

HGA Residents,

Please see the below for the HGA Open Board Meeting agenda. The meeting is scheduled for Tuesday, August 30, 2016 at 7:45 PM at the Harding Library.

Agenda item:

1. Approval of the minutes .
2. Treasurer's report
3. Future painting schedule discussion
4. Budget for FY 2016/17: presentation and approval.
5. Mailbox project update.
6. Work behind 8/9 Beech.
7. Approval of a new vendor: At Home Net. They are service providers of a web-site which would allow the board and homeowners track their work orders and more.
8. Insurance claim: 6 Ash. Status update.
9. Landscape improvements and tree services.
10. 2 open seats for election.
11. Property manager's report.
12. Items from the floor.

Regards,
HGA Board.

News from the Harding Green Association Board of Trustees

www.Hardinggreen.org

AUGUST, 2016

BOARD OF TRUSTEES:

President: Michael Chou
Vice President: Richard Bruno
Secretary: Sharon Grenard
Treasurer: Yuriy Gruzglin

ALTERNATE DISPUTE

RESOLUTION COMMITTEE:

James Hannaford
Dina Khandalavala
Michael Renzo-Posen

NEWSLETTER & WEBSITE:

Editor: Michael Chou

CONTRIBUTOR(S):

Dan Fitzpatrick
Michael Chou

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PAM ROSANIO

HGA REPRESENTATIVE

USI INSURANCE SERVICES

(800) 828-2252 x85573

CALENDAR

HARDING GREEN ASSOCIATION

OPEN BOARD MEETING

*Open Meeting Scheduled for Tuesday,
August 30, 2016 Hardin g Library,
7:45PM.*

RECYCLING

Tuesdays 9/13, 9/27

- Commingled aluminum and steel cans, plastic (#s 1 and 2), and glass
- Commingled newspapers, magazines, junk mail and other recyclable paper

HARDING TOWNSHIP

RECYCLING CENTER

HOURS: 7-12 every Wednesday,
and 9-12 on Saturdays.

Announcements

There are 2 open seats up for election at the October Annual Meeting. HOMEOWNERS interested in running for the Board can request the application form from Board Secretary Sharon Grenard or download the form at the HGA Website <http://hardinggreen.org/Forms.htm> (Application for Candidacy of the Board of Trustees). The form and resume should then be submitted to any Board member by Sept. 14, 2016 6PM. The candidate(s)' info will be published in the September Newsletter. The election as in the past will be conducted by the ADR panel members at the Annual meeting.

Please note that pool closing date will be extended to 2 weeks after Labor Day Weekend. Labor Day Monday will operate 10:30AM-7:30PM (normal time). Weekday schedules starting from 6th of September will be 3PM-7:30PM and on weekends 10:30AM-7:30PM. The last day for the pool for this year will be 18th of September. We have had a great 109 visitors in the month of May, 404 visitors in the month of June and 565 visitors in the month of July.

We have gathered some information regarding the Emerald Ash Borer that has been a topic of discussion for the past few years. The Board with the assistance of both our Landscaping Committee, Taylor Management Co and our tree vendor Davey Tree are reviewing the impact of this within our community. A video of the discussions during the town meeting can be viewed here <https://youtu.be/l8fGyUzWPC4>.

Please be mindful and considerate of your neighbors when walking your pets. We have had multiple instances where dog droppings are being left without being picked up in the common areas of Harding Green Drive. Please make sure that dogs are kept on leash while walking and that cats are not allowed outside of your home.

We are asking that all residents that park their vehicles down by the pool to regularly send the Board your license plate of the vehicle(s) so that we can keep a record of resident vehicles. We ask that residents send the Board an email notifying of any visitor vehicles parked down by the pool that may be parked 2 days or more. It will allow us to address any issues of any unidentified vehicles expeditiously.

Work on the Mailbox project has commenced and we ask for your patience while the mailboxes are being temporarily relocated. Some mailbox locations will be relocated to eliminate driveway obstruction.

Community Maintenance Activities

Wayne from L and W assisted with the tree canopy that fell on 6 Ash, removed the broken tree branch from the roof and installed temporary plastic to cover the hole in the roof and to cover the broken window. Wayne is also preparing the needed preparation for the installation of the new boxes around the community.

Cahill Cleaning has provided their weekly cleaning of the pool house bathrooms. They also cleaned up after an emergency back in the pool house bathrooms. Frank from F and W Plumbing unclogged this back up.

Country Nursery has provided their weekly landscaping services to the community as per their contract.

American Pool has provided their contractual services to the community.

Scott from Express Painting has provided the following services.....10 Sycamore and 2 Cedar unclogged gutters after heavy rain storm, 2 Birch various rotted siding replaced on roof line and chimney, 7 Beech various rotted siding replaced and then painted, 4 Hemlock front porch repairs expedited, 8 Beech inspected gutter overflow issue and installed flexible extension and elbow, 4 Sycamore purchased and installed new pressure treated 2x10 garage leg that was rotted, caulked and painted same. 8 Sycamore replaced rotted siding boards and caulked and painted same, guard rails at front entrance exit removed 4 rotted existing guard rails, purchased and installed 4 sections of guard rail with 2x10x10 foot pressure treated wood 3 per guard rail, painted guard rails, 4 Beech fixed damaged leader extension, 17 Beech per the green book

expedited 10% of rotting deck boards, 2 and 5 Walnut fixed gutters and leaders, 21 Sycamore replaced rotted siding on both sides of roof lines, primed, caulked and painted same, 3 Sycamore replaced rotted siding, primed and painted repaired siding.

Thank You

A large appreciation of thanks to all the volunteers that have assisted HGA Board in directing and maintaining HGA. From the Landscaping Committee members to all others that have volunteered their time and efforts for this community...we thank you.

Reminders

Residents are reminded that all work order and service requests MUST be directed to Dan Fitzpatrick, our property manager. Please when emailing Dan, cc the hgatrustees@yahoo.com email address. Dan's onsite hours will be Wednesdays from 2pm to 5pm at the Harding Green office. Dan can be reached at 973.267.9000 ext. 304 or dan@taylormgt.com at his normally scheduled hours.

Please be considerate of your neighbors and use your garage and driveways first before using cul-de-sac parking slots. Cars not used on a regular basis should be parked down by the pool parking lot.

Draft HGA Board General Meeting Minutes July 27, 2016

Meeting called to order at 7:45PM

Board Members present Michael Chou, Richard Bruno, Yuriy Gruzglin and Fenwick Garvey.

Sharon Grenard excused

Minutes

- Review minutes of previous meeting, No edits, Minute accepted unanimously

Treasure Report: As of 06/30/2016:

- operating account: \$95,953.32;
- capital reserve account:
 - a. money market account: \$79,521.99;
 - b. several CDs (~3%): \$635,000.00.

Board Items.

Financial

- Vote to move monies from the capital reserve fund to operating account to reimburse for the following projects:
 - a) chimney cover and cap replacement at 6 Poplar;
 - b) roof/chimney repair at 6 Beech.Approved unanimously.
- CD reinvestment: two CDs valued at \$125K (~3%) were called on 07/08/2016 and need to reinvest. Currently FISJ can offer CDs paying 2.5%; a motion was made to invest \$50,000 in CD paying 2.5% and decide how to invest the remaining funds after the Federal Reserve meeting in September; unanimously approved

New Vendor Approval:

- Motion was made to approve All County Sewer for work to clean main storm sewer pipe behind 8 Beech. Unanimously Approved.
- Chimney Works LLC approved for Chimney caps contingent on their providing proof of liability insurance and workmen comp.
- Unanimously Approved.

New contract with auditor Karen Sackstein. The auditor proposed a new annual contract: \$3,500. A motion was made to approve it; approved unanimously.

Project Reviews:

Landscaping Committee:

- Thanking the committee for their work.
- Board is committed to developing a master plan.
- However, incremental projects will be approved on a case by case basis as the Master Plan is developed.

Color Selection Update:

- Thanking the committee for their tireless effort. Vote was 7 for the SW Liama Wool, 2 for the Alexandria Beige and 1 abstention.
- Mr. Bruno apologized to Pam Carlson for miss-characterization of her vote.
- The Pool House shed has been painted in the winning color. The community is encouraged to take the time to view it.
- It will be put to the community for a vote during the October General Election for the Board of Trustees.
It requires 57 votes (half +1) to defeat the color change

Mailbox Replacement Project:

- New mailboxes have been approved by the Board
- They are being paid for out of reserve funds
- Work will begin in August
- Existing Mail Sheds that need to be moved will be placed on temporary stands during the installation process
- Some mailboxes will be moved to new locations' to eliminate obstructing driveways and minimizing the risk of being bumped
- Schedule completion by Mid-September (This has been updated to Mid Oct due to delay in final review of the project)
- 2 New Mail boxes will be added to make access to the mailboxes closer for the residents
- Each unit will be provided with 2 keys

Board of Trustees

- Thanked Fenwick for his service. He and his wife have purchased a home and moved Aug 9th. The Board wished Fenwick and his family well in their new home.
- His departure has created a vacancy on the Board.
- The Board has chosen not to appoint anyone to the vacancy due to the October General Election
- New Candidates interested in serving can submit their resume to the board. Their names will then be placed on the ballots for the new elections. The candidates with the highest number of votes cast will be elected
- The By-Laws and Covenant and Restrictions have NO provision for write-in candidates.
 - Vacancy can only be filled via election or appointed by a majority of existing board members.
 - There is NO minimum number of votes required to be elected

Items from the Floor

Discussion concerning the Master Plan. Again the board is committed to develop a Master Plan. It is important for the Harding Green Complex to maintain an uniform updated appearance.

The Master Plan drives capital investment, preventive maintenance and overall look of the community.

Watering of the entrance has become a major issue. It is physically demanding work and time consuming. Need to develop and automated system to eliminate the manual watering. That is contingent with getting access to water from residents from both Sycamore and Spruce. The Board will compensate them for the water usage.

A similar system was installed in the pool area.

Meeting was adjourned at 9:32pm.

CASH DISBURSEMENTS

Starting Check Date: 7/01/16 Cash Account #: "All"

Ending Check Date: 7/31/16

Check Date	Check #	Vend #	Name	Check Amount	Reference			
Cash account #: 100-000 AAB-Operating								
7/06/16	70001	AACS	ALL AMERICAN CHIMNEY SERVICE	1,120.00	CHASE COVER & CAP REPLACE			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4462	HG-040116	5/04/16	333-000	6/02/16	1,120.00	CHASE COVER & CAP REPLACE
7/06/16	70002	APM	AMERICAN POOL MANAGEMENT	9,129.28				
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4464	INV0166476	11/06/15	750-000	6/02/16	26.48	WINTERIZATION PLUGS
		4465	INV0178805	7/01/16	750-000	7/02/16	4,428.90	07/16-MLY MGT POOL CONTRA
		4466	INV0178804	6/01/16	750-000	6/02/16	4,428.90	06/16-MLY MGT POOL CONTRA
		4467	INV0179216	4/01/16	750-000	6/02/16	245.00	SALES TAX ON 2016 MGT CON
				Totals:			9,129.28	
7/06/16	70003	ARM	AMERICAN ROOF MAINTENANCE	294.25	5 POPLAR-INSPECTED LEAK D			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4463	7324	7/01/16	710-000	7/02/16	294.25	5 POPLAR-INSPECTED LEAK D
7/06/16	70004	HG-CAP	HARDING GREEN CAPITAL RES.	8,361.00	A6R-039535			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4459	070116	7/01/16	910-000	7/01/16	8,361.00	A6R-039535
		4459	070116	7/01/16	104-000	7/01/16	8,361.00	
		4459	070116	7/01/16	332-000	7/01/16	8,361.00-	
				Totals:			8,361.00	
7/06/16	70005	PR-PD	PETER RUBINETTI	2,166.60	07/16-MLY SVC			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4468	04214-062216	7/01/16	733-000	7/02/16	2,166.60	07/16-MLY SVC
7/06/16	70006	SG	SHARON GRENARD	153.96	ITEMS FOR BATHROOMS POOL			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4461	086-063016	6/30/16	710-000	7/01/16	153.96	ITEMS FOR BATHROOMS POOL
7/06/16	70007	TMC	TAYLOR MANAGEMENT COMPANY	3,584.00	MANAGEMENT FEE			

CASH DISBURSEMENTS

Starting Check Date: 7/01/16 Cash Account #: "All"

Ending Check Date: 7/31/16

Check Date	Check #	Vend #	Name	Check Amount		Reference		
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4458	070116	7/01/16	810-000	7/01/16	3,584.00	MANAGEMENT FEE
7/06/16	70008	TOP	TOP LINE ELECTRIC, INC.				2,813.20	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4469	1043	6/27/16	710-100	6/28/16	868.16	INST NEW SURFACE MOUNTED
		4470	1044	6/27/16	710-100	6/28/16	237.72	REP POLE MOUNTED LIGHT FI
		4471	1045	6/27/16	710-100	6/28/16	1,707.32	INST 2 NEW STREETWORKS TR
						Totals:	2,813.20	
7/13/16	70009	CBS	CAHILL BUILDING SERVICE LLC				321.00	CLEAN BATHROOMS
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4474	39047	6/30/16	710-000	7/02/16	321.00	CLEAN BATHROOMS
7/13/16	70010	DJ	DEBORAH JAMES				35.00	POLICY COMPENSATION
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4472	086-070516	7/05/16	727-000	7/06/16	35.00	POLICY COMPENSATION
7/13/16	70011	TCN	THE COUNTRY NURSERY INC				7,021.88	07/16-MLY MAINTENANCE
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4478	3170	7/01/16	725-000	7/02/16	7,021.88	07/16-MLY MAINTENANCE
7/13/16	70012	TDT	THE DAVEY TREE EXPERT CO.				7,671.90	SVCS PERF-TREE SURGERY
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4476	910277298	7/01/16	727-000	7/02/16	7,671.90	SVCS PERF-TREE SURGERY
7/13/16	70013	WL	WELCOMELINK				57.68	POSTAGE & STATEMENT
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4473	H012551-IN	6/30/16	830-000	7/02/16	57.68	POSTAGE & STATEMENT
7/13/16	70014	YG	YURIY GRUZGLIN				254.70	WEB HOSTING
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
		4477	086-070816	7/08/16	830-000	7/09/16	254.70	WEB HOSTING
7/13/16	70015	EPC	EXPRESS PAINTING CONTRACTORS				3,385.00	SIDING & DECK REPAIRS

CASH DISBURSEMENTS

Starting Check Date: 7/01/16 Cash Account #: "All"

Ending Check Date: 7/31/16

Check Date	Check #	Vend #	Name	Check Amount		Reference			
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4480	1416	6/19/16	333-000	7/02/16	3,385.00	SIDING & DECK REPAIRS	
7/13/16	70016	TMC	TAYLOR MANAGEMENT COMPANY				34.50	06/16-POSTAGE & COPIES	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4479	991275115	7/01/16	830-000	7/02/16	34.50	06/16-POSTAGE & COPIES	
7/20/16	70017	AHN	AT HOME NET				149.85	AHN PREFERRED-TOPS INTEGR	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4483	INV-22040	7/01/16	830-000	7/02/16	149.85	AHN PREFERRED-TOPS INTEGR	
7/20/16	70018	EJP	EJ PETERS CO INC				489.00	9 SPRUCE-INST BATT NETTIN	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4481	20	7/14/16	710-000	7/15/16	489.00	9 SPRUCE-INST BATT NETTIN	
7/20/16	70019	SMCMUA	SMCMUA				245.00	762510047000-040116-06301	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4485	47000-063016	6/30/16	615-000	7/02/16	245.00	762510047000-040116-06301	
7/20/16	70020	SMCMUA	SMCMUA				795.15	790132070000-032216-06241	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4486	70000-063016	6/30/16	615-000	7/02/16	795.15	790132070000-032216-06241	
7/20/16	70021	VER	VERIZON				145.22	973993596675404Y-060216-0	
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4487	5404Y-070116	7/01/16	625-000	7/02/16	145.22	973993596675404Y-060216-0	
7/27/16	70022	ARM	AMERICAN ROOF MAINTENANCE				3,236.75		
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4492	7328	7/19/16	710-000	7/20/16	294.25	16 BEECH-STORM DMG SHINGL	
		4493	7327	7/19/16	710-000	7/20/16	2,942.50	STORM DAMAGE REPAIR	
		-----						Totals:	3,236.75
7/27/16	70023	JCP&L	JERSEY CENTRAL POWER & LIGHT				637.53		
		Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference	
		4488	95394790292	7/15/16	610-000	7/16/16	12.45	100006521494-061516-07131	
		4489	95394790269	7/15/16	610-000	7/16/16	228.10	100006486086-061516-07131	
		4490	95394790260	7/15/16	610-000	7/16/16	272.90	100006484693-061516-07131	
		4491	95394790244	7/15/16	610-000	7/16/16	124.08	100006481400-061516-07131	

CASH DISBURSEMENTS

Starting Check Date: 7/01/16 Cash Account #: "All"

Ending Check Date: 7/31/16

Check Date	Check #	Vend #	Name	Check Amount	Reference
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Totals: 637.53

Totals: 52,102.45

Cash account #: 100-001 ACB Bank-Operating

7/01/16 20361 HGOPER HARDING GREEN OPERATING 75,000.00 TRANSFER FUNDS TO AAB

Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
4460	070116	7/01/16	100-000	7/01/16	75,000.00	TRANSFER FUNDS TO AAB

7/19/16 20362 HGOPER HARDING GREEN OPERATING 40,000.00 TRANSFER FUNDS TO AAB

Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
4484	071916	7/19/16	100-000	7/19/16	40,000.00	TRANSFER FUNDS TO AAB

Totals: 115,000.00

Cash account #: 104-000 Cash in Capital FISN

7/15/16 1072 (M)HGOPER HARDING GREEN OPERATING 4,405.00 REIMB-RESIDING

Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
4494	071516	7/15/16	160-000	7/15/16	4,405.00	REIMB-RESIDING

7/27/16 1073 (M)HGOPER HARDING GREEN OPERATING 4,066.50 REIMB-ALLAMERICAN CHIMNEY

Vchr-#	Invoice-#	Inv-date	Acct #	Eff-date	Amount-paid	Reference
4501	072716	7/27/16	160-000	7/27/16	4,066.50	REIMB-ALLAMERICAN CHIMNEY

Totals: 8,471.50

-- End of report --

New Jersey Fact Sheet: Emerald Ash Borer (January 2013)

Introduction

The Emerald Ash Borer (EAB) is an exotic insect from Asia that has invaded North American forests and is becoming increasingly detrimental to ecosystem health. First detected in Michigan in 2002, EAB has infested various species of ash in Illinois, Indiana, Maryland, Ohio, Pennsylvania, Wisconsin, Missouri, Virginia, Minnesota, New York, Kentucky, Iowa, Kansas, Tennessee, Massachusetts, Connecticut, and West Virginia as well as Ontario and Quebec, Canada. While EAB has not been detected in New Jersey, natural resource professionals and forest owners are continuing to monitor for this damaging forest pest. Because EAB occupies many neighboring states, its presence in New Jersey's woodlands may be inevitable. Unfortunately, EAB may inhabit an area for several years before being detected. Careful monitoring and early management are recommended in order to protect and preserve New Jersey's forest habitats from an EAB infestation.

Impacts of EAB in New Jersey

Feeding on white ash (*Fraxinus americana*), green ash (*Fraxinus pennsylvanica*), and black ash (*Fraxinus nigra*), EAB can have significant economic and ecological impacts. When EAB infests individual trees, vital tissues are destroyed, potentially killing the tree in less than two years.

According to the U.S. Forest Service's 2008 Forest Inventory for New Jersey, ash is present on 24 percent of the state's forested land. It generally makes up less than 25 percent of all live trees in a stand and is rarely the most abundant species. Several ash species make up almost 8 percent of all trees in the neighboring state of New York. Ash timber is valued for its use in several wood products, including baseball bats, furniture, lumber, and pallet manufacturing. New Jersey's naturally growing ash trees are commonly found throughout the state's northern and central regions; however, ash is a popular species planted in urban areas and has been used to replace native elms lost to Dutch Elm Disease. In Michigan and other locations where EAB is already present, the greatest economic impact



Adult Emerald Ash Borer (USDA, Forest Service, fs.usda.gov)

has fallen on communities faced with the removal of tens of thousands of dead ash on streets and in yards.

Signs and Identification of EAB

Adult emerald ash borers are dark metallic green in color, and have a coppery red or purple abdomen. Individuals are $\frac{3}{8}$ to $\frac{5}{8}$ inch long and $\frac{1}{16}$ inch wide. Adults may be active from late May to September, but are typically observed in June and July. Although adults can be seen with the naked eye, they are sometimes difficult to find, especially at low infestation levels. At the larval stage, individuals are small and creamy white in color. They typically burrow under the bark, making them even more difficult to spot. The first sign of an infestation may be a thinned crown, but the best way to detect an EAB infestation is by removing the bark and observing the larvae's expanding S-shaped galleries. As individual beetles mature and emerge, they leave a distinctive D-shaped exit hole in the outer bark of the tree. Because the signs and symptoms can be similar to other diseases, it is important to consult an approved forester or qualified natural resource professional to aid in identification.

Monitoring and Prevention

New Jersey forest owners, including public and private landowners, can consider working with the United States



(From left to right) The first sign of an EAB infestation is yellowing of the crown (Steven Katovich, USDA Forest Service, bugwood.org) and eventual death of ash trees (Daniel Herms, Ohio State University, bugwood.org). Other signs include expanding S-shaped galleries made by the larvae (Steven Katovich, USDA Forest Service, bugwood.org) and D-shaped exit holes excavated by emerging adults (Debbie Miller, USDA Forest Service, bugwood.org)

Department of Agriculture (USDA) on surveying and monitoring efforts aimed at early detection of this insect. Foresters as well as volunteers can easily deploy baited traps and establish “trap trees” in an attempt to determine if EAB is present in a forest stand.

Since adult beetles are not particularly strong fliers, spread is typically caused by transportation of infested and untreated wood products. Restricting the movement of these wood products, including firewood, is recommended to help prevent the introduction and spread of EAB.

Management Options

A landowner can reduce the risk of an EAB infestation by using certain management techniques. Selective felling, cutting, girdling, or herbicide application can reduce the abundance of ash while shifting species composition to other native trees. Typically, preventive management activities will work to enhance the health of

a forest stand while preserving ecological and economic integrity. These management techniques may be incorporated into a Forest Stewardship Plan, and may include:

- Selective felling and cutting of unhealthy or low-vigor ash trees
- Preserving individual trees that have strong, live crowns
- Reducing the overall cover of ash species in a forest stand
- Controlling native ash regeneration by selectively removing seedlings and allowing for other native trees to become established

Silviculture experts in Wisconsin have developed additional guidelines based on the percentages of ash within individual woodlots. The percentages are based on basal area, or the total area of the cross sections of all trees in a stand. These specific management techniques for different ash compositions, adapted from the Wisconsin Department of Natural Resources (*WI DNR, August 2008*), can help reduce the risk of an EAB infestation while promoting overall forest health. It is important to consult an approved forester or other natural resource professional for proper guidance before implementing management activities.

Management in Established Stands Where Ash Is Less Than 20% of the Basal Area

Remove low-vigor ash trees to increase and promote diversity of other species, while preserving healthy ash trees. An approved forester can assist with selective removal of low-vigor trees by following standard silvicultural guidelines. Some silvicultural practices will lead to increased ash regeneration, which may require additional control treatments in order to keep the stand's



Adult beetles are small, making them hard to detect, especially at low infestation levels (Howard Russell, Michigan State University, bugwood.org)

UGA1241011



Mixed hardwood forests containing ash species (left) (John Parke, NJA) can be managed to prevent an EAB infestation with a Forest Stewardship Plan. Green ash (middle) (Tom DeGomez, University of Arizona, bugwood.org), white ash, and black ash are all susceptible to an EAB infestation. In New Jersey, monitoring efforts set traps (right) (Kenneth R. Law, USDA, APHIS, PPQ, bugwood.org) in order to detect the insect early.

susceptibility to an EAB infestation low. Herbicide applications can help maintain ash seedlings at an appropriate level.

Management in Established Stands Where Ash Is 20 to 40% of the Basal Area

If possible, reduce the percentage of ash to less than 20% while maintaining a fully stocked stand dominated by other tree species exhibiting good health and vigor. Stands may require multiple treatments to reduce the ash to an appropriate level while maintaining adequate stand stocking. Follow-up treatments to control excessive ash regeneration may be needed.

Management in Established Stands Where Ash Is Greater Than 40% of the Basal Area

Stands with a large percentage of ash (such as a bottomland, swamp, or plantation) may be heavily impacted by EAB unless ash species are drastically reduced. When planning harvest activities, consider the following:

1. Shorten the rotation age for harvestable ash trees
2. Consider silvicultural methods that allow for complete stand conversion to other species tolerant of the site conditions

If practical, reduce the ash abundance during regularly scheduled management activities while preserving high diversity and forest health. Other species that are competing with healthy trees may also be removed during EAB management activities. Stands may require multiple entries to reduce the ash to an appropriate level. Active treatment of ash regeneration, as noted earlier, may be necessary, and it is important to consider planting or seeding other tree species that can tolerate the site conditions.

When working in a wetland, it is important to follow New Jersey’s *Forestry and Wetlands Best Management Practices Manual*.

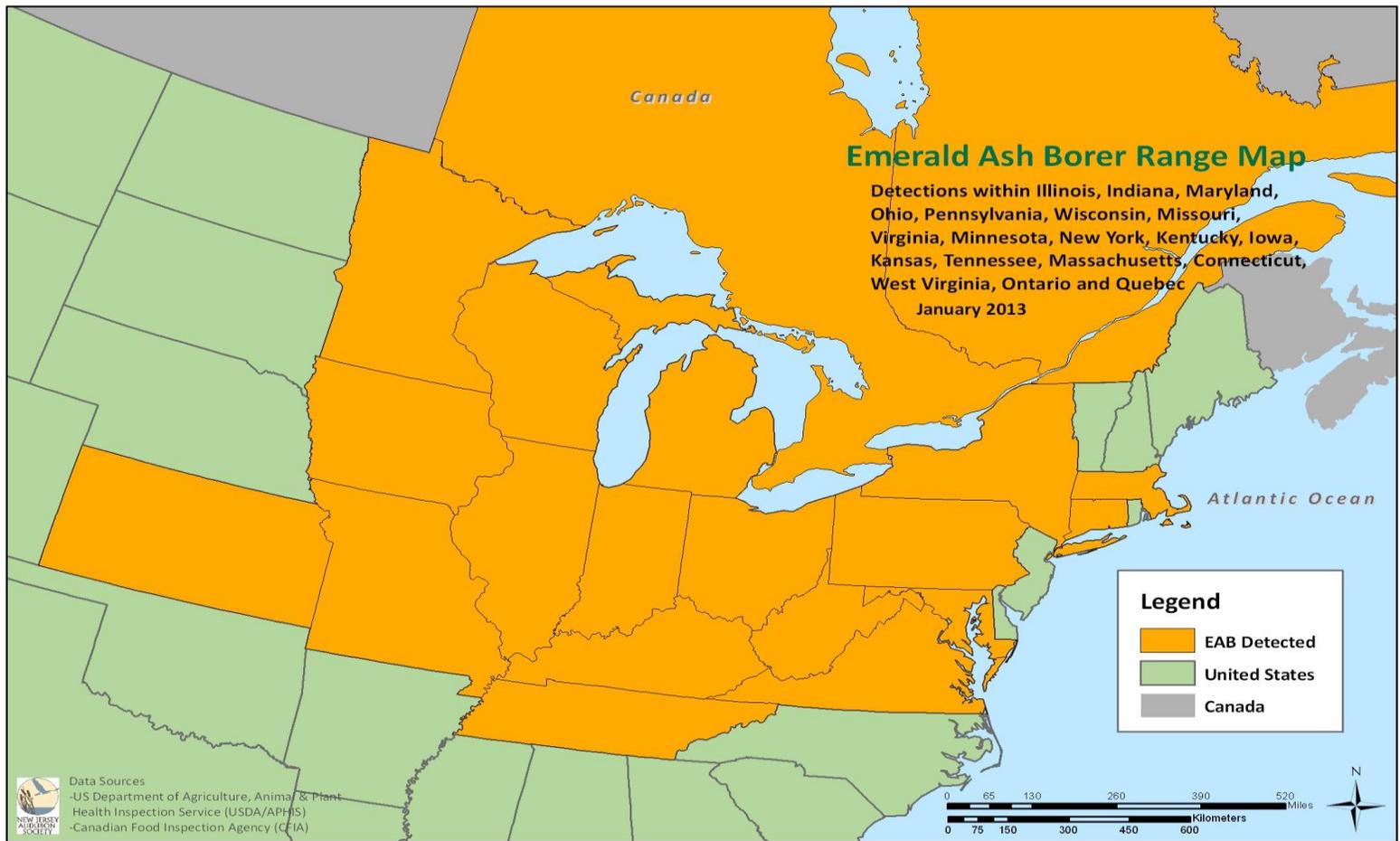
Technical and Financial Assistance

A Forest Stewardship Plan will usually present the best options for management based on the landowner’s goals and the current site conditions. The landowner is generally responsible for the cost of development and implementation of a Forest Stewardship Plan. However, qualifying landowners in New Jersey have several options for obtaining technical and financial assistance. The Natural Resources Conservation Service (NRCS) offers technical and financial assistance to forest landowners through the Environmental Quality Incentives Program (EQIP). Eligible landowners with 10 acres of land may receive cost-share assistance for the development and implementation of a Forest Stewardship Plan.

NRCS office locations and more detailed information about NRCS assistance and the EQIP program can be found at: www.nj.nrcs.usda.gov/



An important method to prevent the spread of EAB is by restricting the movement of wood products, including firewood (Don Donnelly, NJA)



For More Information:

General Information on NRCS Forestry Programs
www.nj.nrcs.usda.gov/technical/forestry/index.html

Information on NRCS EQIP Program
www.nj.nrcs.usda.gov/programs/eqip/forestry.html

Locating an NRCS TSP
<http://techreg.usda.gov/CustLocateTSP.aspx>

General Information on Emerald Ash Borer
<http://www.emeraldashborer.info/index.cfm>

US Forest Service – EAB
<http://na.fs.fed.us/fhp/eab/>

US Department of Agriculture, New Jersey's Forests
http://www.nrs.fs.fed.us/pubs/rb/rb_nrs59.pdf

NJDEP, Division of Parks and Forestry – EAB Info
http://www.nj.gov/dep/parksandforests/forest/community/Emerald_Ash_Borer.htm

NJ Statewide Forest Resource Assessment and Strategies
<http://www.stateforesters.org/files/NJ-Assess-Strategy-20100810.pdf>

NJ Forestry and Wetlands Best Management Practices Manual
www.state.nj.us/dep/parksandforests/forest/nj_bmp_manual1995.pdf

List of NJDEP-Approved Consulting Foresters
www.state.nj.us/dep/parksandforests/forest/ACF.pdf

Wisconsin Department of Natural Resources – EAB Info and Management Guidelines
http://datcpservices.wisconsin.gov/eab/articleassets/Management_Guidelines_for_Wisconsin_Forests.pdf

New York Department of Environmental Conservation – EAB Info
<http://www.dec.ny.gov/animals/7253.html>

Pennsylvania Department of Conservation and Natural Resources – EAB Info
http://www.dcnr.state.pa.us/forestry/fpm_invasives_EAB.aspx

Maryland Department of Agriculture – EAB Info
<http://www.mda.state.md.us/plants-pests/eab/>

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