

Bean Seed Variety Profiles:

These descriptions are based on historical data and may vary according to cultural practices and weather conditions as well as geographical region. Diseases are constantly adapting, changing the resistance/tolerance of the bean plants and their performance. Kelley Bean Co. Inc. disclaims legal responsibility therefore.

Great Northerns

GREAT NORTHERN 118 - (GN-118)**

Great Northern 118 is an upright medium profile variety that arches over somewhat, holding its pods off the ground. GN-118 is a competitive yielding variety when compared to WeiHING or Beryl. It is more upright than Beryl and similar in architecture to WeiHING. GN-118 is one day later in maturity than Beryl.

Seed Count of GN-118 is 1284 seed / lb. Compared to Beryl at 1500 seed / lb.

GN-118 has the "I" gene for bean common mosaic virus and exhibits some tolerance to rust.

GN-118 has acceptable canning characteristics.

*YIELD DATA**(14 yr./locations)

GN-118	2746 lbs./AC*
Beryl	2815 lbs./AC*

ECONOMIC PROFILE

Variety GN-118 is a well adapted variety to western Nebraska where upright architecture is desirable due to strong flat ground. Its competitive advantage over Beryl would be on strong flat ground or where direct harvest may be considered.

KELLEY BEAN CO. INC.

**US plant variety protection applied for; unauthorized propagation prohibited!

* Mean lbs./AC from trials in Morrill, Minatare, and Gering from 1999-2003 in 11 year/locations.

Data not meant to be a guarantee of performance, but rather is a report of past performance.

GREAT NORTHERN ORION - (GN-124)**

Great Northern Orion is an upright medium profile variety quite similar in plant type to Beryl but more upright. Orion is a high yielding variety which matures approximately one day later than Beryl.

Orion responds favorably to early irrigation and a fertility program.

The average seed size is larger than Beryl at 1313 seed / lb. compared to Beryl at 1482 seed / lb., and is more consistent year to year.

Orion has the "I" gene for bean common mosaic virus, but does not have resistance to rust.

Orion has demonstrated excellent canning quality.

*YIELD DATA**(14 yr./locations)

Orion	3000 lbs./AC*
Beryl	2778 lbs./AC*

ECONOMIC PROFILE

Assuming a 220 lbs. increased yield compared to Beryl, growing Orion will potentially increase your profit by \$39/AC on \$18/cwt beans. This amounts to \$3,900 on 100 acres.

KELLEY BEAN CO. INC.

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*Mean lbs./AC from trials in Morrill, Minatare, Gering, and Scottsbluff from 1999-2004 in 14 year/locations.

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GREAT NORTHERN 131 - (GN-131)**

Great Northern 131 is a medium, upright, short vine, medium profile variety that arches over. GN-131 is a high yielding, early maturing variety suitable for replanting or later planting for other reasons. GN-131 is similar in maturity to Ivory. GN-131 is best utilized on strong ground due to its shorter vine.

GN-131's seed count is 1392 seed / lb. compared to Beryl at 1490 seed / lb. GN-131 has the "I" gene for bean common mosaic virus has acceptable canning characteristics.

YIELD DATA*(20 yr./locations)

GN-131	2703 lbs./AC*
Beryl	2684 lbs./AC*

ECONOMIC PROFILE

Growing this early maturing proprietary variety provides a high yielding option for replanting without a sacrifice in yield compared to Beryl. The estimate 20 lbs/AC increase over Beryl yields an increase of approximately \$4/AC with the benefit of earlier maturity.

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* Mean lbs./AC from trials in Morrill, Minatare, Gering, Scottsbluff, and Mitchell from 1999-2004 in 20 year/locations. Data not meant to be a guarantee of performance, but rather is a report of past performance.

GREAT NORTHERN 136 - (GN-136)**

Great Northern 136 is an upright medium profile variety that arches over holding its pods off the ground. GN-136 is demonstrating higher yield when compared to Weihing. It is more upright than Beryl and similar in architecture to Weihing. GN-136 is one day later than Beryl and has larger seed with an average seed count of 1224 seed / lb., compared to Beryl at 1514 seed / lb. and Weihing at 1252 seed / lb.

GN-136 carries the BC*2*2 gene for bean common mosaic virus and has acceptable canning qualities.

YIELD DATA*(8 yr./locations)

GN-136	2457 lbs./AC*
Weihing	2316 lbs./AC*

ECONOMIC PROFILE

Assuming a 140 lbs./AC increased yield over Weihing, growing GN-136 will potentially increase your profit by \$25/AC on \$18cwt beans. This advantage amounts to \$2500 on 100 acres. The advantage over Beryl and Marquis would be in areas where too much vine is an issue.

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* Mean lbs./AC from trials in Mitchell, Minatare, and Gering from 2000-2004.

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BERYL - GREAT NORTHERN BEAN - Advanced Genetics

Performance and Adaptability - A combination of early maturity, wide adaptability, and excellent yield potential have earned Beryl the reputation as an industry standard in western Nebraska. Its ability to maintain production under a wide array of conditions and production practices makes it a hard-to-beat, farmer-friendly bean. Beryl typically delivers the high quality the industry expects.

Growth Habit and Maturity - Beryl's medium-sized vine has a semi-upright structure. It matures in approximately 92 days, and dries down uniformly.

Quality - Beryl typically yields approximately 1,450 attractive, chalky white seeds per pound. Its outstanding seed appearance and canning quality characteristics have contributed to Beryl's overall success.

Disease Tolerance - Beryl has shown resistance to the prevalent strains of Bean Common Mosaic virus and tolerance to Halo and common bacterial blights, and many races of bean rust. It has exhibited some field tolerance to white mold.

All variety information presented herein is based on field and laboratory observations. Actual crop yield and quality are dependent upon many factors beyond our control. Since environmental conditions and local practices may affect variety characteristics and performance, we disclaim legal responsibility therefore. Read all tags and labels. They contain important conditions of sale, including limitations of warranties and remedies. Plant Variety Protection for Beryl has been granted.

IVORY - GREAT NORTHERN BEAN - Advanced Genetics

Performance and Adaptability - Ivory is an early-maturing great northern bean adapted to areas with shorter growing seasons. Its manageable vine growth has made it an ideal choice for producers with high fertility fields. Ivory has readily adapted to late plantings and replant situations.

Growth Habit and Maturity - Ivory has an open plant and short vine. It matures uniformly in approximately 89 days, or about 2-3 days later than US1140.

Quality - Ivory typically yields approximately 1,250 attractive, chalky-white seeds per pound. Its tolerance to seed coat cracking, general appearance, and canning quality meet all industry standards.

Disease Tolerance - Ivory has shown resistance to the prevalent strains of Bean Common Mosaic virus and good field tolerance to Halo and Common blight bacterial diseases. Its early maturity and short vine may make it less susceptible to white mold.

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MARQUIS - GREAT NORTHERN BEAN - Advanced Genetics

Performance and Adaptability - Marquis is a broadly adapted Great Northern bean that has demonstrated its ability to deliver consistent high yields. Its similarity to Beryl makes it an excellent choice for producers seeking to spread their variety risk. Like Beryl, Marquis is adapted to a broad array of production conditions and has established a reputation for high yields and good seed quality characteristics.

Growth Habit and Maturity - Marquis' medium-sized vine has a semi-upright structure. Beryl may have slightly more vine and enhanced yield potential, depending on prevailing environmental factors. Marquis matures in approximately 95 days, or about 3 days later than Beryl.

Quality - Marquis typically yields approximately 1,450 attractive, chalky-white seeds per pound. Its outstanding seed appearance and canning quality characteristics have contributed to Marquis' overall success.

Disease Tolerance - Marquis has shown resistance to the prevalent strains of Bean Common Mosaic virus. It has also exhibited good field tolerance to Halo and Common bacterial diseases and several races of bean rust and white mold.

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Pintos

BUCKSKIN (RNK101) - Pinto Bean - Advanced Genetics

Performance and Adaptability - BUCKSKIN is a new early variety with broad adaptability. BUCKSKIN yield stability is due to a strong early pod set and root rot tolerance. BUCKSKIN has high yield potential over broad production conditions. It has also shown good dry down even when late season rains can produce regrowth in other varieties.

Growth Habit and Maturity - BUCKSKIN has a short upright vine maintaining most pods off the ground. BUCKSKIN has a more erect habit than a similar variety Othello. BUCKSKIN is an early variety with approximately 88 days to maturity. This allows flexibility of planting time and timely harvest.

Seed Quality - BUCKSKIN has the traditional shape and size of approximately 1185 seed per pound. Cold germination is good.

Disease Resistance - BUCKSKIN is resistant to the prevalent strains of Bean Common Mosaic virus. BUCKSKIN also shows some tolerance to bacterial Brown spot and Halo blight. It has shown more tolerance to bean rust and white mold than Othello.

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MONTROSE*

Montrose is a high yielding, mid season, disease resistant pinto. Montrose pinto has a prostrate Type III plant habit, maturing in approximately 92-95 days in Colorado. Seed has traditional pinto size of 1237 seeds / lbs., and seed quality is excellent.

Montrose is resistant to prevalent races of rust, and bean common mosaic virus, but is susceptible to white mold due to its prostrate vine type.

Colorado State University

*Cultivar protection has been filed under the U.S. plant variety protection act, unauthorized propagation prohibited!

PONCHO (ROG179) - PINTO BEAN - Advanced Genetics

Performance and Adaptability - ROG179 is a high yielding vine variety adapted to much of the high plains region. ROG179 has a medium length vine with enough stem structure to keep many pods off the ground, and this helps to maintain bean quality. ROG179 has its best performance on medium fertility or sloping soils.

Growth Habit and Maturity - ROG179 is a mid-season vine variety with an approximate maturity of 95 days. This is about the same as the Bill Z. variety.

Seed Quality - ROG179 has the traditional pinto shape and size, with about 1200 seeds per pound. It has bright attractive seed maintaining well in storage. ROG179 also has good cool soil germination.

Disease Resistance - ROG179 is tolerant to the prevalent strains of Bean Common Mosaic virus. It has shown some tolerance to bacterial brown spot and halo blight. ROG179 also has some field tolerance to bean rust.

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Light Red Kidney

LIGHT RED KIDNEY ROG773

Light red kidney ROG773 is an upright bush plant type with a slightly huskier plant type than California Early light red kidney. It has shown high yield potential in an early season kidney variety. ROG773 maturity is about 84 days in Idaho or two days later than California Early light red kidney variety. The seed count of ROG773 is traditional at 850 or slightly larger than California Early light red kidney. The seed color is traditional, and typical for the variety class.

The average regional yield for light red kidney ROG773 has shown the following:

		Yield Lbs/ac	Seed Count
Idaho yield average from 1998 to 2002:	ROG773	2998	816
	Foxfire	2758	930
	CELRK	2765	871
Colorado yield average at CSU 2000:	ROG773	2008	890
	Foxfire	1985	1020
	Sac	1570	952

Light red kidney ROG773 has "I" gene resistance for bean common mosaic virus and in field trials has shown a higher tolerance to bacterial blights than California Early light red kidney.

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SACRAMENTO LRK - SEEDWEST - Agri Sales

Reliable Performance / Year-in, Year-out

Released by:	Agri Sales-Seedwest
Market Type:	Light Red Kidney
Adaptation:	Areas with reliable rainfall or irrigation
Maturity:	Early, approximately 85 days
Plant Habit:	Upright small bush
Yield Potential:	Excellent
Canning Quality:	Excellent
Packaging Quality:	Excellent
Flower color:	Lavender
Seed Count:	Ca. 950 Seed/lb.
Seed Quality:	Excellent
Disease Resistance:	Bean Common Mosaic Virus – Susceptible
Seed Class Availability:	Certified and Non-Certified
Certified Seed available through cooperation with Agri Sales	
White mold – Tolerant	

Blacks

ONYX - BLACK BEAN - Advanced Genetics

Performance and Adaptability - Onyx is a new mid-season, black bean variety that has exhibited wide adaptability throughout northern and Great Lakes growing regions. Although this variety's medium-sized vine may close production rows most pods are held off the ground. This has allowed Onyx to deliver high quality pods despite wet harvest conditions. A quick dry-down further enhances Onyx's yield potential.

Growth Habit and Maturity - Onyx has an upright, arched structure, short runner, wide branching profile, and high pod set. It matures approximately 95 days from planting, about one or two days earlier than T-39.

Seed Quality - Onyx typically yields approximately 2,300 plump, dull black seeds per pound. Onyx seed has shown a tendency to germinate well in cool soils.

Disease Resistance - Onyx has exhibited resistance to the prevalent strains of Bean Common Mosaic virus, and anthracnose race 7 making it an ideal choice for Great Lakes production areas. It has also shown tolerance to bean rust, and moderate tolerance to Fusarium root rot.

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SHADOW - BLACK BEAN - Advanced Genetics

Performance and Adaptability - Shadow is a widely adapted, mid-season black bean variety that offers an excellent disease package. Its unique, upright plant structure tends to perform well in soils with higher fertility. To enhance yield potential, schedule harvest of Shadow's semi-determinate plant at full maturity. Shadow dries down uniformly.

Growth Habit and Maturity - Shadow has a unique, upright, plant characteristically topped by a short runner habit. This gives it the appearance of a tall bush. Its strong branching habit and high-scattered pod set are supported by Shadow's stiff main stem. Shadow matures in approximately 95 days, about two days earlier than the public variety T-39, or about four days earlier than the public variety Midnight.

Seed Quality - Shadow typically yields approximately 2,500 dull black seeds per pound. Shadow has shown a tendency to germinate well in cool soils.

Disease Resistance - Shadow has shown resistance to the prevalent strains of Bean Common Mosaic virus, and moderate tolerance to white mold and bacterial bean diseases. It has also shown good tolerance to the prevalent races of bean rust.

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SCHOONER - NAVY BEAN - Advanced Genetics

Performance and Adaptability - Schooner is full-season navy bean that has demonstrated its wide adaptability under a range of growing conditions in the Great Lakes and northern regions. This variety tends to take advantage of an extended growing season with enhanced yields. A quick dry-down further boosts Schooner's yield potential.

Growth Habit and Maturity - Schooner has a semi-upright plant with a medium, arched vine. The plant's structure holds many pods off the ground, which may reduce the incidence of white mold. Schooner matures approximately 98 to 100 days from planting, or about three to four days later than Avanti.

Seed Quality - Schooner is a traditional navy bean. It typically yields approximately 2,550 seeds per pound. Schooner's demonstrated tolerance to seed coat cracking has enhanced its canning quality.

Disease Resistance - Schooner has demonstrated resistance to the prevalent strains of Bean Common Mosaic virus. It has shown tolerance to bacterial brown spot, the current races of bean rust, and the Delta strain of anthracnose bean disease. Moderate tolerance to common and halo bacterial bean diseases has been noted.

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VISTA – NEW NAVY BEAN VARIETY

Developed by:	Gen-Tec Seeds, Limited
GTS 0286:	Previous experimental number.
Plant type:	Upright bush with short vine (Type II).
Plant height:	Taller than Crestwood
Plant spread:	Narrower than Crestwood and Fleetside
Maturity:	Full season; two days later than Ex Rico 23 and four days earlier than Harofleet.
Flower color:	White
Pods:	Light beige at maturity; no anthocyanin pigment; four to eight seeds per pod.
Root:	Large, sturdy, extensive, similar to Crestwood.
Lodging resistance:	Good; suitable for direct combining.
Yield potential:	Excellent.
Seed characteristics:	Dull white seed coat; ellipsoidal and slightly flattened in shape; seed weight – 20.6 gm/100 seeds; cooking quality – acceptable, similar to OAC Seaforth.
Disease resistance:	Resistant to races 1 and 15 of bean common mosaic virus (BCMU) and to the alpha, beta, gamma and delta races of bean anthracnose; moderately tolerant to white mold due to its upright structure.
Performance:	Vista has yielded extremely well in the Official Ontario Field Bean Trials from 1987 to 1989 and appears to be well adapted to the bean production areas where full season varieties are being grown.
Seed stocks:	Foundation seed stocks are maintained and produced by Gentec, Inc. Twin Falls, Idaho to ensure the highest quality of seed with respect to genetic purity and freedom from seed-borne diseases.

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GREAT NORTHERNS

EMERSON

Medium vine habit, maturing in approximately 94 days. It is tolerant to halo blight and bacterial wilt. The seed appears not to be colored by common blight. Emerson is resistant to BCMV 1 and 15 but susceptible to CTV. The pods stripe at maturity. Emerson responds well to good fertility and care. It is very large seeded. Kelley Bean Co Inc has exclusive rights to this seed.

WEIHING

Intermediate – upright vine habit, maturing in approximately 90-93 days. It has good resistance to rust, common and halo blight, brown spot, and BCMV. Weihing shows some tolerance to white mold, due to its architecture. It has large seed size, bright white seed color and excellent yield potential.
- University of Nebraska

US 1140

Short vine habit, maturing in approximately 87 days. It is tolerant to halo blight and is resistant to BCMV 1 and 15, but susceptible to CTV. It often avoids disease with its early maturity. A good choice for early harvest, replant, or high fertility, flat fields. Large seeded.
-UI/USDA

PINTO BEANS

BILL Z

Indeterminate vigorous vine habit, maturing in approximately 95-97 days. It is moderately tolerant to bacterial brown spot and some races of rust. Bill Z is resistant to BCMV 1 and 15 and CTV. A good yielder with acceptable size and color.
-Colorado State University

CHASE

Indeterminate upright vine habit, maturing in approximately 92-95 days. It has good resistance to halo blight, brown spot and rust with some leaf tolerance to common blight. Chase is susceptible to BCMV NY 15. A good yielder under disease pressure.
-University of Nebraska

OTHELLO

Short vine habit maturing approximately 88-90 days. It is resistant to BCMV 1 and 15 and CTV. It is a good yielder with acceptable seed size, color and cooking qualities, a good choice for early harvest or replant.
-UI/USDA-P

UI 126

Short upright vine habit, maturing in approximately 92 days. It is tolerant to common, halo, and fuscous blight, resistant to BCMV 1 and 15 and CTV. It has excellent seed quality, size, and color.
-University of Idaho

LIGHT RED KIDNEY SEED

CALIFORNIA EARLY

Large determinate upright habit, maturing in approximately 85 days. It is resistant to BCMV 1 and 15, but susceptible to CTV. Seed size is large with good color and canning qualities. California Early yield is acceptable.
-University of California Davis

CHINOOK 2000

High yielding light red kidney with a large bush, type I plant habit, and late season maturity at approximately 98-100 days. Seed size is large at 757 seeds / lbs., and is of excellent canning quality. Chinook 2000 is resistant to prevalent strains of rust and is resistant to anthracnose, but is susceptible to common blight. Chinook 2000 should be planted prior to June 1st in Nebraska if possible, and should be allowed to dry down properly before harvest.

-Michigan State U.

-Public variety with research fee / cwt on all Certified seed sold.

PINK BEAN SEED

HAROLD

Short upright vine habit, maturing in approximately 92 days (Idaho). Harold shows resistance to CTV and BCMV 1 and 15, and tolerance to root rot. Seed size is 1300 pounds and seed quality and color are good.

-USDA, WA ST, U of Id, OR ST

VIVA

Short upright vine habit, maturing in approximately 90 days (Idaho). Viva shows resistance to CTV and BCMV 1 and 15 and CTV, tolerance to root rot, as well as white mold avoidance. Seed size is 1680 pounds with very good seed quality and canning quality. The industry standard.

-UI/USDA-P

UI 537

Semi upright medium vine habit, maturing in approximately 89 days (Idaho). 537 has resistance to BCMV 1 and 15 and CTV. Seed quality and color are fair and size is good.

-University of Idaho

SMALL RED SEED

NW 63

Vigorous type III B vine habit, maturing in approximately 89 days (Idaho). It shows resistance to halo blight, BCMV 1 and 15, and CTV. Seed size is 1390 pounds with very good seed and canning qualities, a good yielder.

-UI/USDA-P

UI 239

Vigorous type III B vine habit, maturing in approximately 91 days (Idaho). It shows resistance to BCMV strains 1 and 15 and CTV. UI 239 has excellent seed quality and color, and above average canning characteristics. It is a good yielder.

-University of Idaho

SMALL WHITE SEED

AURORA

Small vine habit, holding the majority of the pods in the upright center of the plant. Maturity is approximately 93 days. It is resistant to the halo blight, BCMV 1 and 15, beta anthracnose and CTV. Aurora has good seed and canning quality, seed size is 3100 per pound.

-Cornell University

UI 125

Small vine upright habit, maturing in approximately 91 days. It is resistant to BCMV 1 and 15 and moderately resistant to CTV. Seed size is 2590 per pound and is of good quality.

-University of Idaho