



**North Dakota
Home Garden
Variety Trials
2023**

Join Us!

North Dakota State University (NDSU) is looking for gardeners to help evaluate vegetable and flower varieties. We'll work together to discover which varieties grow best for us in North Dakota.

Who Can Participate?

Everyone! This includes all commercial growers and backyard gardeners. Everyone.

We have formed a team of over 1,000 families during the past few years, making this one of the largest agricultural research networks in America. We focus on working with gardeners in North Dakota but will work with gardeners living near the border in adjacent states/provinces.

Is It Hard to Participate?

NDSU is not looking for complicated data. For each trial, we simply wish to know which of the two varieties germinated best, was most healthy, matured earlier, produced the highest yield, and produced the finest quality food/flower.

We wish to know which of the two varieties you prefer and which of the two varieties you recommend to other gardeners. See page 10 for an example of a completed evaluation form.

Selecting Trials

Each trial has two varieties and households must grow and evaluate both varieties.

Households may select up to eight trials. All efforts will be made to give the gardeners their preferred trials, but seed supplies are limited. Gardeners will have the option to select alternate trials in case their first selections are not available.

You may order seeds online at www.ag.ndsu.edu/homegardenvarietytrials/.

Index

VEGETABLES

Bean	2
Beet	3
Broccoli	2
Cantaloupe	3
Carrot	5
Corn	4
Cucumber	6
Lettuce	4
Okra	2
Pea	5
Pepper	5
Pumpkin	7
Summer Squash	8
Winter Squash	8
Tomato	6
Watermelon	3

FLOWERS

Sunflower	9
Zinnia	9

APPENDIX

Example of Completed Evaluation Form	10
Example of Completed Order Form	11
Order Form	12
Contact Us	13

Another option is to fill out the order form on the last page and mail it with your payment. Shipping costs may be waived if seeds are picked up at the Gateway Extension office, 2718 Gateway Avenue in Bismarck (you will be contacted when seeds are ready to be picked up).

Our Agreement

This project is a research program, not a seed store. **Gardeners must agree to manage their seeds in a responsible manner and report their results to NDSU.** For our part, we have made the trials simple and fun!

Gardeners will receive seed packets sufficient to plant a 10-foot row of each variety. Row labels and evaluation sheets will also be mailed.

We use 10 feet as our guide to get a fair look at a variety. Persons with small gardens or container gardens may participate but are asked to give a fair look of each variety.

Let's discover which varieties grow best for us in North Dakota.

BEAN



1. Green Bush

Caprice

56 days. Pods are straight, smooth, delicious and slow to get seedy. Upright plants tolerate heat.

Homerun

58 days. Heavy yields of smooth, long pods. Sturdy plants tolerate multiple harvests and heat stress.

75 seeds each



2. Organic Green Bush

Antigua

50 days. Easy to grow and early ripening. Plants tolerate cool soils and harsh climate conditions.

Red Tail

55 days. Tall, upright plants produce incredible yields. Pods are dark green, shiny and straight.

75 organic seeds each



3. Yellow Bush

Custard

55 days. Slender, beautiful, bright yellow pods are produced continuously. Delicious.

Gold Rush

55 days. Lemon-yellow pods with green tips. Pods are straight, crisp and flavorful. Easy to pick.

75 seeds each



4. Purple Pole

Carminat

62 days. Velvety purple, 8-inch pods are slender, tender and slightly sweet. Attractive green and purple vines grow 8 feet.

Purple Podded

70 days. Vigorous, 7-foot vines produce bright purple pods. Introduced from the Ozarks in the 1930s. Lilac blooms.

50 seeds each

BROCCOLI



8. Garden

Green Magic

68 days. Heads are bright green, well-domed and attractive. Compact plants tolerate heat.

Gypsy

63days. Vigorous plants produce reliably even under heat and other stresses. Heads are smooth, well-domed and flavorful.

40 seeds each

OKRA



25. Green

Clemson Spineless 80

60 days. Dark green pods stay spineless and non-woody. High yields on 4-foot plants. Popular.

Jambalaya

50 days. Early maturing. High yields of shiny, dark green pods. Compact plants have small leaves and large, edible flowers.

40 seeds each

BEET



5. Gold

Golden Boy

60 days. New. Bright yellow, globe-shaped roots with high sugar contents. Light-green leaves grow upright, staying clean.

Yellow Sunrise

55 days. Stunning, golden roots are uniform in size and shape. Plants are upright and grow vigorously.

150 seeds each



6. Red

Bresko

60 days. New. A very dependable beet with great flavor. Uniform, smooth roots. Tops are glossy green, sturdy and upright.

Red Cloud

55 days. Beets are very sweet, smooth, and rich red with no zoning. Strong tops.

150 seeds each



7. Organic Red

Detroit Dark Red

65 days. Popular heirloom. Beets are globe-shaped, solid, dark red and flavorful. Dark green tops. Great for canning and storage.

Sweet Dakota Bliss

55 days. Sweet, burgundy beets with lush, delicious leaves. Tolerates stressful conditions. Bred in ND.

150 organic seeds each

CANTALOUPE



9. Open-Pollinated

Dakota Sisters

80 days. Deep-orange flesh is sweet, thick and aromatic. Developed in ND. Organic.

Minnesota Midget

68 days. Heirloom produces lots of early, mini cantaloupes. Sweet and delicious. Compact vines.

30 seeds each



10. Hybrid

Aphrodite

72 days. Salmon-colored flesh is firm and sweet. Big, 7-pound fruits ripen early. Resists mildew.

Avatar

72 days. Large, 8-pound melons with flavorful flesh high in sugars. Vines resist diseases. Early.

20 seeds each

WATERMELON



42. Red

Estrella

80 days. Uniform, 20-pound melons with exceptional quality. Vigorous vines. Early.

Sweet Dakota Rose

85 days. Sweet flesh with few seeds. Developed in ND. Melons grow 15 pounds. Reliable.

20 seeds each

CORN

OUT OF STOCK



T15. Early

***Latte* (syn)**

68 days. Reliable, early variety that germinates well in cool soils. Sweet, tender kernels. Bird-proof husks.

***Sweetness* (syn)**

68 days. An early corn of premium quality. The sturdy stalks produce well-filled ears of plump kernels.

75 TREATED seeds each



T16. Midseason

***Rosie* (shA)**

74 days. Beautiful ears with great eating quality. Bright kernels. Sturdy stalks.

***Xtra Tender 274A* (shA)**

74 days. Excellent early-season vigor. Outstanding eating quality and tenderness. Sturdy stalks.

75 TREATED seeds each



T17. Late

***Kate* (shA)**

77 days. Tender, glossy kernels have exceptional sweetness. Attractive ears.

***Troubadour XR* (shA)**

76 days. Large ears are filled to the tip and very tender. Stalks resist wind damage and rust.

75 TREATED seeds each

Super sweets (shA) are best sown in warm soil. Keep 300 feet away from synergistic (syn) or other types of corn to prevent hard kernels.

LETTUCE



22. Organic Romaine

Bluerock

65 days. New. Heads are large, upright and tolerate heat. Beautiful, blistered, medium-green leaves.

Coastal Star

57 days. Longtime favorite that tolerates heat. Large, heavy heads have good flavor.

125 organic seeds each



23. Org. Green Summer

Albachiara

52 days. New. Bright green heads with thick leaves. Sweet and crisp. Heads tolerate heat.

Nevada

55 days. Ruffled leaves are glossy green and crunchy. Thick, open heads tolerate heat.

125 organic seeds each



24. Org. Red Summer

Lovelock

48 days. Bright green leaves with red tips. Heads are filled with sweet, juicy leaves. Tolerates heat.

Magenta

48 days. Glossy, red-tinged leaves. Heads are flavorful with crunchy, green hearts. Tolerates heat.

125 organic seeds each

CARROT



11. Early Nantes

Narvik

65 days. Dark orange roots look beautiful and taste great. Tops are dark green and sturdy.

Naval

72 days. Long, smooth roots and strong, healthy tops. Matures early and tastes great fresh. Stores well.

400 seeds each



12. Main Crop Nantes

Jerada

80 days. High yields of uniform, straight, flavorful roots. Strong tops allow for easy harvesting.

Newhall

80 days. Large carrots with deep orange color and classic carrot flavor. Strong tops. Stores well.

400 seeds each



13. Red

Atomic Red

64 days. Crisp roots with mild flavor. High in lycopene. Its red color turns brilliant when cooked.

Rubypak

Productive and reliable. Resists bolting in spring. Roots brighten when cooked. Strong, healthy tops.

400 seeds each



14. Yellow

Gold Nugget

68 days. Deep yellow, uniform, 6-inch roots. Nantes type with small cores and good flavor. Tops are dark green, attractive and grow vigorously.

Mello Yellow

Bright yellow, 7-inch roots. Nantes type with exceptional flavor. Roots retain their color when cooked.

400 seeds each

PEA



26. Snap

Snak Hero

65 days. New (shown). Slender pods look like a bean but have the sweetness of a snap pea. Short, 18–24 inch vines. Award winner.

Sugar Ann

58 days. Very early and reliable. The 27-inch vines produce sweet, crisp pods. A proven performer.

160 seeds each

PEPPER



OUT OF STOCK

27. Large Bell

Revolution

72 days. Popular for its outstanding yields of big, 4-lobed fruits. Ripens early and tolerates cool weather.

Vanguard

73 days. Vigorous vines produce a continuous crop of extra-large, blocky fruits. A favorite variety among growers. Resists diseases.

24 seeds each

CUCUMBER



18. Slicing

Bristol

54 days. Slim, straight, high-quality fruits. Vigorous vines produce early and resist many diseases.

Diamondback

54 days. Heavy yields and excellent quality. Vines are vigorous. Fruits maintain well in the garden.

25 seeds each



19. Pickling

Avenger

55 days. Disease-resistant vines produce good yields of dark green, blocky fruits all summer and well into fall.

Expedition

55 days. Fruits are dark green, straight and blocky. Productive vines resist powdery mildew.

30 seeds each



20. Snack

Green Light

42 days. Vines produce high yields of 3-inch, seedless and smooth fruits. Very early. Award winner.

Mini-Me

45 days. Fruits are shiny, smooth and juicy. Productive vines do not require bees. Organic.

20 seeds each



21. Japanese

Sashimi

50 days. Fruits are dark, glossy and attractive. Sweet flavor and small seed cavities. Resists powdery mildew. Does not require bees.

Unagi

55 days. Glossy, smooth and straight cucumbers with superior quality. Does not require bees.

20 seeds each

TOMATO



OUT OF STOCK



40. Determinate

BHN 589

74 days. Great flavor. Big yields of crack-resistant fruits. Semi-determinate vines need support.

Rooster

65 days. Early yields of large tomatoes with exceptional taste. Rich red color. Resists diseases.

24 seeds each



OUT OF STOCK



41. Paste

Granadero

75 days. Prolific yields of blocky, fruits. Resists blossom and rot. Compact, indeterminate vines.

San Marzano

85 days. Classic paste tomato. Later than Roma but has larger fruits. Indeterminate vines.

24 seeds each

PUMPKIN



28. Small

Cannon Ball

100 days. Round, 5-pound fruits with burnt-orange color. Hard shells provide extended shelf life and are good for painting.

Field Trip

105 days. Popular for school tours. Six-pound pumpkins with deep orange color and long, sturdy handles. Semi-vining plants.

15 seeds each



T29. Midsize

Magic Lantern

115 days. Classic, 20-pound fruits are produced on semi-vine plants. Attractive, dark orange pumpkins. Vines resist powdery mildew.

Zeus

110 days. Dark orange, 18-pound, round pumpkins. Dark green, thick, sturdy handles. Strong, semi-vines resist powdery mildew.

15 seeds each. Magic Lantern is TREATED.



T30. Large

Adonis

115 days. New. Upright, barrel-shaped pumpkins weigh 25 to 40 pounds. Long, sturdy handles. Resists powdery mildew.

Aladdin

115 days. Vigorous, semi-full vines produce dark orange fruits that weigh 25 to 35 pounds. Upright/round shape. Resists mildew.

15 seeds each. Adonis is TREATED.



31. Gray

Blue Doll

110 days. Blocky, deeply ribbed pumpkins. Large vines produce heavy yields of 15-pound fruits. Sweet flesh for pies and soups.

Jarrahdale

95 days. Blue-gray fruits for eating and decoration. Eight-pound, ribbed fruits have sweet, thick flesh for cooking and stores well.

15 seeds each



32. Pink

Indian Doll

100 days. Flat, 18 to 30-pound fruits with deep ribs. Unique light pink-orange to medium orange. Good for pies and soups.

Porcelain Doll

100 days. Stunning, 18-pound fruits with deep ribs. Thick, orange flesh. Sold to support breast cancer awareness.

15 seeds each



T33. Warty

Scarface

105 days. New. Larger, 15 to 20-pound, dark orange fruits covered with warts. Upright shape with sturdy handles. Full vines.

Warty Goblin

105 days. Round to slightly tall, 8 to 20-pound fruits have a hard rind covered with green warts. Dark green, sturdy handles. Full vines.

15 seeds each. Warty Goblin is TREATED.

SUMMER SQUASH



34. Dark Zucchini

Black Coral

46 days. Heavy yields of sleek, dark fruits. Delicious flavor. Compact, open vines are easy to pick. Tolerates mildew.

Dunja

47 days. Disease-resistant vines produce lots of glossy fruits. The open plants are easy to harvest.

20 seeds each



35. Semi-Crookneck

Gentry

45 days. Prolific producer of smooth squash of high quality, even under stressful conditions. Harvest young for best flavor.

Tempest

54 days. Bred for gourmet cooking. Bright fruits have rich, nutty flavor and firm texture.

20 seeds each



36. Straightneck

Multipik

50 days. Vigorous bush plants produce amazing yields of bright yellow fruits.

Smooth Criminal

45 days. Fruits grow along a central, nearly spineless stem. Its unique habit allows for trellising and easy harvesting.

20 seeds each

WINTER SQUASH



37. Butternut

Granite

95 days. Premium quality. Uniform, 3-pound fruits with smooth, tan skin. Fruits have superior flavor and small cavities.

Havana

90 days. Uniform, blocky, midsize fruits. Thick necks with small seed cavities provide lots of nutty flesh.

15 seeds each



38. Kabocha

Speckled Hound

100 days. Fruits are orange with distinctive, green splotches. Yellow-orange flesh is thick, dense and dry. Vines resist diseases.

Sweet Mama

95 days. Bright yellow flesh tastes sweet and nutty with a dry texture. Semi-bush vines are productive.

15 seeds each



39. Spaghetti

Pinnacle

85 days. Medium-small fruits with a bright yellow rind. Slightly sweet, nutty flavor. Semi-bush vines produce high yields.

Primavera

93 days. Uniform, 3-pound fruits with attractive, canary-yellow skin. Semi-bush vines are productive.

15 seeds each

SUNFLOWER



43. Bicolor

Ring of Fire

75 days. An autumn favorite. Blazing red petals with golden tips. Minimal pollen. Grows 45 inches.

Shock-O-Lat

65 days. Chocolate blooms with golden tips. Tall, 66-inch plants produce lots of 5-inch, pollenless blooms for fall bouquets.

25 seeds each



44. Gold

Gold Rush

62 days. Classic golden-orange sunflower. Blooms early and abundantly. Pollenless. Ht.: 60 in.

Golden Ray

65 days. Instead of blooming on tips of branches, these flowers grow like gladiolus, all along a central stem. Pollenless. Ht.: 66 in.

25 seeds each



45. Bicolor Dwarf

Firecracker

55 days. Compact, branching plants produce a mass of fiery blooms. Pollenless. Grows 42 inches.

Little Becka

60 days. Six-inch, “rudbeckia-like” flowers with stunning red petals with golden tips. Pollenless. Branching, 36-inch plants.

25 seeds each



46. Orange Dwarf

Orange Hedge

65 days. Branching sunflower with 30-inch stems make a colorful hedge. Traditional orange petals with dark centers. Pollen for bees.

Orange Hobbit

55 days. Bushy plants filled with bright orange blooms with dark centers. Pollenless blooms are well-suited for small bouquets. Grows 24 inches.

25 seeds each



47. Yellow Dwarf

Lemon Cutie

75 days. Bushy, 3-foot plants are covered with bright, lemon-colored, semi-double blooms. Branching and pollenless. New award winner.

Lemon Pixie

60 days. Lemon-yellow petals and green disks. Branching plants grow 18–24 inches. For pots and flower borders. Pollenless.

25 seeds each

ZINNIA



48. Fruit Mixes

Berry Tart

75 days. A radiant blend of Cherry Queen, Coral Beauty, Meteor, and Scarlet Flame. Double and semi-double blooms. Height 36 in.

Fruity Beauty

75 days. A vibrant mix of Canary Bird, Coral Beauty and Orange King. Great for bouquets and attracting butterflies. Height 36 in.

50 seeds each

Example of Completed Evaluation Form

2023 Trial
Cantaloupe

Name: Jenny Gardener

County: Ward Date sown: May 30

Did you use a chemical fertilizer (for example, 10-10-10, Miracle-Gro)? Yes No

Did you use a pesticide for insects or diseases? Yes No
If yes, was it organic? Yes No

Which variety:	Apollo	Zeus	Same	Comments
Germinated best?			<input checked="" type="checkbox"/>	Both had near 100% germination.
Had healthier plants?		<input checked="" type="checkbox"/>		Apollo vines turned gray in fall.
Produced the first ripe melons?	<input checked="" type="checkbox"/>			Three days earlier than Zeus.
Produced higher yields?		<input checked="" type="checkbox"/>		Zeus produced about 10 melons; Apollo produced only 6.
Had more attractive melons?		<input checked="" type="checkbox"/>		Zeus had larger fruits and brighter orange flesh.
Tasted better?		<input checked="" type="checkbox"/>		Zeus was heavenly; Apollo was not quite as sweet.

Overall Performance Rating	Apollo	Zeus
Rate each variety on a scale of 1 to 10, with 1 = poor and 5 = good and 10 = excellent. <i>Don't give both a "10". Be very critical!</i>	5	9

Preference

Circle the variety you prefer. *Don't circle both—make a choice!* Apollo Zeus

Please state the reason(s) for your preference:
Zeus was outstanding. Good yields of large, sweet fruits. The vines looked healthy all summer. Apollo ripened early but its melons tasted bland.

Recommendation

Circle the varieties you recommend for North Dakota gardeners:

Apollo Zeus Both Neither

Please write any additional comments on back. They are very helpful!

Send to Tom Kalb, NDSU-Extension, 2718 Gateway Ave., Suite 304, Bismarck, ND 58503.
E-mail: tom.kalb@ndsu.edu. Thanks for your participation!

Example of Completed Order Form

Households may participate in up to eight trials. Place an “X” next to the trials you want. Place a “Sub” next to a few trials you would grow as

substitutes in case your “X” choices are not available. Online ordering is available www.ag.ndsu.edu/homegardenvarietytrials/.

- | | |
|--|--|
| <p>___ 1. Bean, Green Bush (Caprice, Homerun)</p> <p><u>X</u> 2. Bean, Org. Green Bush (Antigua, Red Tail)</p> <p><u>Sub</u> 3. Bean, Yellow Bush (Custard, Gold Rush)</p> <p>___ 4. Bean, Purple Pole (Carminat, Purple Podded)</p> <p>___ 5. Beet, Gold (Golden Boy, Yellow Sunrise)</p> <p>___ 6. Beet, Red (Bresko, Red Cloud)</p> <p>___ 7. Beet, Org. Red (Detroit D.R., Swt. Dak. Bliss)</p> <p>___ 8. Broccoli (Green Magic, Gypsy)</p> <p>___ 9. Cantaloupe, O.P. (Dakota Sisters, MN Midget)</p> <p>___ 10. Cantaloupe, Hybrid (Aphrodite, Avatar)</p> <p><u>X</u> 11. Carrot, Early Nantes (Narvik, Naval)</p> <p>___ 12. Carrot, Large Nantes (Jerada, Newhall)</p> <p>___ 13. Carrot, Red (Atomic Red, Rubypak)</p> <p>___ 14. Carrot, Yellow (Gold Nugget, Mello Yellow)</p> <p>___ T15. Corn, Early Synergistic (Latte, Sweetness)</p> <p>___ T16. Corn, Mid. Super Swt (Rosie, XT 274A)</p> <p><u>X</u> T17. Corn, Late Super Swt (Kate, Troubadour)</p> <p><u>X</u> 18. Cucumber, Slicing (Bristol, Diamondback)</p> <p>___ 19. Cucumber, Pickling (Avenger, Expedition)</p> <p>___ 20. Cucumber, Snack (Green Light, Mini-Me)</p> <p><u>Sub</u> 21. Cucumber, Japanese (Sashimi, Unagi)</p> <p>___ 22. Lettuce, Romaine (Bluerock, Coastal Star)</p> <p>___ 23. Lettuce, Org. Grn Sum. C. (Albachiara, Nevada)</p> <p><u>X</u> 24. Lettuce, Org. Red Sum. C. (Lovelock, Magenta)</p> <p>___ 25. Okra, Green (Clemson Sp. 80, Jambalaya)</p> | <p>___ 26. Pea, Snap (Snak Hero, Sugar Ann)</p> <p>___ 27. Pepper, Large Bell (Revolution, Vanguard)</p> <p>___ 28. Pumpkin, Small (Cannon Ball, Field Trip)</p> <p><u>X</u> T29. Pumpkin, Midsize (Magic Lantern, Zeus) <i>(treated)</i></p> <p>___ T30. Pumpkin, Large (Adonis, Aladdin) <i>(treated)</i></p> <p><u>Sub</u> 31. Pumpkin, Gray (Blue Doll, Jarrahdale)</p> <p>___ 32. Pumpkin, Pink (Indian Doll, Porcelain Doll)</p> <p>___ T33. Pumpkin, Warty (Scarface, Warty Goblin) <i>(treated)</i></p> <p>___ 34. Squash, Dark Zucchini (Black Coral, Dunja)</p> <p>___ 35. Squash, Semi-Crookneck (Gentry, Tempest)</p> <p>___ 36. Squash, Straightneck (Multipik, Smooth Criminal)</p> <p>___ 37. Squash, Butternut (Granite, Havana)</p> <p>___ 38. Squash, Kabocha (Speckled Hound, Sweet Mama)</p> <p>___ 39. Squash, Spaghetti (Pinnacle, Primavera)</p> <p>___ 40. Tomato, Determinate (BHN 589, Roadster)</p> <p>___ 41. Tomato, Paste (Granadero, San Marzano)</p> <p>___ 42. Watermelon, Midsize (Estrella, Swt. Dak. Rose)</p> <p><u>X</u> 43. Sunflower, Bicolor (Ring of Fire, Shock-O-Lat)</p> <p>___ 44. Sunflower, Gold (Gold Rush, Golden Ray)</p> <p>___ 45. Sunflower, Bicolor Dwf (Firecracker, Little Becka)</p> <p>___ 46. Sunflower, Orange Dwf (Or. Hedge, Or. Hobbit)</p> <p>___ 47. Sunflower, Yell. Dwf (Lemon Cutie, Lemon Pixie)</p> <p><u>X</u> 48. Zinnia, Fruit Mixes (Berry Tart, Fruity Beauty)</p> |
|--|--|

(corn seed is treated)

<p>PLEDGE</p> <p>I promise to manage my trials in a responsible manner. I will grow the seeds, evaluate the varieties and submit my results promptly.</p> <p>Signature: <u>Jenny Gardener</u></p> <p>Name: <u>Jenny Gardener</u></p> <p>Address: <u>555 Meadowlark Lane</u> <u>Paradise, ND 58555</u></p> <p>Email: <u>jennygardener@yahoo.com</u></p>	<p>PAYMENT</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td>Seed trials (\$1.50 each)</td> <td style="text-align: right;"><u>8</u></td> </tr> <tr> <td>Subtotal</td> <td style="text-align: right;"><u>12.00</u></td> </tr> <tr> <td>Shipping</td> <td style="text-align: right;"><u>5.50</u></td> </tr> <tr> <td>Total</td> <td style="text-align: right;"><u>17.50</u></td> </tr> </table> <p>Checks should be addressed to “NDSU” and mailed to: NDSU Extension; Attn: Tom Kalb; 2718 Gateway Ave., Suite 304; Bismarck, ND 58503. You may order online at www.ag.ndsu.edu/homegardenvarietytrials/. Shipping costs may be waived if seeds are picked up at the Gateway Extension office. You will be contacted when seeds are ready to be picked up.</p>	Seed trials (\$1.50 each)	<u>8</u>	Subtotal	<u>12.00</u>	Shipping	<u>5.50</u>	Total	<u>17.50</u>
Seed trials (\$1.50 each)	<u>8</u>								
Subtotal	<u>12.00</u>								
Shipping	<u>5.50</u>								
Total	<u>17.50</u>								

Credits

This project is conducted for educational purposes only. No profits are made from this program.

The descriptions of varieties in this catalog were obtained from catalogs of numerous companies including Burpee, Fedco, Harris, High Mowing, Johnny's, Jordan, Jung, Osborne, Prairie Road Organic, Seedway, Stokes, Sunflower Selections, Territorial, Urban Farmer, Veseys, and Whaley. These descriptions are used for educational purposes only.

Photos in this document are adapted from photos made available under Creative Commons licenses specified by the photographer, all allowing for adaptation, modification or building upon. Prefixes of photos are www.flickr.com/photos/, unless noted otherwise.

Cover: Larisha Koshkina from Pixabay;
Trial 1. [gravity_grave, .../laurenp/5042670724/](https://www.flickr.com/photos/laurenp/5042670724/); **2.** [danbruell, .../mr-morshee/28679579807/](https://www.flickr.com/photos/mr-morshee/28679579807/); **3.** [Alice Henneman.../alicehenneman/](https://www.flickr.com/photos/alicehenneman/)

[6120192853/](https://www.flickr.com/photos/muyyum/4936450828/); **4.** [Larry, .../muyyum/4936450828/](https://www.flickr.com/photos/muyyum/4936450828/); **5.** [Niccie King, .../whatniccieate/9428003125/](https://www.flickr.com/photos/whatniccieate/9428003125/); **6.** [woodleywonderworks, .../wwworks/7670932230/](https://www.flickr.com/photos/woodleywonderworks/7670932230/); **7.** [Alice Henneman, .../alicehenneman/5873961502/](https://www.flickr.com/photos/alicehenneman/5873961502/); **8.** [Nataly from Pixabay](https://www.flickr.com/photos/natalyfrompixabay/); **9.** [Hans Braxmeier from Pixabay](https://www.flickr.com/photos/hansbraxmeier/); **10.** [Michelle Martin from Pixabay](https://www.flickr.com/photos/michellemartin/); **11.** [congerdesign from Pixabay](https://www.flickr.com/photos/congerdesign/); **12.** [jacqueline macou from Pixabay](https://www.flickr.com/photos/jacquelinemacou/); **13.** [rnourse01, .../rnourse/6818183683/](https://www.flickr.com/photos/rnourse01/); **14.** [Jeff King, .../gnikrj/537536145/](https://www.flickr.com/photos/jeffking/); **15.** [liz west, .../calliope/7564086796/](https://www.flickr.com/photos/lizwest/); **16.** [shannonpatrick17, .../shannonpatrick17/2741977165/](https://www.flickr.com/photos/shannonpatrick17/); **17.** All-America Selections; **18.** National Garden Bureau; **19.** All-America Selections; **20.** All-America Selections; **21.** [Timothy Takemoto, .../nihonbunka/12878137/](https://www.flickr.com/photos/timothytakemoto/); **22.** [Mercedes, .../lawrencefarmersmarket/2529145266/](https://www.flickr.com/photos/mercedeslawrence/); **23.** [Dwight Sipler, .../photofarmer/4988502522/](https://www.flickr.com/photos/dwightsipler/); **24.** [B, .../11561957@N06/18349858178/](https://www.flickr.com/photos/b/); **25.** [David Hoffman, /universalpops/6528971651/](https://www.flickr.com/photos/davidhoffman/); **26.** All-America Selections; **27.** [arzyreed, .../19779889@N00/52249844570/](https://www.flickr.com/photos/arzyreed/); **28.** [udsoncrafted from](https://www.flickr.com/photos/udsoncrafted/)

[Pixabay](https://www.flickr.com/photos/zakvta/); **29.** [ZakVTA, .../isaachsieh/2974054622/](https://www.flickr.com/photos/isaachsieh/); **30.** [jjj56cp, .../25171569@N02/10054547606/](https://www.flickr.com/photos/jjj56cp/); **31.** [Emily, .../ebarney/8149665761/](https://www.flickr.com/photos/emilyebarney/); **32.** [Mizzou CAFNR, .../cafnr/15278083487/](https://www.flickr.com/photos/mizzoucafnr/); **33.** [Howard J, .../howardjtj/29344677062/](https://www.flickr.com/photos/howardjtj/); **34.** [ilovebutter, .../jdickeert/852904568/](https://www.flickr.com/photos/ilovebutter/); **35.** [Phil Lees, .../lastappetite/2246573136/](https://www.flickr.com/photos/phillees/); **36.** [Mike Mozart, .../jeepersmedia/15111666126/](https://www.flickr.com/photos/mikemozart/); **37.** [David Mark from Pixabay](https://www.flickr.com/photos/davidmark/); **38.** All-America Selections; **39.** [Timothy Valentine, .../el_ramon/51177043230/](https://www.flickr.com/photos/timothyvalentine/); **40.** All-America Selections; **41.** [Etienne GONTIER from Pixabay](https://www.flickr.com/photos/gontter/); **42.** [pasja1000 from Pixabay](https://www.flickr.com/photos/pasja1000/); **43.** [Jo Zimny Photos, .../joeyz51/50187011037/](https://www.flickr.com/photos/joeyz51/); **44.** [Ulrike Leone from Pixabay](https://www.flickr.com/photos/ulrikeleone/); **45.** [Swallowtail Garden Seeds, .../swallowtailgardenseeds/36472461145/](https://www.flickr.com/photos/swallowtailgarden/); **46.** [Art Aspirations, .../23471014@N03/3770345292/](https://www.flickr.com/photos/artaspirations/); **47.** [Uschi Dugulin from Pixabay](https://www.flickr.com/photos/uschidugulin/); **48.** [Martin LaBar, .../martinlabar/48692804886/](https://www.flickr.com/photos/martinlabar/).

Contact Us

Please contact:
Thomas Kalb, Ph.D.
North Dakota State University
2718 Gateway Ave., Suite 304
Bismarck, ND 58503
(701) 328-9722
tom.kalb@ndsu.edu

More information is also available
at <https://www.ag.ndsu.edu/homegardenvarietytrials/>.

NDSU | EXTENSION

May 11, 2023. Second edition.

North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to: Vice Provost for Faculty and Equity, Old Main 201, 701.231.7708 or Title IX/ADA Coordinator, Old Main 102, 701.231.6409.