

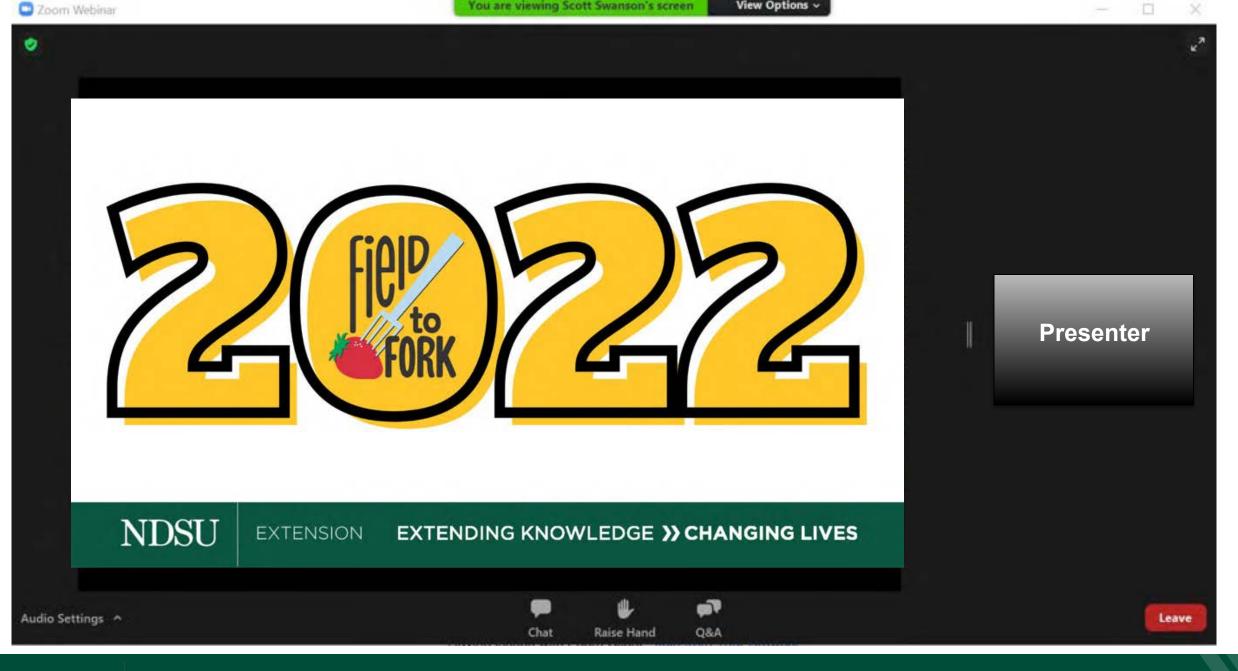
Upcoming Webinars

March 2

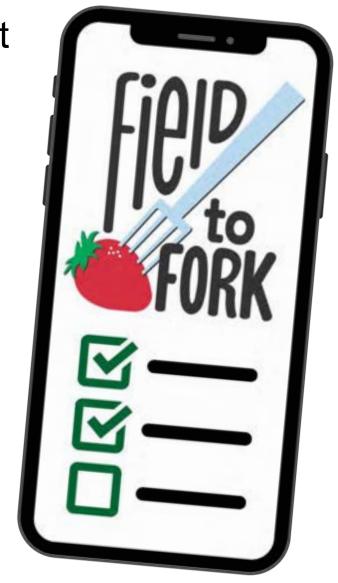
Good Gardening Practices: Safe and Healthy Produce Barbara Ingham, professor and Extension food safety specialist, University of Wisconsin-Madison

March 9

Honey: Safety and Use Shannon Coleman, assistant professor and Extension food safety specialist, Iowa State University



- Please complete the short online survey that will be emailed to you after today's webinar. It will take just a couple minutes!
- Be sure to sign up for an opportunity to win a prize in the drawing. After submitting the survey, a form to fill out with your name/address will appear.
- Acknowledgement: This project was supported by the U.S. Department of Agriculture's (USDA) Agricultural Marketing Service through AM190100XXXG028. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the USDA.





Tom Kalb, Extension horticulturist, NDSU





Raised Beds

- Aesthetic
- Easy on the back
- No compaction
- Great drainage
- Warms up quickly
- Fewer weeds



Pressure-Treated Lumber

Alkaline Copper Quaternary (ACQ)

- Recommended as a construction material for vegetable gardens.
- Contains no chemicals considered toxic by the EPA.

Environmental Soil Issues: Garden Use of Treated Lumber, Penn State University. 2002.



Other Lumber

Cedar

Expensive

Untreated pine

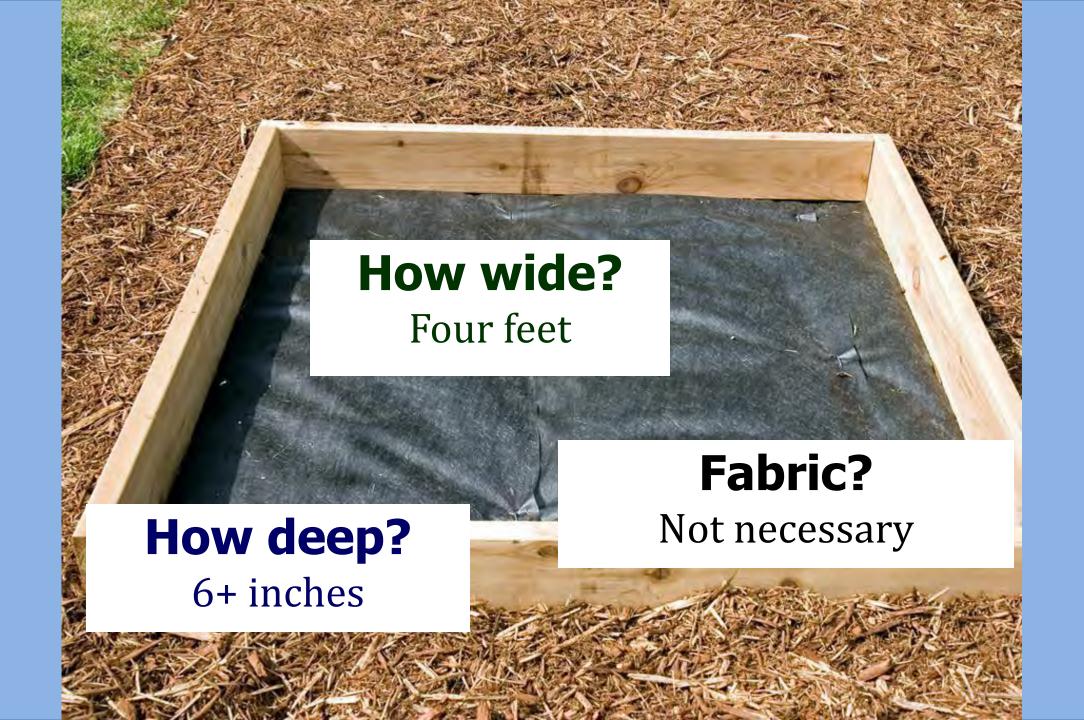
Short life

Railroad ties

Toxic creosote







Tip
2

Great Soil

- **1/3** Topsoil
- 1/3 Sand
- 1/3 Organic matter





Manure?

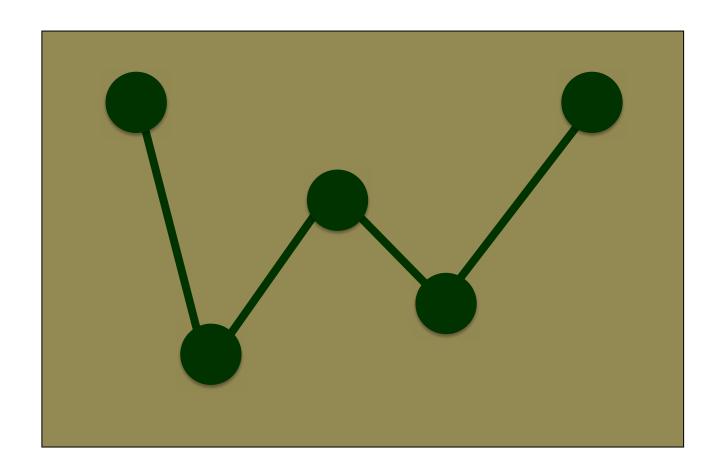
- Use composted manure
- Never use fresh manure after the garden is planted
- Thoroughly wash raw vegetables before eating





Soil Testing

- Get a soil test
- **\$19.50** investment
- Go 4–6 inches deep







Great Varieties

- Early maturing (100 days or less)
- High yields
- Resist diseases
- Outstanding flavor
- Locally adapted



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Accessibility

NDSU) Home Garden Variety Trials

Home Garden Variety Trials

Our Project

Results

Contact Us

North Dakota Home Garden Variety Trials

To identify the best varieties for gardeners, it makes sense to test them in gardens.



Click here to receive the 2022 Seed Catalog

Looking Ahead to Spring 2022!

North Dakota State University works with volunteers every spring to identify the best varieties for gardeners. These trials have been conducted since 2008 with over 200 families participating every year.

The results from our 2021 trials are available.

The list of recommended vegetable cultivars for North Dakota in 2022 has been updated.

All gardeners in North Dakota are eligible to participate. We also work with gardeners in nearby counties of



www.ag.ndsu.edu/ homegardenvarietytrials

Vegetable Cultivars for North Dakota

The finest cultivars will lead to the finest gardens, Nords Dahota State University and its seam of over 200 gardeness evaluate promising cultivary every summer. The following culticars have excelled in these and: other trials in the Midwest.

Selecting an outstanding cultivar can lead to a bountiful garden.

ASPARAGUS, Jersey Giant, Jersey Knight, Joney Supreme, Millennium, Porple Passion.

BUAN. Book: Annibiliane, Antigua, Bush Blue Lake 274, Crockett, Derby, Espada, Inspiration, Inde H. Lewis, Maribel, Pilot, Provider, Purple Queen Improved, Roral Burgands; Serengeri, Steller. Dryr Arlkara Yellow, Great Northern, Lima: Fonflook 243, Fanfand. Poles Fortes, Monte Cristo, Monte Gusso, Orient Wonder, Seychelles, Stringless Blue Lake S-7, Soybeare Freez, Toliya. Winz Bonslins, Canon, Gold Rash.

BERT, Red Bully Blood, Criedra, Derroit Derk Red, Fagle, Merlin, Red Acc, Sweet Dators Bliss. Gold: Boldor, Burper's Golden, Touchning Gold.

BROCCOLL Green Magic, Packman.

CARRACO., Chinese: Blucs. Head: Farly Sersey Waltefield, Golden Aire, Ruby Perfection, Stonebusal.

CARROT: Oranger Baltimony, Below, Candroux, Caput, Goldfinger, Hercales, Impestror 58, Lagson, Molum, Napoli, Naval, Nagawia, New Karoda, Scufet Naures. Other Childia Yellow, Purple Hare.

CATELIFEDWER, Amazing, Cheklar, Snow Carsey, Violet Queen.

CORN. Super Sweet: Assuran Drawn, Anthers XR, Caraltor, Enchannel, Xtra-Tender 274A. Sugary enhanced: Anthrona, Bedacious RM, Dyloctable, Luscinus, Peaches & Cream, Sugar Bans, Tempumon. Symergistics: MELON. Muskmelon: Aplandos, Affana, Allone, Cappu Ioc, Honey Scient, Sweetness-Omamoural: Fiesta. Popcome Dalors Black.

CUCUMBER, Picklings Albi, Galepin, Euroba, Homemade Pickles, \$1-19 Little Leaf. SWeinger Dietur H. Dien, Funfase, General Lee, Green Liebt, Mercury, Munches, Orient Expoess II, Racoway, Raider, Solad Booh, Silver Slicer, Straight Flight, Summer Dance, Swort Shee, Sweet Soccess, Taste Green.

EGGPLANT, Black Beauty, Dusky, Fairy Tale, Milliomine, Orient Express.

GREENS. Hos Tur Tir, Kox, by Chox, Kornimuna, Mix America, Miruna, Mei Cling-Choi, Osaka Porple, Red Guezt, Tarsoi, Tendengseen, Yokso Bekana, Vegerable American, Win Win Clear.

KALE, Black Magic, Daveling Bloc, Red. Horsing, Vares, White Rossian, Winyobox.

KOUR RARL Early White Victor, Kolibel. Kossik, Wiener Improved.

LETTUCE Leaf: Bergan's Green, Cervanek, Door Yongsic, Medior, New Red Fire, Red Sub, Red Salad Bowl, Red Velver, Royal Oaklesf, Slobolt, Starfighter, Tropicara, Butterbead: Alkindon, Borreremands, Nancy, Red Cross, Skiphos, Sweet Valentine. Gripbook Magerita. Mutr. Nevada, Publis, Sierra: Romalor: Crisp Mint, Fusion, Green Forcst, Newhorn, Sturbank, Luffer Dark Red Lofes Rossa.

Gridden, Solstice, Superius. Specialty: Arms, Earli-Dev; Puriport, San Juin.

OKRA: Candle Fire, Clemon Spineless ONION. Alta Crais, Cardy, Copea, Sweet Sandwich, Walls Walls.

PEA. Shell: Early From, Gover Arrow, Knight, Lincoln, Little Marvel, Miesten. Improved, Wands, Snape Sugar Ann, Super Sugar Stup: Snow: Avalanche, Ovegon Girre, Oregon Sugar Pod II, Suner Horizon.

PEPPER. Bell: Bell Box, Early Sensation. Jupiter, New Acr., North Star, Orange Blanc. Frying/Rousting: Carriero, Florringo. Giant Marconi, Gepve. Hot: Cheyenne, Flarly Julipseno, Garden Salva, Hot Physer Lorsens, Hongarius Her Wax, Manschi, Mocho Nacho, Tilason.

POTATO. Dark Red Norland, Kenneley, Peter Wilcox, Purple Viking, Red Gold, Sanna, Superior, Yukon Gorn, Yokon Gold.

PUMPICIN: Gooking: Small Supar. Cindentla's Carrage. Jack-o'-lantern: Automa Gold, Bellamic, Grouns, Early Dukota Howden, Early Guot, Early King, Gladaroe, Howden, Howlen Baggir, Large Marge, Magic Lantern, Neon, Orange Smoothie, Warty Goblin. Glant: Big Moore, Dilly Adastic Goos, Polar Beat. Ornamene (Mare, Caoperna, Jack Be Little, Jarrabdile.

RADISH. Amethor, Barchus, Chompson. Cherry Belle, Easter Figg II, French Breakfast, Pretty in Pirk, Red Head, Rower, Rosanne, Sona, White leade.

BLTABAGA: American Purple Top. SPINACIL Area, Bloomslafe Long.

Standing, Emperor, Escalade, Gazelle, Koolaham, Linad, Mrlods, Olympia, Red. Kinner, Space, SV2146VB, Tyer.

SQUASIL SUMMER. Grockweck:

Gentry, Soudance: Scalloge Flying Soucer, Surbons. Smilghmeck: Forum, Multipile. Slick Pik YS 26, Zeplen Zocchini) Cashflow, Devers, Europick Gold, Gold Bush, Green Machine, Green Tiger, Perfoad, Portufino, Raven, Spincless Beasty, Yellowfin.

SQUARIL WINTER: Acom: Assume Delight, Black Bellom, Carnival, Table Ave. Tible King. Butterrapy Boobon, Burgans. Burecasse: Burrerbuly, Butterscoots, Early

Burremut, Walthum: Delicate Cornell's Bosh. Deficate, Zeppelin. Habbard: Blue Magic, Red Kirri, Kabocha: Sondrine, Sweet Mann.

SWEET POTATO, Bosongard.

SWISS CHARD. Bul, Beglu Lights. Charbell, Flamings, Improved Knishov; Lucidas, Chiole, Peppermint, Khobarb.

TOMATO. Cherry: John, SunSugat, Supervisor 100, Sugar Baby Gal, Yellow Pour Fresh market: Hig Heef, Bush Early Gal, Celebrin, Early Gid, Golash, Mountain Fresh Plus. Paster Roma VF, Viva Italia. Heidowa: Brodywise, Cherokee Purple, Steped German, Supior, Wisconsin 55.

TURNIR Hakursi, Purple Top White Globe, Tokno Cmis.

WATERMELON, Seeded Print Yellow, Surgeia, Stargacore, Sugar Blabe, Sweet Dalcora Rose, Yellow Dolf. Seedless: Millionaire.

Seed Sources

The following is a rample of companies offering seeds. This list is provided for educational purposes only; no discretisation is introded and no endomenous is implied. Many offer free send entalogs.

A.P. Whiley food, www.awfuley.com. Bakes Crock Seed, www.rammersh.com. Durper Soul, www.burper.com. Finlers Sends, www.fishosocods.com. Gurney's Sord and Nursery, www.gurneys.com. Hants Soods, www.harmscods.com. High Moving Scots, www.higheoverspords.com. HPS Seed, www.lepsocod.combalance's Selected Sends, wavejobiogram do com-Jondan Scody, www.ponlassendy.com. Jung Sood, www.jungword.com. Orlivers: Seeds, www.informmord.com. Paumer Giaden Sreds, www.capensends.com-Practic Road Org. Sood, www.pracacounterpolic.co. Sold Stern Exchange, were enchanterage. Stokisms South, www.mikinsenoofs.org. Strikes Sends, sewermkennels nom-Tentronal Soud, www.memonahood.com True Leaf Minket Seed, www.madealistarket.com.

Viney's South, warwaresessions.

All gardeners are invited to join our team of backyard researchers. Go to www. ag.ndsu.edu/ homegarden varietytrials/

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EXTENSION



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Tomato Vine Types

Determinate

- Compact vines
- No pruning required; trellising optional
- Early and concentrated yields

Indeterminate

- Tall, climbing vines
- Requires pruning and trellising
- Larger, more flavorful fruit over an extended period

Popular Tomato Varieties

- Early Girl (I) early
- Celebrity (D) reliable
- Big Beef (I) beefsteak
- Mountain Fresh Plus (D) fresh market
- Supersweet 100 (I) cherry
- Roma (D) canning















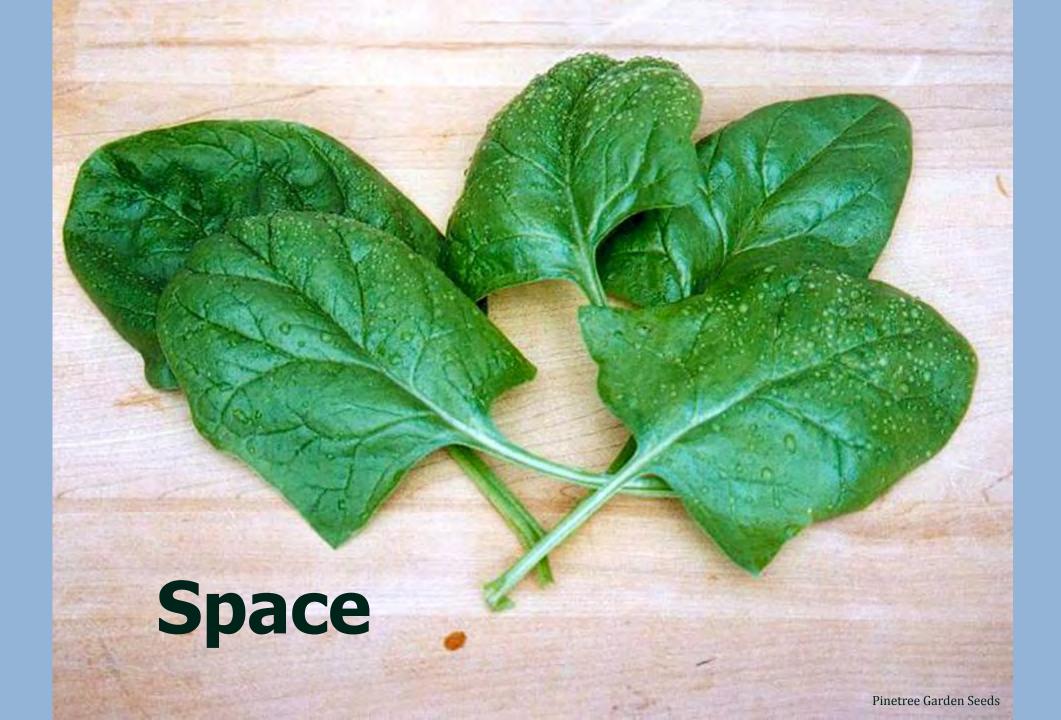
























Watering

- Avoid overhead irrigation
- Irrigate in morning
- Water deeply, not frequently
- Mulch





Prevent Pests

- Physical barriers
- Control weeds
- Remove crop residue
- Avoid routine spraying







Natural Insecticides

- Bacillus thuringiensis (Bt)
- Spinosad
- Neem
- Insecticidal soap

















Prevent Diseases

- Disease-resistant varieties
- Space plants properly
- Avoid overhead irrigation
- Preventative sprays
 - Chlorothalonil, copper, sulfur
- Clean up the garden

















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