National Elm Trial
Fargo, North Dakota

- Located at Yunker Farm, Fargo City Park.
- 22 elm cultivars were planted
- All Alee, Dynasty and Regal trees died within 2 years, so were considered “not established.” Each is considered non cold-hardy in ND. They are not included in the data.
- Growing site conditions are only fair due to extended soil saturation of heavy clay soil and root competition from poplars near blocks 3 and 4.
The public is welcome to view the elms in Fargo, ND.

The trees are located at Yunker Farm, City Park System, along the bicycle trail between 30th and 32nd Avenues.
Fargo Elms in Fall 2014
Plot Plan for Fargo, ND National Elm Trial

Block 1 from southeast (CV & year last planted)
- Pioneer (2005)
- Princeton (2006)
- Valley Forge (2005)
- Jefferson (2007)
- Prospector (2006)
- Accolade (2009)
- Prairie Expedition (2007)
- New Horizon (2005)
- Regal (2009)
- Frontier (2009)
- [Nothing planted]
- New Harmony (2006)
- Cathedral (2009)
- Patriot (2005)
- [Nothing planted]
- [Nothing planted]
- Vanguard (2009)
- Dynasty (2009)
- [Nothing planted]
- [Nothing planted]
- Emerald Sunshine (2005)
- Discovery (2009)
- Princeton (2006)
- [BAD SOIL]
- Patriot
- Triumph (2006)
- Homestead (2006)
- Frontier (2006)
- Princeton (2006)
- Valley Forge (2005)

Block 2 from southeast (CV & year last planted)
- Pioneer (2005)
- Commendation (2005)
- Frontier (2009)
- Jefferson (2007)
- Danada Charm (2005)
- New Harmony (2006)
- Cathedral (2009)
- Frontier (2009)
- Jefferson (2007)
- Prairie Expedition (2007)
- Vanguard (2009)
- Dynasty (2009)
- [Nothing planted]
- [Nothing planted]
- Emerald Sunshine (2005)
- Discovery (2009)
- Princeton (2006)
- [BAD SOIL]
- Patriot
- Triumph (2006)
- Homestead (2006)
- Frontier (2006)
- Princeton (2006)
- Valley Forge (2005)

Block 3 from southeast (CV & year last planted)
- Pioneer (2005)
- Cathedral (2009)
- Commendation (2005)
- Frontier (2009)
- Jefferson (2007)
- Prairie Expedition (2007)
- Frontier (2006)
- Prospector (2006)
- New Horizon (2005)
- Homestead (2006)
- Dynasty (2009)
- Frontier (2009)
- Jefferson (2007)
- Frontier (2006)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)

Block 4 from southeast (CV & year last planted)
- Pioneer (2005)
- Valley Forge (2005)
- Discovery (2009)
- Emerald Sunshine (2005)
- Princeton (2006)
- Commendation (2009)
- Homestead (2006)
- Dynasty (2009)
- Frontier (2009)
- Jefferson (2007)
- Frontier (2006)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)

Block 5 from southeast (CV & year last planted)
- Pioneer (2005)
- Cathedral (2009)
- Valley Forge (2005)
- Discovery (2009)
- Emerald Sunshine (2005)
- Princeton (2006)
- New Horizon (2005)
- Commendation (2005)
- Frontier (2009)
- Homestead (2006)
- Dynasty (2009)
- Frontier (2009)
- Regal (2009)
- Frontier (2006)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)
- Prairie Expedition (2007)
- Commendation (2009)
- Homestead (2006)
- Frontier (2009)
- Regal (2009)
- Frontier (2009)
- Homestead (2009)
- Danada Charm (2005)
- [Nothing planted]
- Valley Forge (2005)

= Dead tree as of October 14, 2014

30th Ave.
National Elm Trial
North Dakota Contacts

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Rating Notes on Fargo, ND Elms

• The performance of each tree was rated based on a combination of health, vigor, and crown form. Rating scale: Excellent - 5 points; Very good - 4 points; Good - 3 points; Fair - 2 points; Poor - 1 point; Dead - 0 points.

• Tree performance was based on trees that established, whether or not they were alive in 2014.

• Height, crown width (CW), and diameter breast height (dbh) growth rates were the average of trees that established.

• Crown shape was based on trees that were alive in 2014.
‘Emerald Sunshine’ ® *(Ulmus propinqua)*

All trees died so no pictures

Date: Fall 2014
Survival: 0%
Performance rating: N/A
Diameter at 1.4m (cm): N/A
Diameter growth rate: N/A
Height (m): N/A
Height growth rate: N/A
Crown shape: N/A
Crown width (m): N/A
Crown width growth rate: N/A
Insects: N/A
Disease: N/A

‘Princeton’ *(Ulmus americana)*

Date: Fall 2014/ Pictures 2015
Survival: 100%
Performance rating: 4.2
Diameter at 1.4m (cm): N/A
Diameter growth rate: 1.0 cm/yr
Height (m): N/A
Height growth rate: 48.8 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 30.5 cm/yr
Insects: N/A
Disease: N/A
‘Frontier’ \((Ulmus\ carpinifolia \times U.\ parvifolia)\)

- Date: Fall 2014 Pictures 2015
- Survival: 50%
- Performance rating: 1.5
- Diameter at 1.4m (cm): N/A
- Diameter growth rate: 0.5 cm/yr
- Height (m): N/A
- Height growth rate: 6.1 cm/yr
- Crown shape: Vase
- Crown width (m): N/A
- Crown width growth rate: 6.1 cm/yr
- Insects: N/A
- Disease: N/A

‘Homestead’ \((U.\ glabra \times U.\ carpinifolia \times U.\ pumila)\)

- Date: Fall 2014 Pictures 2015
- Survival: 100%
- Performance rating: 2.4
- Diameter at 1.4m (cm): N/A
- Diameter growth rate: 0.8 cm/yr
- Height (m): N/A
- Height growth rate: 21.6 cm/yr
- Crown shape: Vase (oval)
- Crown width (m): N/A
- Crown width growth rate: 24.4 cm/yr
- Insects: N/A
- Disease: N/A
‘Morton Glossy’ Triumph ™ (U. pumila X U. japonica X U. wilsoniana)

Date: Fall 2014/Pictures 2015
Survival: 100%
Performance rating: 3.3
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.8cm/yr
Height (m): N/A
Height growth rate: 25.9 cm/yr
Crown shape: Vase (irregular)
Crown width (m): N/A
Crown width growth rate: 21.3 cm/yr
Insects: N/A
Disease: N/A

‘Morton Plainsman’ Vanguard ™(U. pumila X U. japonica)

Date: Fall 2014/Pictures 2015
Survival: 75%
Performance rating: 2.3
Diameter at 1.4m (cm): N/A
Diameter growth rate: 1.0 cm/yr
Height (m): N/A
Height growth rate: 24.2cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 30.5 cm/yr
Insects: N/A
Disease: N/A
‘Morton Red Tip’ Danada Charm™ (*U. japonica* × *U. wilsoniana*)

- **Date**: Fall 2014/Pictures 2015
- **Survival**: 100%
- **Performance rating**: 4.4
- **Diameter at 1.4m (cm)**: N/A
- **Diameter growth rate**: 1.5 cm/yr
- **Height (m)**: N/A
- **Height growth rate**: 46.3 cm/yr
- **Crown shape**: Vase (oval)
- **Crown width (m)**: N/A
- **Crown width growth rate**: 39.6 cm/yr
- **Insects**: N/A
- **Disease**: N/A

‘Morton Stalwart’ Commendation™ (*U. carpinifolia* × *U. pumila* × *U. wilsoniana*)

- **Date**: Fall 2014/Pictures 2015
- **Survival**: 100%
- **Performance rating**: 3.0
- **Diameter at 1.4m (cm)**: N/A
- **Diameter growth rate**: 1.0 cm/yr
- **Height (m)**: N/A
- **Height growth rate**: 18.9 cm/yr
- **Crown shape**: Vase (oval)
- **Crown width (m)**: N/A
- **Crown width growth rate**: 33.5 cm/yr
- **Insects**: N/A
- **Disease**: N/A
‘Morton’ Accolade ® (U. japonica X U. wilsoniana)

Date: Fall 2014/Pictures 2015
Survival: 100%
Performance Rating: 3.3
Diameter at 1.4m (cm): N/A
Height (m): N/A
Height Growth rate: 31.4 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 33.5cm/yr
Insects: N/A
Disease: N/A

‘New Horizon’ (U. pumila X U. japonica)

Date: Fall 2014/Pictures 2015
Survival: 40%
Performance rating: 1.2
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.5 cm/yr
Height (m): N/A
Height growth rate: 21.3 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 15.2cm/yr
Insects: N/A
Disease: N/A
‘Patriot’ (U. glabra X U. carpinifolia X U. pumila) X U. wilsoniana

Date: Fall 2014/Pictures 2015
Survival: 100 %
Performance rating: 3.4
Diameter at 1.4m (cm): N/A
Diameter growth rate: 1.3 cm/yr
Height (m): N/A
Height growth rate: 39.9 cm/yr
Crown shape: Vase (irregular, oval)
Crown width (m): N/A
Crown width growth rate: 42.7 cm/yr
Insects: N/A
Disease: N/A

‘Pioneer’ (U. glabra X U. carpinifolia)

Date: Fall 2014/Pictures 2015
Survival: 75%
Performance rating: 3.3
Diameter at 1.4m (cm): N/A
Diameter growth rate: 1.3 cm/yr
Height (m): N/A
Height growth rate: 33.5 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 42.7 cm/yr
Insects: N/A
Disease: N/A
‘Prospector’ (*U. wilsoniana*)

- **Date:** Fall 2014/Pictures 2015
- **Survival:** 40%
- **Performance rating:** 1.2
- **Diameter at 1.4m (cm):** N/A
- **Diameter growth rate:** 0.8 cm/yr
- **Height (m):** N/A
- **Height growth rate:** 6.1 cm/yr
- **Crown shape:** Vase
- **Crown width (m):** N/A
- **Crown width growth rate:** 15.2 cm/yr
- **Insects:** N/A
- **Disease:** N/A

‘Valley Forge’ (*U. americana*)

- **Date:** Fall 2014/Pictures 2015
- **Survival:** 80%
- **Performance rating:** 3.2
- **Diameter at 1.4m (cm):** N/A
- **Diameter growth rate:** 1.0 cm/yr
- **Height (m):** N/A
- **Height growth rate:** 45.7 cm/yr
- **Crown shape:** Vase
- **Crown width (m):** N/A
- **Crown width growth rate:** 54.9 cm/yr
- **Insects:** N/A
- **Disease:** N/A
‘New Harmony’ (*U. americana*)

Date: Fall 2014
Survival: 100%
Performance rating: 3.4
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.8 cm/yr
Height (m): N/A
Height growth rate: 36.3 cm/yr
Crown shape: Oval (vase)
Crown width (m): N/A
Crown width growth rate: 21.3 cm/yr
Insects: N/A
Disease: N/A

‘Jefferson’ (*U. americana*)

Jefferson was found to be the same species as Princeton

Date: Fall 2014
Survival: 0%
Performance rating: N/A
Diameter at 1.4m (cm): N/A
Diameter growth rate: N/A
Height (m): N/A
Height growth rate: N/A
Crown shape: N/A
Crown width (m): N/A
Crown width growth rate: N/A
Insects: N/A
Disease: N/A

Not planted at this site
‘Lewis and Clark’ Prairie Expedition ® *(U.americana)*

Date: Fall 2014/Pictures 2015
Survival: 67%
Performance rating: 2.3
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.8cm/yr
Height (m): N/A
Height growth rate: 24.4cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 24.4cm/yr
Insects: N/A
Disease: N/A

‘Athena Classic’ Lacebark Elm *(U. parvifolia)*

Date: Fall 2014/
Survival: N/A %
Diameter at 1.4m (cm): N/A
Height (m): N/A
Crown shape: N/A
Crown width (m): N/A
Insects: N/A
Disease: N/A

Not planted at North Dakota
‘Discovery’ (*U. japonica*)

Date: Fall 2014/Pictures 2015
Survival: 100%
Performance rating : 1.5
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.8 cm/yr
Height (m): N/A
Height growth rate: 18.6 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 3.1 cm/yr
Insects: N/A
Disease: N/A

‘Cathedral’ (*U. pumila X U. japonica X U. wilsoniana*)

Date: Fall 2014
Survival: 80%
Performance rating : 2.2
Diameter at 1.4m (cm): N/A
Diameter growth rate: 0.8 cm/yr
Height (m): N/A
Height growth rate: 15.2 cm/yr
Crown shape: Vase
Crown width (m): N/A
Crown width growth rate: 15.2 cm/yr
Insects: N/A
Disease: N/A