



# Yankton County Conservation District Newsletter

## What's NEW?!

### District Board

Bob Diede-----Chairman  
Dennis Klimisch-----Board Member  
Judy Merchen-----Board Member  
Allen Sinclair-----Board Member  
Gary Sylliaasen-----Board Member

### District Employee

Sarah Ruml -----District Manager

### NRCS Staff

Dan Mehlhaf -----District Conservationist  
Megan Brown-----Soil Conservationist  
Stephanie Kuhlman---Soil Conservationist  
Kenton Asao-----Wetland Specialist

Hi, all! My name is Stephanie Kuhlman. I am the newest Soil Conservationist in the Yankton County NRCS office!

I grew up on a farm in southwest Minnesota, where my dad raised corn and soybeans. After I graduated from high school, I continued to NDSU where I majored in General Agriculture with a minor in Human Development and Family Science. In the summer of 2020, I did an internship with NDSU Extension – Richland County. I fell in love with being in the field, working with soil, and land stewardship.

In July of this year, my sister, our adorable pit bull, and I moved to northeastern Nebraska. We are excited for all the fun sights and hiking available in the region. I strive to be a lifelong learner and I am looking forward to all the learning opportunities I will have while working with SD NRCS.



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## Hand Plant Order Forms for 2022

Check out our website, email us, or stop by the office to get a copy of the 2022 Hand Plant Order Form. The order and cancellation deadline is January 31<sup>st</sup>. Please include a down payment of 50% of your order total when you submit your order.

## Newsletter Via Email Option

We are now offering the option to receive the quarterly newsletters via email. Please email your first and last name to [yanktoncd@sdconservation.net](mailto:yanktoncd@sdconservation.net) and include whether you wish to receive newsletters via email AND mail, or only through email.

## 2022 District Winter/ Spring Prices & Services

### Hand Plants

(available to order  
September-January only)

### **Bareroot Hardwoods & Conifers**

\$81.25+ tax/ bundle of 25

### **Tall**

Price dependent on species and height

### **Potted Hardwoods & Conifers**

Price dependent on species and height

### **Berries, Vines, Perennials**

\$6-10 each

### **Fruit & Ornamental Trees**

\$200+/bundle of 5 depending on the  
species.

### Tree Planting

\$7.00/rod row for shrubs

\$6.50/rod row for trees

(Minimum of \$350.00)

### Cultivation/Chemical

#### Application

\$300.00/acre (includes chemical)

(Minimum of \$300.00)

### Grass Drilling

\$30.00/acre

(10 acre minimum)

### Pheasants Forever Drill Rental

\$20.00/day for Members

\$80.00/day for Non-Members

### Products:

#### **Live Traps**

\$61.77 w/tax - 12" x 36" long

\$67.10 w/tax - 16" x 36" long



#### **Fabric Staples**

10¢ + tax each

#### **Fabric**

60¢ + tax - 3' x 3' sheets

#### **Tree Tubes**

\$3.50 + tax - 36" tall

\$4.50 + tax - 48" tall

## For Students

### Annual Resource Conservation Speech Contest 2022 Topic – "Rivers and Streams Benefit South Dakota"

\$2,300 in scholarships awarded by • East River Electric Power Cooperative •  
Rushmore Electric Power Cooperative • South Dakota Rural Electric Association

State Champion: \$1,100, Second Place: \$750, Third Place: \$450

Open to all South Dakota high school students (9<sup>th</sup>-12<sup>th</sup>) • Speeches to be 5 minutes

The local conservation district contest will take place before March 26<sup>th</sup>. All  
submissions are due by February 26<sup>th</sup>. Two winners will be eligible to advance to  
their respective area contest. Contest times and locations to be determined.

Contact Sarah at the YCCD Office or visit the DANR website for the Contest Rules,  
Entry Blank, and other information.

[danr.sd.gov/Conservation/Conservation/ResourceConservationSpeech](http://danr.sd.gov/Conservation/Conservation/ResourceConservationSpeech)

## Plant Spotlight

### **Basswood, Also known as the American Linden**

**Scientific Name: Tilia Americana**

#### The Facts:

- 20 Year Height: 30-35ft; Height at Maturity: 50-70 ft
- Moderate growth rate of 12-18" each year
- Grows best in moist, well-drained, fertile loam and clay soils
- Appearance:
  - Grey to brown bark split into long, narrow, flat-topped scaley ridges
  - Produces fragrant creamy white to pale yellow flowers that are enjoyed by pollinators.
  - Non-edible pea-sized nutlet 1/8 -1/4" in size, thick shelled, no ribs, brown or tan when mature.
  - Simple, broad, heart shaped leaves with coarsely serrated edges and leathery tufts along veins and midrib. Green on top, yellow underneath, turning to all yellow in fall. 4-8" in length, alternate
- Often used in farmstead windbreaks and riparian plantings
- Has an intermediate tolerance to flooding, Not drought resistant. May develop leaf scorch under drought conditions.
- Not suited for small landscapes or year round tree tubes
- Few pests or diseases
- American Linden and cultivator Frontyard American Linden available for purchase though YCCD

(more information can be found in  
*Trees and Shrubs for the Northern Great  
Plains Landscape* by NDSU Extension  
Service and *Trees! An Illustrated Field  
Guide* by John Ball)



# NRCS – CRP

CRP is a land conservation program administered by the Farm Service Agency (FSA). In exchange for a yearly rental payment, farmers enrolled in the program agree to remove environmentally sensitive land from agricultural production and plant species that will improve environmental health and quality. Contracts for land enrolled in CRP are from 10 to 15 years in length. The long-term goal of the program is to re-establish valuable land cover to help improve water quality, prevent soil erosion, and reduce loss of wildlife habitat.

Two of the most popular CRP practices used in Yankton County are CP5A (Field Windbreak Establishment) and CP16A (Shelterbelt Establishment). Field Windbreak Establishment is used to reduce wind erosion and for crop protection. Shelterbelt Establishment are established to protect farmsteads and livestock.

Qualifications:

- Shelterbelts must be planted in cropland and have cropping history from 2012-2017
- Owner must have owned or operated the land for at least 12 months and meet AGI requirements
- Signing and Practice incentives may apply
- Site preparation must be started the prior fall

Cost share is available through your local FSA office. Contact your local USDA office to begin enrollment.

## John Ball Articles By Dr. John Ball

*(more articles can be found on our website)*



### Treatments to Begin Now

The only treatment now is repairing snow damage to young trees. I receive a picture of this young maple that had a broken limb from the heavy snow that fell in the Black Hills. I have received calls from other tree owners wondering what to do about the broken branches.

A torn limb on a young tree can be cleanly cut away and any loosened bark removed. A small stem on a healthy tree can quickly wall off any decay and the long-term impact will be minimal. There is no need to apply pruning paint or wound dressing to any cut surface. It will not reduce decay and can even aid in increasing decay.



### Another “What is this plant?”

This is chokeberry, *Aronia melanocarpa*, a commonly planted shrub that is noted for its spring white flowers and deep red autumn foliage color. While the autumn color can be very attractive, it also tends to color late so sometimes an early frost browns the leaves before the color change. The plant is also known for its very sour fruit – hence the name chokeberry – that remains hanging on the shrub late into the year as even the birds do not seem to like them much (at least until the fruit goes through several freezes and thaws). However, the fruit does make a nice jam and juice.



# John Ball Articles (continued)

## Declining Spruce in Edmunds County



This is a picture of some young (about 5 years old) declining spruce. Spruce suffer many problems, both insects and diseases, but these are not the only challenges to growing spruce.

Colorado spruce is more site-demanding than most people realize. It will persist on poor sites but not thrive. I frequently am called to look at stunted spruce – 20 year old trees that are less than 10 feet tall. The typical question is “What can we spray?” but pesticides are not the common solution.

The prerequisite for good performance for Colorado spruce is a good site. The trees have three conditions that must be met: 1) full sun, 2) good air flow around the canopy and 3) excellent soil drainage.

While people are planting the spruce on wider spacing to ensure sun and air movement (16 feet from trunk to trunk is the minimum), we often forget about the soils.

Compacted or poorly drained soils will result in root decline (these trees are on the down side of a septic drain field). Poor root development means stunted trees that are susceptible to pests. The best means to avoid future pest problems and have thriving spruce is to watch the spacing and plant the trees on moist, but welldrained soils. The species is more drought tolerant than other spruce but a good rain (an inch or so) every week or two between April and July are also key to performance.

## \$\$ Savings in Trees and Shelterbelts \$\$

For homeowners in rural areas, well-designed windbreaks can cut home heating costs by 10 to 25 percent. Up to one-third of the heat loss from a building is caused by air leakage through cracks and other openings. High winds can force cold air through cracks around poorly fitting windows or frequently opened doors, aggravating the heat loss from unprotected buildings. Windbreaks reduce the force of the wind on the exterior surfaces of buildings and thus the amount of cold air that enters the home.

About 11 percent of the America’s energy use goes to heating and cooling of residential homes. Nearly two-thirds of residential energy use is for heating (53 percent) and cooling (12 percent). Individual savings depend on local site and climatic conditions, the building’s construction quality, an individual’s living habits, and the design and condition of the windbreak.

Windbreaks or shelterbelts are barriers used to reduce wind speed and usually consist of trees, shrubs, or a combination. For the greatest protection, the windbreak needs to be oriented perpendicular to the troublesome winds. The reduction in wind speed behind a windbreak modifies the environmental conditions in this sheltered zone. The sheltered zone extends as far as ten to fifteen times the height of the windbreak downwind from the windbreak. The greatest wind reduction occurs between two to five times the height of the windbreak downwind. For maximum wind protection, the windbreak needs to be dense and tall.

Home heating savings are not the only energy benefit from windbreaks. Windbreaks are very effective in controlling drifting snow. By strategically locating windbreaks upwind of roads and highways, blowing snow can be reduced, resulting in less snow accumulation and ice development on roads. This results in less fuel being used to remove snow from highways.

This windbreak application is also known as a living snow fence. In a State like Minnesota, where the State spends an average of \$100 million per year in snow removal, this can be a significant savings. Minnesota performed a cost-benefit analysis of living snow fences and found that for every dollar spent on a living snow fence, there was a \$17 return. This included not only the savings in fuel but also less economic disruption resulting from closed roads. The living snow fences also can save lives by improving driving conditions during the winter.

Windbreaks also:

- Protect livestock – increase feed efficiency, increase weight gains, increase survival of newborns, improve animal health, and ultimately increase profits
- Reduce wind erosion
- Increase crop yields by 5 to 20 percent, and increase crop quality
- Improve irrigation efficiency
- Filter dust and other air pollutants
- Provide wildlife travel corridors and habitat
- Store carbon
- Reduce noise

Cost share assistance is available for planting windbreaks and shelterbelts through various programs in South Dakota. If you are interested, call the Yankton Conservation District at 605.665.6704 for information on planting trees and or planning your windbreaks large or small.

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**Seeking sponsors for our 2022 Newsletters! Newsletters are distributed in March, June, September, and December. Standard advertisement spaces are 2.25" x 2.25", but the width or height can be adjusted to accommodate custom advertisements. Each standard space is \$75 per space per issue.**

**Advertisements will appear black and white in the mailed-out print version and in color online and in the emailed PDF version.**

**Contact Sarah at YCCD to reserve your space!**



Merry Christmas and Happy New Year to ALL!



Thank you to those of you who have utilized YCCD and NRCS over the last year! It's been our privilege to work with you to conserve our natural resources including air, land, and water and to create better habitats for the animals and people that call this land home!



**Yankton County Conservation District**  
**2914 Broadway Ave**  
**Yankton, SD 57078**  
**Phone: 605-665-6704**  
**E-mail: [yanktoncd@sdconservation.net](mailto:yanktoncd@sdconservation.net)**  
**On Facebook as:**  
**Yankton County Conservation District**

### RETURN SERVICE REQUESTED

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[www.taborlumbercoop.com](http://www.taborlumbercoop.com)

## 2022 ORDER FORM - Orders due January 31st - Updated 12/2/21

Customer

**Billing Address**

City, State &amp; Zip

Phone\_\_\_\_\_605.

**Cell Phone**

Email

Date \_\_\_\_\_

## Yankton Conservation District

**2914 Broadway Ave**

**Yankton, SD 57078**

**PHONE: 605.665.6704 or 605.760.7117**

**EMAIL: [yanktoncd@sdconservation.net](mailto:yanktoncd@sdconservation.net)**

**\*\*Larger Sizes and Different Species may be available through special order.\*\*** **\*\*4.5% sale tax charged on plant orders\*\***

| BAREROOT HARDWOOD<br>10-20"<br>\$81.25/bundle(25 per BDL) | # of<br>BDLS | Total<br>Price | BAREROOT HARDWOOD<br>10-20"<br>\$81.25/bundle(25 per BDL)                                                                    | # of<br>BDLS | Total<br>Price | POTTED HARDWOOD<br>Contact Us for<br>Availability and Prices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tree<br>Ht | # of<br>Plants | Total<br>Price |
|-----------------------------------------------------------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------|----------------|
| <i>Inquire about other options available</i>              |              |                | Honeysuckle, Tartarian                                                                                                       |              |                | SPECIALTY FRUIT TREES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                |                |
| Almond, Russian                                           |              |                | Indigo, False                                                                                                                |              |                | <i>\$200/Bundle (5 per BDL)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Tree<br>Ht | # of<br>BDLS   | Total<br>Price |
| Apricot                                                   |              |                | Juneberry                                                                                                                    |              |                | <i>Most fruit trees need a cross pollinator.<br/>We suggest having 2+ of like species near each other.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                |                |
| Aronia, Black                                             |              |                | Kentucky Coffee Tree                                                                                                         |              |                | Apple, Haralred                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4-5'       |                |                |
| Aronia, McKenzie                                          |              |                | Lilac, Common 10-20"                                                                                                         |              |                | Apple, Prairie Yellow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4-5'       |                |                |
| Ash, Green                                                |              |                | Lilac, Common 6-12"                                                                                                          |              |                | Plum, Prairie Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3-5'       |                |                |
| Ash, Manchurian                                           |              |                | Lilac, Japanese Tree                                                                                                         |              |                | Plum, Superior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4-5'       |                |                |
| Ash, Mountain                                             |              |                | Lilac, Villosa                                                                                                               |              |                | Plum, Prairie Red                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3-5'       |                |                |
| Aspen, Quaking                                            |              |                | Lilac, White                                                                                                                 |              |                | Plum, Superior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4-5'       |                |                |
| Birch, River                                              |              |                | Lilac, White 6-12"                                                                                                           |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Boxelder                                                  |              |                | Linden, American                                                                                                             |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Buckeye, Ohio 6-12"                                       |              |                | Linden, Little Leaf                                                                                                          |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Buffaloberry                                              |              |                | Maple, Amur                                                                                                                  |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Caragana                                                  |              |                | Maple, Silver                                                                                                                |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Cherry, Black                                             |              |                | Mulberry                                                                                                                     |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Cherry, Nanking                                           |              |                | Ninebark, Common                                                                                                             |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Cherry, Pin                                               |              |                | Oak, Bur                                                                                                                     |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Cherry, Sand                                              |              |                | Oak, Swamp White                                                                                                             |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Chokecherry, Common                                       |              |                | Olive, Russian                                                                                                               |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Chokecherry, Schubert                                     |              |                | Pear, Ussarian                                                                                                               |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Cotoneaster, Centennial                                   |              |                | Plum, American                                                                                                               |              |                | ORNAMENTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |                |                |
| Cotoneaster, Peking                                       |              |                | Plum, Prairie Red                                                                                                            |              |                | Contact us for Quantity and Prices                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Tree<br>Ht | # of<br>Trees  | Total<br>Price |
| Cottonwood, Hybrid Male                                   |              |                | Poplar, White                                                                                                                |              |                | of Available Stock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                |                |
| Cottonwood, Native                                        |              |                | Rose, Hansen Hedge                                                                                                           |              |                | Crabapple, Midwest                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2-3'       |                |                |
| Crabapple, Midwest                                        |              |                | Sumac, Skunkbush                                                                                                             |              |                | Crabapple, Red Splendor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2-3'       |                |                |
| Crabapple, Red Splendor                                   |              |                | Sumac, Smooth                                                                                                                |              |                | Crabapple (Malus), Spring Snow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4'+        |                |                |
| Crabapple, Siberian                                       |              |                | Viburnum, Nannyberry                                                                                                         |              |                | Crabapple, Siberian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2-3'       |                |                |
| Currant, American Black                                   |              |                | Walnut, Black                                                                                                                |              |                | Linden, American 'Redmond'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5'+        |                |                |
| Currant, Golden                                           |              |                | Willow, Diamond                                                                                                              |              |                | Maple, Autumn Blaze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6-8'       |                |                |
| Dogwood, Redosier                                         |              |                | Willow, Golden                                                                                                               |              |                | Maple, Sugar Fall Fiesta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5'+        |                |                |
| Elderberry, Common                                        |              |                | Willow, Laurel Leaf                                                                                                          |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Elm, American                                             |              |                | Willow, Sandbar                                                                                                              |              |                | <i>Other Sizes and Species May be Available</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Elm, Japanese                                             |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Elm, Siberian                                             |              |                |                                                                                                                              |              |                | <div>ORDERS ARE DUE &amp; CANNOT BE CANCELLED AFTER JANUARY 31ST.</div> <div>ORDERS PLACED BY JANUARY 31ST MAY BE ELIGIBLE FOR COST SHARE.</div> <div>ORDERS WILL BE FULFILLED DEPENDENT ON WHAT IS AVAILABLE. SUBSTITUTIONS OF A DIFFERENT SIZE OR SIMILAR SPECIES MAY BE OFFERED.</div> <div>IF YOU ORDERED AN ITEM YOU NO LONGER NEED, WE WILL TRY TO TRANSFER IT, BUT IF IT IS NOT CLAIMED, YOU WILL BE RESPONSIBLE FOR PAYING THE FULL AMOUNT.</div> <div>50% DOWN DUE AT TIME OF ORDER; REST DUE UPON RECEIPT OF PLANTS. ORDERS WILL NOT BE PLACED WITHOUT A DEPOSIT.</div> <div>PLANTS GENERALLY COME IN LATE APRIL OR MAY.</div> <div>TREES, SHRUBS, &amp; PLANTS DO NOT COME WITH A SURVIVAL GUARANTEE.</div> |            |                |                |
| Hackberry                                                 |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Hawthorn, Homestead                                       |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Hawthorn, Roundleaf                                       |              |                | OLDER BAREROOT                                                                                                               |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Hazelnut, American                                        |              |                | <i>Inquire about available sizes and prices.</i><br><i>Sizes typically range from</i><br><i>2-3', 3-4', 4-5', 5-6', 6-8'</i> |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Hickory, Bitternut 8-12"                                  |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Hickory, Shagbark 6-12"                                   |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Honeylocust, THORNED                                      |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Honeylocust, Thornless                                    |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Honeysuckle                                               |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
| Honeysuckle, Freedom                                      |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
|                                                           |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
|                                                           |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |
|                                                           |              |                |                                                                                                                              |              |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                |                |

