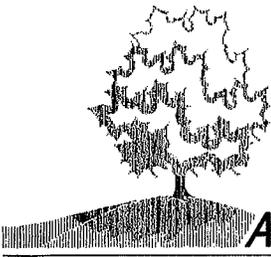


MAPLE GROVE  
ARBOR COMMITTEE  
REGULAR MEETING  
MARCH 12, 2015  
7:00 PM – ROOM 183  
MAYOR'S CONFERENCE ROOM



1. CALL TO ORDER
  
2. APPROVAL OF AGENDA AND MINUTES
  - A. APPROVAL OF AGENDA
  - B. APPROVAL OF MINUTES – FEBRUARY 12, 2015 REGULAR MEETING
  
3. OLD BUSINESS
  - A. 2015 ARBOR DAY PLANNING
  - B. LANDSCAPE TREE SUGGESTION LIST
  
4. AREA REPORTS
  
5. ADJOURNMENT



MAPLE GROVE  
ARBOR COMMITTEE

REQUEST FOR COMMITTEE ACTION

Item Number: 2 A & B

Meeting Date: March 12, 2015

Agenda Heading: Approval of Agenda and Minutes

Agenda Item: Approval of Agenda and Minutes

Recommended Committee Action:

Call by Chairperson \_\_\_\_\_ for any additions or revisions to the agenda.

Motion by Committee member \_\_\_\_\_, seconded by Committee member \_\_\_\_\_ to approve as proposed or approve as amended the agenda for the March 12, 2015 regular meeting.

Motion by Committee member \_\_\_\_\_, seconded by Committee member \_\_\_\_\_ to approve the minutes of the February 12, 2015 regular meeting as presented or as amended.

Discussion:

Committee Comments:

**MAPLE GROVE  
ARBOR COMMITTEE  
REGULAR MEETING  
February 12, 2015  
MAPLE GROVE GOVERNMENT CENTER  
7:00 PM**

Call to Order

The regular meeting of the Arbor Committee was called to order by Chairperson Mary Parenteau at 7:00 pm.

Members Present

Mary Parenteau, Julie Gamber, Joe Hogeboom, Rory Howell, Marilyn Arnlund, Steve Courtney, Mary Lynn Kenknight, Terri Polski, Adam Bedard

Members Absent

Ed Reichow

Also Present

Erik Johnson, City Councilmember, Frank Kampel - Staff Representative

Oath of Office

Frank Kampel administered the Oath of Office to Adam Bedard. Bedard's appointment will conclude on December 31, 2017. There is now one unfilled commissioner position remaining.

Approval of Agenda  
and Minutes

Chair Parenteau asked if there were any additions or revisions to the agenda. Hearing none, Joe Hogeboom made a motion to approve the agenda as presented. The motion was seconded by Julie Gamber and passed unanimously on a voice vote.

Chair Parenteau asked if there were any revisions to the January 8, 2015 meeting minutes. Hearing none, Steve Courtney made a motion to approve the minutes as presented. The motion was seconded by Rory Howell and passed unanimously on a voice vote.

New Business

Skye at Arbor Lakes  
2<sup>nd</sup> Addition Landscape Plan

Frank Kampel introduced the Landscape Plan for the proposed "Skye at Arbor Lakes, 2<sup>nd</sup> Addition", located at the intersection of Lakeview Dr. No. and 81<sup>st</sup> Ave. No. Kampel explained that the plantings at this development compliment the plantings located in neighboring multifamily residential developments.

Steve Courtney stated that there is a good mix of trees and plant material on the plan. Mary Lynn Kenknight noted that "Butterfly Bush" is not a hardy tree in this area.

Chair Parenteau asked if there were any further comments. The Arbor Committee concurred that the plan was acceptable, and Kampel stated that he would provide Kenknight's comments to the developer.

Old Business

2015 Arbor Day Planning

Frank Kampel introduced this item, and reminded the Committee that the 2015 Arbor Day celebration will be held on Saturday, April 25 at the Maple Grove Community Center. The Arbor Committee had previously discussed this item at the January 8, 2015 meeting.

Kampel stated that the following items have been confirmed for the event:

- Reptile and Amphibian Discovery Zoo
- University of Minnesota Raptor Center
- Audubon Society
- Smokey the Bear and Emerald Ash Borer Costumes
- MN DNR Invasive Species Display
- Master Gardeners – Tree Care Advisors
- Tote Bags
- Passbook Scavenger Hunt
- University of Minnesota "Make Your Own Beehive"
- Home Depot – Bird House Building
- Wood Carvers
- Artist – Barb Boulka

Kampel stated that the Committee will request Hackberry, Kentucky Coffeetree, Gingko, Japanese Larch, Ohio Buckeye, Catalpa, Smoketree, Ironwood and Princeton Elm trees from Dundee Nursery. Mary Lynn

Kenknight requested if Service Berry, Wahoo and Butternut trees could be added. Kampel stated that he will look into the request.

Mary Lynn Kenknight stated that "Buckthorn Busters" is actually an organization out of Elk River, MN which serves that community. "Buckthorn Blasters" is the local company which sells dobbers that can be used to kill buckthorn growth. The dobbers cost \$6 each. Marilyn Arnlund suggested that the City either see if it could purchase the items at a wholesale price in order to resell them at the Arbor Day event, or whether it could obtain the items at no cost, place the items for sale at the event, and return the proceeds and unused inventory to Buckthorn Blasters. Kenknight will contact Buckthorn Blasters to see if that is possible.

Mary Lynn Kenknight contacted the Yellow Tree Theatre to see if it could provide some sort of entertainment to children at the event. Kenknight has not heard back from the Yellow Tree Theatre. However, Kenknight has also contacted the Escalade Dance Theatre, which has agreed to offer children's drama-based activities. Kenknight will work with the Escalade Dance Theatre to see if it can integrate an "arbor" theme into its activities.

Frank Kampel stated that he is waiting to hear from Ed Lynde, of Lynde Nurseries, regarding the flower pot and seed giveaways. Mr. Lynde is out of town, and Kampel will contact him when he returns.

Frank Kampel stated that he will work on creating advertisement fliers for local elementary schools. Steve Courtney stated that many schools now send information out to parents electronically. Marilyn Arnlund suggested contacting the Osseo School District directly to see what the best method of communication is for the schools.

Frank Kampel stated that the trees for the tree raffle will be ordered as part of the annual city tree sale. Kampel stated that no crabapple trees will be ordered this year for giveaways.

Frank Kampel contacted Wright-Hennepin Electric regarding the tree seedling giveaway. Although the Committee previously requested that no Maple Trees or Spruce Trees be given away, Wright-Hennepin only has a certain number of species it can provide. That includes spruce, pine, maple, oak and birch. The Committee agreed to continue to distribute whatever species Wright-Hennepin Electric is able and willing to donate.

Frank Kampel will contact the Maple Grove High School National Honor Society as the event date draws near to see if there are any volunteers to wear the Smokey the Bear and Emerald Ash Borer costumes.

Marilyn Arnlund and Frank Kampel will continue to work on the Tree Inventory Display. Arnlund suggested that a log could be used to be measured in order to teach event-goers how to assess trees and to garner interest in the program.

Julie Gamber will work to coordinate coffee and orange drink refreshments with McDonald's. Joe Hogeboom will seek local businesses to donate cookies or other refreshments. Hogeboom will also contact the DNR regarding possible giveaways and prizes for the Passbook Scavenger Hunt.

The group will continue to discuss ideas for an Arbor Committee display at the event that would highlight the group's accomplishments. Mary Lynn Kenknight suggested creating a volunteer program that would assist neighborhoods in localized buckthorn removal events. The group will discuss this idea at a future meeting.

Terri Polski stated that children's activities could again be concentrated in the "senior" room at the Community Center. Activities will include tree medallion crafts, birdhouse and bee house building and other arts and crafts.

Mary Lynn Kenknight suggested that she and Marilyn Arnlund could produce a video of proper tree planting techniques that could be shown near the demonstration trees. Julie Gamber suggested that Ed Reichow's mulching display could also be incorporated into that area.

Frank Kampel stated that the Minnesota Horticultural Society is unable to participate in this year's event.

#### Landscape Tree Suggestion List

Frank Kampel reminded the group that the City's Landscape Tree Suggestion List continues to be refined. Mary Lynn Kenknight distributed a list of trees that are recommended to be avoided. Kampel will work to incorporate that list into the master Landscape Tree Suggestion List Document.

Mary Lynn Kenknight distributed a document from the City of Minneapolis that advertised its tree sale program. Kenknight pointed out the reduced cost of the trees and suggested that the City of Minneapolis worked to subsidize the cost. Frank Kampel stated that Maple Grove's tree sales are not subsidized by the City. Councilmember Erik Johnson stated that he does not believe that Maple Grove should subsidize the cost of the trees like Minneapolis does, pointing out that Minneapolis receives more state funding and subsidies than Maple Grove does.

Joe Hogeboom suggested that if certain trees were to be suggested by the Committee to be planted in Maple Grove, then perhaps those trees should be the only ones offered through the City's tree sale program.

Marilyn Arnlund asked whether or not the City has a contract with Grove Nurseries, and if not, suggested that the City look into pricing at other area nurseries for the City's tree sale. The group concurred. Councilmember Erik Johnson suggested that the City also look into how many municipal trees are replaced as part using a warranty.

#### Area Reports

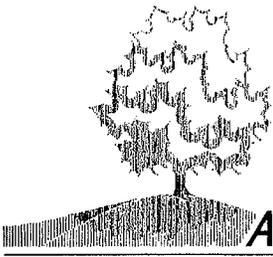
Frank Kampel introduced a memo from the Community Development Department stating that the wall sign on the Upsher Smith Building, which faces Interstate 494, is in compliance with City Code. Kampel explained that the Code regulates the words on the sign, but does not regulate the lighting around the sign. The light, itself, does meet the requirements of City Code.

Frank Kampel stated that he is still working with the University of Minnesota regarding parking lot island tree suggestions, and will report back to the Committee when he has more information.

#### Adjournment

Rory Howell made a motion to adjourn the meeting at 8:28 pm. The motion was seconded by Julie Gamber and passed unanimously on voice vote.

Respectfully submitted,  
Joe Hogeboom, Secretary  
City of Maple Grove Arbor Committee



MAPLE GROVE  
**ARBOR COMMITTEE**

REQUEST FOR COMMITTEE ACTION

Item Number: 3A

Meeting Date: March 12, 2015  
Agenda Heading: Old Business  
Agenda Item: 2015 Arbor Day Planning

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Recommended Committee Action:

Continue discussion on the planning of this year's Arbor Day event.

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Discussion:

The following activities will take place at this year's Arbor Day event:

- Reptile and Discovery Zoo display (12:00 – 1:00)
- Escalate – Nature Acting Program (1:00 – 2:00)
- U of M Raptor Center presentation (3:00 – 4:00)
- Tree Raffle Drawing (4:00)

The following activities will occur for the entire duration of the event:

- Display of Trees with the following trees:

- |                       |                 |
|-----------------------|-----------------|
| - Hackberry           | - Smoketree     |
| - Kentucky Coffeetree | - Ironwood      |
| - Gingko              | - Princeton Elm |
| - Ohio Buckeye        | - Serviceberry  |
| - Catalpa             | - Beech         |

- Barb Boulka – landscape artist
- Bird House building sponsored by The Home Depot (while supplies last)
- Maple Grove Wood Carvers
- Flower pots with seeds sponsored by Lynde Greenhouse and Nursery
- Tree seedling give-away sponsored by Wright Hennepin Electric Cooperative. 60 each of the following trees will be provided:

- |               |                      |
|---------------|----------------------|
| - Red Maple   | - Black Hills Spruce |
| - White Birch | - White Spruce       |
| - Red Oak     |                      |

- Tree Inventory Display which includes panels on overplanted and acceptable trees to plant
- EAB and Smokey the Bear costumes
- Audubon Society
- Tree medallions
- Passbook Scavenger Hunt. Prizes include passes to the Community Center
  - All building
  - Maple Maze
  - Pool

Maple Grove Arbor Committee  
 Request for Committee Action  
 Item Number 3A  
 March 12, 2015

- Paper tree making
- Invasive Species display by the Minnesota DNR
- Bee house making – by the Bee Squad
- Master Gardener/Tree Care Advisor
- Video on how to plant a tree
- How to mulch a tree
- Free tote bags
- The Girl Scouts were contacted to provide assistance on Arbor Day but have not responded.
- The National Honor Society at Maple Grove Senior High has been contacted and the faculty liaison to that group will forward this to the students and he is confident that they will be able to assist.
- Below are the activities that need the assistance of at least one Committee member. The Committee member scheduling is by no means carved in stone. If someone desires to switch with someone else, please feel free to do so.

<u>Activity</u>	<b>12:00-1:00</b>	<b>1:00-2:00</b>	<b>2:00-3:00</b>	<b>3:00-4:00</b>
Tree Display/Tree Planting Video	Mary Lynn	Mary Lynn	Mary Lynn	Mary Lynn
Master Gardener/Tree Care Advisor	Marilyn	Marilyn	Marilyn	Marilyn
Passbook Scavenger Hunt	Terri	Mary	Julie	Joe
Tree Medallions/Home Depot	Joe/Adam	Steve/Rory	Mary/Terri	Julie/Ed
Paper Tree Making	Julie	Joe	Rory	Terri
Tote bag distribution	Mary	Terri	Adam	Steve
Tree seedling distribution	Steve	Julie	Ed	Mary
Refreshments	Rory	Ed	Joe	Adam
Tree mulch	Ed	Adam	Steve	Rory

After this meeting, there is only one Committee meeting remaining prior to the Arbor Day event. Please mention anything that still needs to be discussed so that an attempt can be made to incorporate it into the event.

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Committee Comments:



REQUEST FOR COMMITTEE ACTION

Item Number: 3B

Meeting Date: March 12, 2015

Agenda Heading: Old Business

Agenda Item: Landscape Tree Suggestion List

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Recommended Committee Action:

Finalize Landscape Tree Suggestion List.

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Discussion:

Comments received at the last meeting have been incorporated into the list, including on pages 11-14, trees the committee recommends not be planted. Final review of the list is needed, after which the list will be printed and distributed.

At the last meeting, Councilmember Johnson asked how many trees were replaced as part of the warranty provision from Grove Nursery and other nurseries the City obtained trees from. According to Joe Bennett, Street Supervisor, these are the tree counts from 2014:

- 102 new trees planted consisting of:
  - 68 on and along Weaver Lake Road east of Main Street
  - 28 hit by cars and replaced
  - 2 replaced under warranty

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Committee Comments:

## Landscape Tree Suggestions

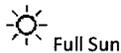
The following document is split into multiple sections. Native selections are listed first, followed by non-native species. The native species are those defined by the MN DNR Division of Forestry for the Big Woods Ecological Subsection. Additionally, native plants are best adapted to the local climate. Once established, they seldom need watering, mulching, protection from frost or continuous mowing; They are used by beautiful and diverse native butterflies and insects. In contrast, many common horticultural plants require insect pest control to survive; Moreover, native plants and plant communities provide habitats and refuges for wildlife, especially birds. (Adapted from the MN DNR website: <http://www.maplegrovern.gov/about/boards-and-commissions/arbor-committee/resources/>)

### Native Deciduous – small

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments & Notable Varieties
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Alder, Speckled ( <i>Alnus rugosa</i> )	15-20'	15-20'	F		L	H	H	L	Needs moist conditions. Improves soil fertility with nitrogen. Dark purple fruit persists on wood that turns orange in winter. Age 25-50 years.
2. Bladdernut, American ( <i>Staphylea trifolia</i> )	10-15'	10-15'	M		L	I	H	I	Interesting 1-2" seed pods. Yellow fall color.
3. Blue Beech ( <i>Carpinus caroliniana</i> )	15-18'	15-20'	S	 	L	L	L	L	Also called American Hornbeam. Good fall color; interesting bark. Understory tree. Age 50-75 years.
4. Dogwood, Gray ( <i>Cornus racemosa</i> )	8-12'	6-10'	M	 	L	H	H	L	White flowers, white fruit, purple-red fall color. May colonize.
5. Dogwood, Pagoda ( <i>Cornus alternifolia</i> )	15-25'	20-25'	S	 	L	I	I	L	White spring flowers; interesting horizontal branching pattern. Beneficial for butterflies. pH 4.0-7.5. Potentially invasive.

**Key:**

Light:



Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments & Notable Varieties
	Height	Spread			Salt	Wet	Clay Soils	Drought	
6. Eastern Wahoo ( <i>Euonymus atropurpurea</i> )	20-25'	10-15'	M		L	I	H	I	Twigs have corky ridges or wings. Red fall color. Pinkish fruit. Age 25-50 years.
7. Hawthorn, Cockspur ( <i>Crataegus crusgalli</i> )	15-18' 15-25'	20-25' 20-30'	M S	 	L	H	H	H	Bright red fruit; seek out thornless varieties. Deer usually avoid eating. Beneficial for butterflies. Age 50-100 years. Potentially invasive.
8. Ninebark, Common ( <i>Physocarpus opulifolius</i> )	8-10'	8-10'	M		I	H	H	I	Dense growth.
9. Serviceberry ( <i>Amelanchier spp.</i> )	15-25'	10-15'	M		H	H	H	L	White flowers in spring; good fall color. Very high wildlife value, bird magnet. Edible fruit. Consider Downy ( <i>A. arborea</i> ) or Allegheny ( <i>A. laevis</i> ) varieties.
10. Buffaloberry, Silver ( <i>Shepherdia argentea</i> )	8-10'	8-10'	M		H	H	H	L	Silvery, light green leaves. Berries in late summer.
11. Viburnum, Arrowwood ( <i>Viburnum dentatum</i> )	6-8'	6-8'	M	  	I	H	H	I	Very shade tolerant. Also recommended varieties: Witherod Viburnum ( <i>V. cassinoides</i> ) or Mapleleaf Viburnum ( <i>V. acerifolium</i> )
12. Viburnum, Nannberry ( <i>Viburnum lentago</i> )	16-20'	10-20'	F	  	L	H	H	L	White flowers. Rose-pink fruit turns blue-black. Purple-red fall color. Edible fruit, but large central pit. Often along forest edges, swamps. Age 10-20 years.
13. Crimson Cloud Hawthorn ( <i>Crataegus laevigata</i> )	15'	10-15'	M	 	L	H	H	H	Rounded form. Red fruit and flowers. Minor insect and disease concerns. pH 6.0-8.0
14. Ivory Silk Lilac ( <i>Syringa reticulata</i> 'Ivory Silk')	15-25'	15-20'	M		H	H	H	M	Introduced in Ontario Canada. Has superior bloom & foliage. Flowers at a young age. Sturdy & more compact growth than other species. Cherry-like bark. Intolerant to compacted soil. pH 6.5-8.0

**Key:**

Light:



Full Sun



Part sun/part shade



Shade

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

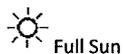
## Native Deciduous – medium

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Ironwood or Hophornbeam ( <i>Ostrya virginiana</i> )	25-45'	20-35'	S		L	H	H	L	Tolerates wide range of soil and light conditions (grows faster in more sun). Attractive catkins resemble 'hops'. Holds leaves into winter. Age 75-100 years.
2. Linden, Littleleaf ( <i>Tilia cordata</i> )	35-50'	20-30'	M		I	H	H	I	Excellent shade tree. Beneficial for bees and other wildlife. Very susceptible to storm damage. pH 6.5-7.5
3. Plum, American ( <i>Prunus americana</i> )	20-35'	20-30'	F		L	L	H	H	Produces sweet-spice scented white blooms. Edible fruit. Age 25-30 years.
4. Black Willow ( <i>Salix nigra</i> )	35-55'	20-40'	F		M	H	H	H	Only native willow to MN that reaches tree size. Form is columnar.

## Native Deciduous – tall

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Birch, Paper ( <i>Betula papyrifera</i> )	40-70'	25-50'	M		M	H	I	L	Attractive white bark, yellow fall color. Choose insect-resistant cultivars. Age 80-100 years. Available in clump or single stem forms. pH 5.0-8.0
2. Birch, River ( <i>Betula nigra</i> )	40-60'	30-40'	M		I	H	H	L	Attractive bark. High wildlife value. Available in clump or single stem forms. Age 50-75 years.
3. Butternut ( <i>Juglans cinerea</i> )	50-75'	50-75'	M F		L	H	H	L	Gray bark color. Edible nuts. Age 80-100 years. pH 6.6-8.0

**Key:** Light:



Full Sun



Part sun/part shade



Shade

Growth Rate:

F – fast  
M – moderate  
S – slow

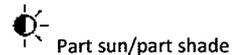
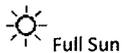
Tolerance: H – high

I – intermediate  
L – low

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
4. Cherry, Pin ( <i>Prunus pensylvanica</i> )	20-35'	20-35'	F		L Spray-M	H	L	H	Attractive bark. Bright red-orange color in fall. Edible fruit. Great wildlife value. Age 20-40 years. pH 6.0-7.5
5. Coffeetree, Kentucky ( <i>Gymnocladus dioica</i> )	50-70'	30-50'	M		I	I	H	H	Provides open shade; 4-8" long pods (female trees) create interest in winter. Age 50-75 years.
6. Hackberry ( <i>Celtis occidentalis</i> )	50-75'	35-50'	M F		I Spray-L	H	H	H Silty Clay	Unique bark; adaptable. Persistent berries. High wildlife value. Age 100-150 years. pH 6.5-8.0
7. Hickory, Bitternut ( <i>Carya cordiformis</i> )	50-75'	50-75'	S		I	H	H	I	Yellow color in fall. Nuts produced are very bitter. Age 100-150 years.
8. Honey locust ( <i>Gleditsia triacanthos</i> )	50-75'	50-75'	M F		H	H	H	H	Provides attractive "open" shade. Opt for thornless varieties: 'Moraine', 'Shademaster', or 'Skyline'. Age 100-125 years. pH 6.0-8.0
9. Linden ( <i>Tilia americana</i> )	50-75'	25-40'	F		L	I	H	I	Also called American Basswood. Excellent for larger sites. Age 150-200 years
10. Maple, Sugar ( <i>Acer saccharum</i> ) *	50-75'	50'	M S		L	H	L	L	Excellent fall color. Sap used for maple syrup. Leaves break down quickly. Age 150-200 years. pH 6.0-7.5
11. Oak, Bur ( <i>Quercus macrocarpa</i> )	60-100'	75-100'	S		H spray-M	H	H	H	Excellent tree for urban landscapes. Age 150-250 years. Edible acorns. pH 4.6-8.0
12. Oak, Northern Pin ( <i>Quercus ellipsoidalis</i> )	50-75'	50-75'	M S		I	H	H	H	Good red fall color; distinctive pyramid form. Good wildlife value. Age 100-150 years. pH 5.5-7.5
13. Oak, Northern Red ( <i>Quercus rubra</i> )	60-80'	40-50'	M		Spray-L Soil-I	H	H	L	Withstands City conditions. Fast growth rate for oaks. Age 100-150 years. pH 4.0-6.5
14. Oak, Swamp White ( <i>Quercus bicolor</i> )	40-60'	30-60'	M		H (soil)	H	H	L	Quite adaptable. Unique bark. Holds leaves into winter. Very high wildlife value. Age 150-200 years.
15. Walnut, Black ( <i>Juglans nigra</i> )	70-100'	75-100'	M F		I (soil)	H	H	H	Produces sizeable and edible fruit. Some plants may be sensitive being nearby. Age 150-175 years.

**Key:**

Light:



Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
16. Northern Catalpa ( <i>Catalpa speciosa</i> )	40-75'	25-50'	F		I	H	I	H	White flowers in the spring with capsule fruit. Yellow fall color. Tolerant of compacted soil. pH 6.1-8.0

\*Maple trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in tree diversification.

## Native Coniferous (Evergreens)

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Fir, Balsam ( <i>Abies balsamea</i> )	50-75'	20-30'	S		L	H	H	L	Withstands pollution. Fragrant needles. Age 100-150 years.
2. Hemlock, Emerald Fountain ( <i>Tsuga canadensis</i> 'Monier')	6-10'	2-3'	F		L	H	H	L	Shad tolerant.
3. Hemlock, Weeping ( <i>Tsuga canadensis</i> 'Sargentii')	10-15'	6-8'	F		L	L	L	L	Prefers moist well drained acidic soil. Benefits from protection from winter winds.
4. Larch, American ( <i>Larix laricina</i> )	40-70'	20-35'	M		H	H	H	I	Also called Tamarack, Needles yellow in fall and drop off; small cones. Likes wet/boggy areas. Age 100-150 years.
5. Pine, Red (Norway) ( <i>Pinus resinosa</i> )	75-100'	35-55'	M F		I	H	L	L	Minnesota State Tree. Also called Norway Pine. Produces large cones. Age 150-200 years. Major insect & disease concerns.
6. Spruce, Black Hill ( <i>Picea glauca</i> 'densata') *	30-50'	20-35'	S		H	I	H	H	More dense and ornamental than other spruce.
7. Spruce, White ( <i>Picea glauca</i> ) *	40-60'	12-20'	M		H	I	H	H	Hardy; Needs full sun. Age 175-200 years.

**Key:** Light:



Full Sun

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

December 2014



Part sun/part shade



Shade

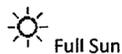
Common Name (Latin)	At Maturity			Light Preference	Tolerance to:				Comments
	Height	Spread	Growth Rate		Salt	Wet	Clay Soils	Drought	
8. Northern White Cedar ( <i>Thuja occidentalis</i> )	30-60	20-50	M		Spray-L Soil-H	H	H	I	Nice shape and form. Susceptible to storm damage. pH 6.0-8.0
9. Japanese Larch ( <i>Larix kaempferi</i> )	70-90	25-40	F		H	H	H	L	Considered the most handsome Larch & fastest growing when young. Plant in a large area due to size.

\*Spruce trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in tree diversification.

## Non-Native Plants - Deciduous – small

Common Name (Latin)	At Maturity			Light Preference	Tolerance to:				Comments
	Height	Spread	Growth Rate		Salt	Wet	Clay Soils	Drought	
1. Birch, Fox Valley ( <i>Betula nigra</i> 'Little King')	10'	12'	F		I	H	L	L	In River Birch family. Very dense, compact growth. Most adaptable birch. "Cully" has high tolerance to clay soils. 45-50' H and 30-35 Spread
2. Chokecherry, Amur ( <i>Prunus maackii</i> )	20-30'	18-25'	F		L	L	H	L	Showy white flowers; attractive copper bark.
3. Crabapple ( <i>Malus spp.</i> )	10-30'	8-20'	M		L	H	H	I	White to pink flowers in spring. Choose cultivars with small, persistent fruit. Varieties are: 'PrairieFire', 'Donald Wyman', 'Sargent's', 'Purple Prince', 'Harvest Gold', 'Coralburst,'. Choose disease resistant! ("Radiant, Prairie, Indian Magic, Pink Spires and Profusion" have major disease concerns).
4. Hydrangea, Tree Form ( <i>Hydrangea paniculata</i> 'Grandiflora')	8-10'	6-10'	F		H	I	H	L	White to pink flowers

**Key:** Light:



Full Sun

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

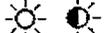
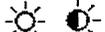
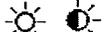
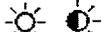
I – intermediate  
L – low



Part sun/part shade



Shade

Common Name (Latin)	At Maturity			Light Preference	Tolerance to:				Comments
	Height	Spread	Growth Rate		Salt	Wet	Clay Soils	Drought	
5. Lilac, Dwarf Korean ( <i>Syringa meyeri</i> 'Palibin')	6-8'	5-7'	F		I	I	H	I	An excellent specimen tree for small areas.
6. Lilac, Japanese Tree ( <i>Syringa reticulata</i> )	15-25'	15-20'	M		H	H	H	I	Showy white flowers in summer. Easy to plant bareroot in spring and fall as well as container. pH 6.5-8.0
7. Lilac, Miss Kim ( <i>Syringa patula</i> )	8-10'	10-15'	S		Spray-I	H	H	I	Fragrant pink flowers. Burgundy fall color. If require smaller variety, consider 'Tinkerbelle' ( <i>Syringa</i> 'ballbelle') just 5-6' in height/width. pH 6.5-7.5
8. Magnolia ( <i>Magnolia acuminata</i> ) ( <i>Magnolia leobneri</i> )	8-30'	8-30'	M		I	L	L	L	ZONE 5-9 Fragrant flowers in April to May. Loebneri Magnolia runs taller – 'Merrill' variety has done well at the MN Landscape Arboretum.
9. Maple, Korean * ( <i>Acer pseudosieboldianum</i> )	15-25'		M		L	I		I	A hardy version of a Japanese maple. Exfoliating bark and reddish-gold fall color.
10. Viburnum, Blackhaw ( <i>Viburnum prunifolium</i> )	10-15'	8-12' 6-12'	M		L	H	H	H	White flower clusters, pink fruits turn black in fall. Red/bronze fall color.
11. Viburnum, Mohican ( <i>Viburnum lantana</i> 'Mohican')	8' 7-8'	8' 7-10'	F S		L	H	I	H	Creamy white flowers. Orange/red fruit turns black in fall. Red fall color. pH 6.0-7.0
12. Willow, Arctic Blue Leaf ( <i>Salix purpurea</i> 'Nana')	6-10' 3-4'	3-6'	M F		I	H	H	I	Fine textured blue-green foliage. Branches are used to make baskets.
13. Homestead Buckeye ( <i>Aesculus X</i> 'Homestead Buckeye')	25-30'	20-35'	S		H	H	I	L	Dark orange-red flowers. Resistant to scorch & mildew. Fruitless. Do not plant bareroot. pH 6.0-7.5
14. Ohio Buckeye ( <i>Aesculus glabra</i> )	25-35'	20-35'	S		I	H	H	L	Yellow spring flowers; orange fall color. Butterflies love the flowers. pH 6.0-7.5

\* Maple trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in tree diversification.

**Key:**

Light:



Full Sun

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – Intermediate  
L – low



Part sun/part shade



Shade

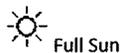
## Deciduous – medium

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Pear, Ussurian ( <i>Pyrus ussurlensis</i> )	30-45'	30-45'	M	 	I	I	H	H	Showy spring flowers. Fruit inedible, but not present on solitary trees. Very hardy. pH 5.5-8.0
2. Redbud, Eastern ( <i>Cercis canadensis</i> )	20-30'	25-35'	M S	  	I	H	H Silty Clay	L	Reddish purple flower in spring. Age 50-75 years. Major disease concerns. pH 6.1-8.0
3. Willow, Laurel ( <i>Salix pentandra</i> )	20-40'	15-35'	F		I	H	H	I	Glossy, attractive dark green foliage. Age 20-40 years.
4. Yellowwood, American ( <i>Cladrastis lutea</i> )	30-45'	40-45'	M		I	I	I	H	Yellow fall leaf color. Clusters of fragrant white flowers. High pH & dry soil tolerant.
5. Blue Beech ( <i>Carpinus caroliniana</i> )	15-30'	15-25'	S	  	I	H	I	L	Also known as Hornbeam
6. Bebb Willow ( <i>Salix bebbiana</i> )	20-35'	20-35'	F		H	H	H	H	pH 5.5 - 7.5 Can survive short periods of standing water, but growth rates decline sharply if water persists above the root collar. Is not drought tolerant, but prefers sites with adequate moisture. It is also shade intolerant and grows best in full sunlight

## Deciduous – tall

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Cork tree, Amur ( <i>Phellodendrom spp.</i> Sachalinense 'His Majesty')	30-50'	30-50'	F	 	I	I	H	H	Interesting corky bark, Pollution tolerant, adaptable to wide range of soil types. pH 5.0 – 8.2 Tolerant to compacted soil.

**Key:** Light:



Full Sun

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low



Part sun/part shade



Shade

Common Name (Latin)	At Maturity			Light Preference	Tolerance to:				Comments
	Height	Spread	Growth Rate		Salt	Wet	Clay Soils	Drought	
2. Elms, Hybrid ( <i>Ulmus</i> hybrids)	40-60'	20-40'	F	  	I	I	H	H	Cultivars resistant to Dutch Elm disease: 'Accolade', 'New Horizon', 'Homestead', 'Discovery', and 'Cathedral'. Beneficial for butterflies.
3. Princeton Sentry Ginkgo ( <i>Ginkgo biloba</i> 'Princeton sentry')	55 – 60	25 – 30	S		H	H	H	H	Yellow fall color. pH 6.1 – 8.0

\*Maple trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in tree diversification.

## Coniferous – small

Common Name (Latin)	At Maturity			Light Preference	Tolerance to:				Comments
	Height	Spread	Growth Rate		Salt	Wet	Clay Soils	Drought	
1. Arborvitae, Eastern ( <i>Thuja occidentalis</i> )	10-15'	3-5'	M		L	I	H	I	'Emerald' variety is narrow, compact, and pyramidal form. 'Nigra' variety is pyramidal. 'Techny' variety is also a strong grower.
2. Techny Arborvitae ( <i>Thuja occidentalis</i> , 'Techny')	15 – 25	6 – 20	M	 	Spray=L Soil=M	H	H	L	Good dense hedge or screen. Retains deep green color all year. Susceptible to cold injury and storm damage. pH 6.0 – 8.0
3. Juniper, Chinese ( <i>Juniperus chinensis</i> )	8-15'	6-12'	M		I	L	H	H	Excellent evergreen foliage; females produce berry-like cones.
4. Larch, Deborah Waxman ( <i>Larix laricina</i> 'Deborah Waxman')	6'	4'	F		L	I	H	L	Dwarf form of American Larch. Blue-green needles turn golden yellow in fall.
5. Pine, Macopin ( <i>Pinus strobus</i> 'Macopin')	8-10'	8-10'	S		L	L	H	I	Dwarf form of white pine. Upright habit with large quantity of cones.
6. Pine, Mugo ( <i>Pinus mugo</i> )	12-15'	12-15'	M	 	H	L	H	H	Dense, wide-spreading form.
7. Pine, Slim Jim ( <i>Pinus sylvestris</i> 'Slim Jim')	8-10'	4'	S	 	L	L	H	H	Dense columnar form of Scotch Pine with twisted dark green needles.

**Key:**

Light:



Full Sun



Part sun/part shade



Shade

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
8. Pine, Mugho ( <i>Pinus mugo</i> 'Tannenbaum')	10-15'	6'	S	 	L	L	H	H	Compact, pyramidal form with good winter color.
9. Spruce, Acrocona ( <i>Picea abies</i> 'Acrocona') *	8'	4'	S	 	L	L	H	I	Compact & upright growth habit
10. Spruce, Alberta ( <i>Picea glauca</i> 'Conica') *	13'	10'	S	 	L	L	L	I	Attracts birds, deer resistant
11. Spruce, North Star ( <i>Picea glauca</i> 'North Star') *	12'	4'	S		I	I	L	L	Resilient to harsh winter conditions. No significant negative characteristics.
12. Yew, Upright Japanese ( <i>Taxus cuspidata</i> 'Capitata')	10-12'	3-5'	S	 	L	L	I	I	Prefers moist well drained soil. Shade tolerant. Needs protection from winter winds.

\*Spruce trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in the diversification.

## Coniferous – medium & tall

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
1. Fir, White ( <i>Abies concolor</i> )	30-50'	15-25'	M	 	I	I	H	I	Soft, evergreen foliage; excellent pyramidal form. pH 4.0 – 6.5
2. Pine, Scotch ( <i>Pinus sylvestris</i> )	30-50'	25-40'	M	 	L	L	L	H	Attractive orange bark. Age 100-150 years.
3. Balsam Fir ( <i>Abies balsamea</i> )	50-75'	20-30	S	  	I	H	H	I	Very popular as Christmas trees.

**Key:** Light:



Full Sun



Part sun/part shade



Shade

Growth Rate:

F – fast  
M – moderate  
S – slow

Tolerance: H – high

I – intermediate  
L – low

Common Name (Latin)	At Maturity		Growth Rate	Light Preference	Tolerance to:				Comments
	Height	Spread			Salt	Wet	Clay Soils	Drought	
4. Pine, Swiss Stone ( <i>Pinus cembra</i> )	25-35'	10-15'	S		L	L	L	I	Dense, conical growth form; dark green foliage.
5. Spruce, Norway ( <i>Picea abies</i> ) *	40-65'	20-35'	F		L	L	H	I	Produces large cones of any spruce. Age 150-200 years. Intolerant to compacted soil. Largest and fastest growing spruce. pH 4.7 – 7.5

\*Spruce trees tend to be overplanted in Maple Grove. Consideration should be given to plant other trees to aid in tree diversification.

**List of Trees the Maple Grove Arbor Committee Recommends Not to Plant:**

**Ash**

Green Ash – susceptible to Emerald Ash Borer

*Fraxinus pennsylvanica*

White Ash – susceptible to Emerald Ash Borer

*Fraxinus americana*

**European Mountain Ash** – susceptible to fireblight

*Sorbus aucuparia*

**Birch**

European Birch – highly susceptible to bronze birch borer

*Betula pendula*

Asian Birch – highly susceptible to bronze birch borer

*Betula platyphylla*

Himalayan Birch – highly susceptible to bronze birch borer

*Betula utilis*

Japanese Monarch Birch

*Betula maximowicziana*

**Black Cherry** – invasive, spreads laterally by suckers

*Prunus serotina*

**Crabapple** – The Arbor Committee does not recommend the planting of any Crabapple trees due to them being overplanted in Maple Grove. Crabapple trees that are not disease resistant will need to be treated with fungicides or antibiotic streptomycin to prevent weakening or death of the tree

Columnar Siberian Crabapple – susceptible to disease Apple Scab

*Malus baccata 'Columnaris'*

Golden Raindrops Crabapple – susceptible to disease Fire Blight

*Malus 'Schmidtcutleaf'*

Klehm's Improved Bechtel Flowering Crab – susceptible to disease Cedar Apple Rust

*Malus icensis 'Klehm's Improved Bechtel'*

Prairie Rose Crabapple – susceptible to disease Cedar Apple Rust

*Malus icensis 'Prairie Rose'*

Royalty Crabapple – susceptible to disease Apple Scab

*Malus 'Royalty'*

Spring Snow Crabapple – susceptible to disease Apple Scab

*Malus 'Spring Snow'*

**Eastern Red Cedar** – disease vector, invasive, toxic

*Juniperus virginiana*

**Eastern Redbud** – extremely borderline for Minnesota winters

*Cercis canadensis*

### **Elm**

Siberian Elm – invasive

*Ulmus pumila*

### **Locust**

Black Locust - invasive

*Robinia pseudoacacia*

**Lombardy Poplar** – susceptible to disease and insects

*Poplar nigra italica*

**Maple –** The Arbor Committee does not recommend the planting of any Maple trees due to them being overplanted in Maple Grove.

Amur Maple - invasive

*Acer ginnala*

Norway Maple - invasive

*Acer platanoides*

Silver Maple – weak wood, shallow roots

*Acer saccharinum*

Autumn Blaze Maple – crossed with Silver Maple, weak wood, shallow roots

*Acer x fremanii*

Northwood Red Maple – very shallow roots

*Acer rubrum 'Northwood'*

Scarlet Jewel Red Maple – intolerant of the soil ph in Maple Grove

*Acer rubrum 'Scarlet Jewel'*

Fall Fiesta Sugar Maple – intolerant of compacted soils

*Acer saccharum 'Bialsta'*

Apollo Sugar Maple – intolerant of compacted soils

*Acer saccharum 'Barrett Cole'*

Freen Mountain Sugar Maple – intolerant of compacted soils

*Acer saccharum 'Green Mountain'*

Hot Wings Maple – invasive

*Acer tataricum 'GarAnn'*

Three Flowered Maple – intolerant of the soil ph in Maple Grove

*Acer triflorum*

Bloodgood Japanese Maple – not in Minnesota hardiness zone

*Acer palmatum 'bloodgood'*

Columnar Norway Maple – shallow roots

*Acer platanoides 'Columnare'*

Crimson King Norway Maple – invasive

*Acer platanoides 'Crimson King'*

Deborah Schwedler Maple – invasive

*Acer platanoides 'Deborah'*

Red Sunset Red Maple – intolerant of soil ph in Maple Grove

*Acer rubrum 'Red Sunset'*

Japanese Viridis Maple – Not in Minnesota hardiness zone

*Acer palmatum 'Dissectum Viridis'*

Crimson Queen Japanese Maple – not in Minnesota hardiness zone

*Acer palmatum 'Crimson Queen'*

Emperor I Japanese Maple – not in Minnesota hardiness zone

*Acer palmatum 'Emperor I'*

Shirazz Japanese Maple – not in Minnesota hardiness zone

*Acer palmatum 'Gwen's Rose Delight'*

Red Dragon Japanese Maple – not in Minnesota hardiness zone

*Acer palmatum 'Red Dragon'*

**Russian Olive** – invasive

*Elaeagnus angustifolia*

**Spruce** – The Arbor Committee does not recommend the planting of any Spruce trees due to them being overplanted in Maple Grove.

Colorado Blue Spruce – highly susceptible to Rhizosphaera needle cast, Needle rust,

*Picea Pungens*

Fat Albert Blue Spruce – susceptible to many diseases

*Picea pungens 'Fat Albert'*

Colorado Weeping Blue Spruce – susceptible to many diseases

*Picea pungens 'Pendula'*

Slenderina Weeping Blue Spruce – susceptible to many diseases

*Picea pungens 'Slenderina'*

**Tree of Heaven** – invasive

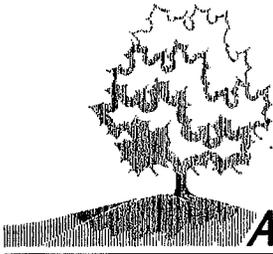
*Ailanthus altissima*

**Quaking Aspen** – suckers profusely

*Populus tremuloides*

REQUEST FOR COMMITTEE ACTION

Item Number: 4



MAPLE GROVE  
**ARBOR COMMITTEE**

Meeting Date: March 12, 2015

Agenda Heading: Area Reports

Agenda Item: Area Reports

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Recommended Committee Action:

None.

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Discussion:

There were no new Area Reports presented at the February 2015 meeting.

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Committee Comments: