA=Above Average, BA=Below Average, A=Average

Height: S=Short, M=Medium, T=Tall, VT=Very tall

Heading & Maturity: E=Early, M=Medium, L=Later, VL=Very late

Fusarium Data: S=Susceptible, MS=Moderately Susceptible

Oats CHARACTERISTICS

Rosken

- Tan hulled milling oat
- High yield potential
- Excellent beta glucan levels
- Earlier maturity ideal for mixed grain
- Can be Crown Rust susceptible

Bullet

- White hulled milling oat
- Good Crown Rust resistance
- Very strong straw
- Excellent yields, heavy kernel weight
- Medium height

Banner

- White hulled milling oat
- Excellent yield potential
- Desirable milling qualities
- Requires fungicide application to control Crown Rust

CDC Haymaker

- Forage oat
- Large, plump seed with high seed weight
- Tall structure with later maturity
- High yield potential

Everleaf 126

- Forage oat
- High crude protein and digestible fibre
- Exhibits Crown Rust resistance and other leaf disease tolerance
- Medium to tall plant stature

Spring Wheat CHARACTERISTICS

Quantum

- Very good yield potential
- Early maturity
- Feed quality HRS
- Short plant stature
- Excellent standability

Ventry

- Good yield potential
- Excellent lodging tolerance
- Good disease package



Barley

CHARACTERISTICS HY 621 **AC Kings DS5692RB** • Six-row • Two-row • Two-row • Early maturity Mid maturity • Good height, lodging resistant Good overall Above test weight disease package Early maturing • Excellent yield

Bornholm

Medium plant height

- Two-Row
- Early maturity
- Great test weight
- Excellent yield potential

Purpose

Makes excellent feed

• Easy to combine

• Two-row

value

- Excellent standability
- Heavy bushel weight makes excellent feed value
- Easy to thrash

Laverne

• Six-row

potential

- Good lodging resistance
- Excellent kernel weight
- Average height
- Height yielding and heavy bushel weight

Dignity

- Six-row
- Great straw strength
- Suited for Areas II and III in Ontario
- Good standability
- Medium height

DS812

- Six-row
- Noted for standability
- Hight straw index

Vitality

- Six-row
- Excellent standability
- Medium height barley
- Average yield

PLANT POPULATIONS

	Millions of Seeds/Acre	Plants/Foot of Row on 7.5" row spacing
Oats	0.8—1.2	11.5—17.2
Barley	1.0—1.4	14.3—20.1
Mixed Grain	0.8—1.4	11.5—20.1
Spring Wheat	1.2—1.6	17.2—23.0
Winter Wheat	1.4—1.8	20.1—25.8

SEEDS PER FOOT ROW

Desired Plant Population (Seeds / foot of row) in 7.5 inch row spacing

Seeds per Acre	809k	1.012M	1.213k	1.416k	1.619k	1.861k
Seeds/foot row	12	14	17	20	23	26

Snobelen Farms Ltd. 2021 Spring Cereal Guide

POUNDS OF SEED PER ACRE

Pounds of seed to be planted per acres assuming 15% stand

loss and 95% germination										
Seeds/lb.	800k	900k	1M	1.1M	1.2M	1.3M	1.4M	1.5M	1.6M	1.7M
lbs/ac										
8,000	123.8	139.3	154.8	170.3	185.8	201.2	216.7	232.2	247.7	263.2
8,500	116.6	131.1	145.7	160.3	174.8	189.4	204.0	218.5	233.1	247.7
9,000	110.1	123.8	137.6	151.4	165.1	178.9	192.6	206.4	220.2	233.9
9,500	104.3	117.3	130.4	143.4	156.4	169.5	182.5	195.5	208.6	221.6
10,000	99.1	111.5	123.8	136.2	148.6	161.0	173.4	185.8	198.1	210.5
10,500	94.4	106.1	117.9	129.7	141.5	153.3	165.1	176.9	188.7	200.5
11,000	90.1	101.3	112.6	123.8	135.1	146.4	157.6	168.9	180.1	191.4
11,500	86.1	96.9	107.7	118.5	129.2	140.0	150.8	161.5	172.3	183.1
12,000	82.6	92.9	103.2	113.5	123.8	134.2	144.5	154.8	165.1	175.4
12,500	79.3	89.2	99.1	109.0	118.9	128.8	138.7	148.6	158.5	168.4

13,000

13,500

14,000

14,500

76.2

73.4

70.8

68.3

85.7

82.6

79.6

76.9

95.3

91.7

88.5

85.4

100.9

93.9

104.8 114.3 123.8 133.4 142.9 152.4 161.9

110.1 119.3 128.4 137.6 146.8

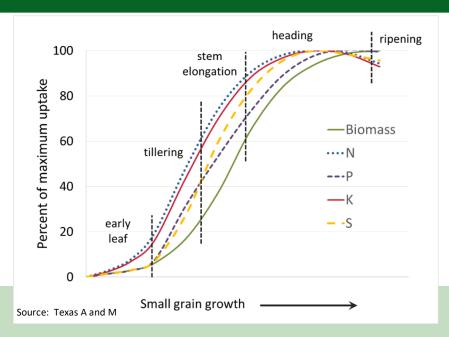
97.3 106.1 115.0 123.8 132.7 141.5 150.4

102.5 111.0 119.6 128.1 136.6

155.9

145.2

PLANT NUTRITION



NUTRITION REMOVAL

Crop		P ₂ O ₅	К	S	
	Barley	17	24	5	
Grain	Oats	13	17	4	
	Spring Wheat	18	16	6	
	Barley	5	67	3	
Straw	Oats	2	58	1	
	Spring Wheat	4	43	2	
	Barley	23	91	8	
Combined	Oats	15	75	5	
	Spring Wheat	22	59	8	

Source: Dr. Tarlock Sing Sahota, Lakehead University

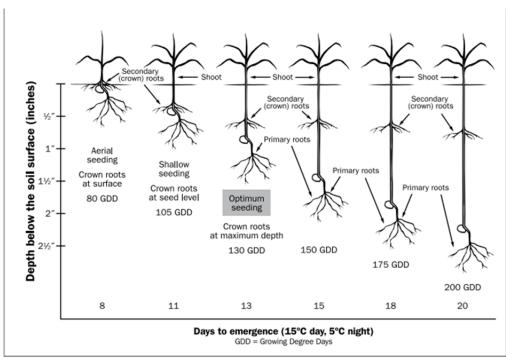
Nutrition removal expressed in lbs.

 P_2O_5 = Phosphorus, K_2O = Potassium, SO_4 (Sulphate Sulphur) per acre for a 100bu/ac barley crop, 100bu/ac oat crop and a 65bu/ac spring wheat crop.

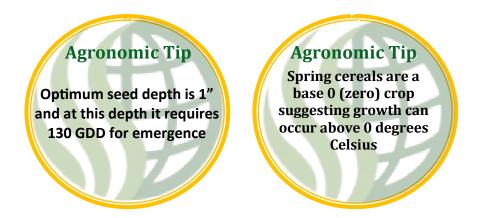
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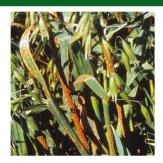
SEEDING DEPTH



Source: Publication 811, University of Guelph/OMAFRA



DISEASES



Crown Rust

The first symptoms of crown rust are orange-brown pustules that appear scattered over the leaf surface. Leaf sheaths, and later the oat panicle, can also become infected. The disease is favoured by high temperatures (20–25°C) so epidemics usually occur in June–July. Late in the season black pustules appear within the existing crown rust lesions.

Agronomic Tip

Good seed-to-soil contact and adequate soil moisture for germination are essential



Stripe Rust

In Ontario, stripe rust does not overwinter. Instead urediniospores, the source of inoculum, are blown from the United States. Normally the first inoculum starts arriving at the beginning of June. Symptoms will normally appear about one week after infection. The urediniospores need several hours of moisture on plant leaves, along with temperatures near 10°C, to germinate and infect the host. After infection, small yellowish uredinia appear in linear rows the length of the leaf blade as result of fungal mycelia from the spores elongating in parallel with the leaf veins (see photo). A single infection can result in one stripe the length of the leaf. The head can also be infected and kernels are replaced with yellow spores. With severe early infections, plants can also be stunted.



Common Root Rot

This disease is caused by a complex of soil-borne fungi. The spores germinate in the soil. Seedlings become infected following germination. Spores are produced on diseased tissue and are spread by wind, water, cultivation, and infected seeds. Further infections continue throughout the growing season with new spores being produced on plant parts as they mature. Patchy emergence is usually the first indication that damage has occurred. Infections start on the roots and sub-crown internodes and move to the leaves. Seedlings may die before or soon after emergence even though they only show slight damage.

Pictures & Descriptions derived from: University of Nebraska-Lincoln, Queensland Government, Alberta Government



Powdery Mildew

Symptoms of powdery mildew can be found on leaves, stems and heads, but leaves are most commonly infected. Typically, white pustules appear which produce a mass of spores with a powdery appearance. As the mildew pustules become older, they darken to a grey or brown colour. Eventually, black spore cases (cleistothecia) can be found embedded in the mildew pustule, usually towards the end of the season.

Agronomic Tip

Early planting promotes
tillering, large head
production and advance
flowering (avoiding the hot
and dry conditions typical
of late June and July

INSECTS



Cereal Aphid

Oat aphids are the most abundant species of cereal aphids and vary from mottled yellow-green through olive-green and dusky brown, to a blackish green, and are characterised by a reddish patch on the tip of the abdomen. Symptoms include patches of plants with furled leaves and may have a 'sooty' appearance. Oat aphid colonies develop on the outside of tillers from the base upwards on stems, nodes and backs of mature leaves, starting any time between seedling stage and grain filling. Feeding damage often has no obvious signs or symptoms, although heavily-infested plants may be covered in black sooty moulds, which live on the sugary honeydew excreted by aphids. Plants may also show signs of barley yellow dwarf virus (BYDV).



True Armyworm

Armyworm larvae feed nocturnally and damage from small larvae may not be evident at first. In wheat and other small grains, look for early signs of feeding and/or larvae on the soil surface. Damage may be concentrated in lodged areas or areas with dense growth. Check all fields closely by looking for both leaf defoliation and head-clipping. Two factors increase risk of true armyworm infestations each year. The first is cool, wet April conditions which are detrimental to the natural enemies of armyworm. The second is strong storm fronts that carry in large numbers of moths from the southern US where they overwinter.



Cereal Leaf Beetle

Larvae are yellowish-orange, but this color is usually obscured by a layer of feces and mucus, giving them a shiny appearance. This layer protects them from natural enemies and drying out and has been known to ruin a favorite pair of pants as fields with heavy infestations are walked. Cereal leaf beetle has one generation per year. Adults pass the winter in leaf litter in wood lots, hedgerows, and similar areas. In March and mid-April as temperatures increase, adults fly to grain fields to lay eggs, which hatch and young larvae begin to feed. Young larvae do not inflict much damage, but older larvae have voracious appetites and can cause extensive damage. CLB larvae and adults feed between the veins of the newest leaves on host

plants. Larvae cause the most damage by removing long strips of tissue from the upper leaf surface, while leaving the translucent cuticle of the lower surface intact. This feeding pattern produces a characteristic "frosted" appearance. Tips of damaged leaves frequently turn white, giving heavily infested fields a frost-damaged appearance.

Pictures & Descriptions derived from: University of Nebraska-Lincoln, Queensland Government, Alberta Government Agronomic Tip

Responsive to management including planting dates, plant density, fertility, fertilizer placement, fungicides and weed control



SNOBELEN FARMS QUALITY WITHOUT COMPROMISE



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