

**CHARTER TOWNSHIP OF MERIDIAN  
ENVIRONMENTAL COMMISSION AGENDA  
Wednesday, December 3, 2014  
Town Hall Room  
Meridian Municipal Building  
5151 Marsh Road, Okemos, MI 48864**

**Work Session**

1. Call the work session to order at 6:30 p.m.
2. Approval of the work session agenda
3. Review of the minutes of the November 5 2014 work session/regular meeting
4. Other business
5. Public remarks
6. Adjournment

**Regular Meeting**

1. Call the regular meeting to order at 7:00 p.m.
2. Approval of the regular meeting agenda
3. Approval of the minutes of the November 5, 2014, work session/regular meeting
4. Green Themes presentation by Rick Brown, AICP, CBSP entitled **"The Meridian Township Greenspace Plan, a Decade Later."**
5. Public remarks
6. Chair's Report
7. Communications/staff report
8. Other Business
  - a. Replacing/replanting street trees
  - b. Meeting with the Township Board on 1/6/15
  - c. Suggested Green Theme speakers/topics for 2015
9. Study groups/liaison reports
  - a. Land Preservation (Jim Kielbaso)
  - b. Energy Team (John Sarver)
  - c. Parks (Bill McConnell)
10. Public remarks
11. Adjournment

## WORK SESSION

**PRESENT:** Chair Jackson and Commissioners Scherbarth, Kielbaso, McConnell, Sarver, Schools, and Searl

**ABSENT:** None

### STAFF

**PRESENT:** Richard F. Brown, Jr., AICP, Associate Planner

### OTHERS

**PRESENT:** None

1. **CALL WORK SESSION TO ORDER**

Chair Jackson called the meeting to order at 6:30 p.m.

2. **APPROVAL OF THE WORK SESSION AGENDA**

- **MOTION** by Commissioner Scherbarth to approve the work session agenda. Supported by Commissioner Kielbaso. Approved 7-0.

3. **REVIEW OF THE MINUTES OF THE OCTOBER 1, 2014 WORK SESSION AND REGULAR MEETING**

Several minor corrections were noted.

4. **OTHER BUSINESS**

Discussion between staff and the Commissioners about a possible anti-idling policy or ordinance. Staff to try to respond to questions at the December meeting.

Commissioner Scherbarth asked for updates on several past topics. Associate Planner Brown responded to each. Staff to look for the tree cover report from Kevin Sayers of the MDNR and a contact person from the Meridian Garden Club.

5. **PUBLIC REMARKS**

None

6. **ADJOURNMENT**

**MOTION** by Commissioner McConnell to adjourn the Work Session. Supported by Commissioner Kielbaso. Approved 7-0. Work Session adjourned at 6:57 p.m.

**CHARTER TOWNSHIP OF MERIDIAN  
ENVIRONMENTAL COMMISSION MINUTES  
Meridian Municipal Building  
November 5, 2014 - draft**

**REGULAR MEETING**

**PRESENT:** Chair Jackson and Commissioners Searl, Scherbarth, McConnell, Schools, Sarver, and Kielbaso

**ABSENT:** None

**STAFF**

**PRESENT:** Richard F. Brown, Jr., AICP, CBSP Associate Planner

**OTHERS**

**PRESENT:** Jeff Hukill of the MDEQ, Planning Commissioner John Scott-Craig, and Township Clerk Brett Dreyfus.

**1. CALL REGULAR MEETING TO ORDER**

Chair Jackson called the meeting to order at 7:00 p.m.

**2. APPROVAL OF THE REGULAR MEETING AGENDA**

- **MOTION** by Commissioner McConnell to approve the agenda. Supported by Commissioner Kielbaso. Approved 7-0.

**3. WELCOME RE-APPOINTED COMMISSIONER SCHOOLS BACK**

Chair Jackson welcomed her back to the Commission.

**4. REVIEW AND APPROVAL OF OCTOBER 1, 2014 WORK SESSION AND REGULAR MEETING MINUTES**

- **MOTION** by Commissioner Scherbarth to approve the minutes with corrections. Supported by Commissioner Sarver. Approved 7-0.

**4. GREEN THEMES PRESENTATION ENTITLED "BROWNFIELD REDEVELOPMENT" BY JEFF HUKILL OF THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

Among the options available is a free Brownfield Site Assessment to communities in Michigan. Five available per year and only one has been requested thus far – offered on a first come-first serve basis.

Questions and answers with Mr. Hukill from the Environmental Commission, as well as from John Scott-Craig and Clerk Dreyfus.

**5. PUBLIC REMARKS**

None

6. **CHAIR'S REPORT**

Reminder that the Green-up Conference is taking place on November 12<sup>th</sup> at the Kellogg Center.

9. **COMMUNICATIONS/STAFF REPORT**

Associate Planner Brown summarized the following:

- The fall recycling event and Greater Lansing solar tour were a success.
- The county bike trail millage passed.
- The 20 trees were planted as part of the ITC Grant.
- Tonight's power point is already available on the Commission's website.

10. **OTHER BUSINESS**

a. 2015 meeting schedule resolution:

- **MOTION** by Commissioner Kielbaso to approve the resolution. Supported by Commissioner Scherbarth. Approved 7-0.

b. Replacing/replanting street trees:

- Commissioners Scherbarth and Kielbaso summarized their findings. Thus far, Discount Trees is most interested firm in participating. The Commission requested staff provide a copy of the Ingham County Road Department's list of approved street trees.

c. Comments on the master plan update:

- Commissioner McConnell summarized the discussion at the Planning Commission. **MOTION** by Commissioner McConnell to forward the document prepared by Commissioner Sarver to the Planning Commission and to offer Commissioner Sarver's expertise if they have questions. Supported by Commissioner Kielbaso. Approved 7-0.

11. **STUDY GROUPS/LIAISON REPORTS**

Commissioner Sarver updated the Commission on the Energy Team meeting and on the topic of LED streetlights.

12. **PUBLIC REMARKS**

None

13. **ADJOURNMENT**

- **MOTION** by Commissioner Kielbaso to adjourn the Regular Meeting. Supported by Commissioner Scherbarth. Approved 7-0. Meeting adjourned at 9:03 p.m.

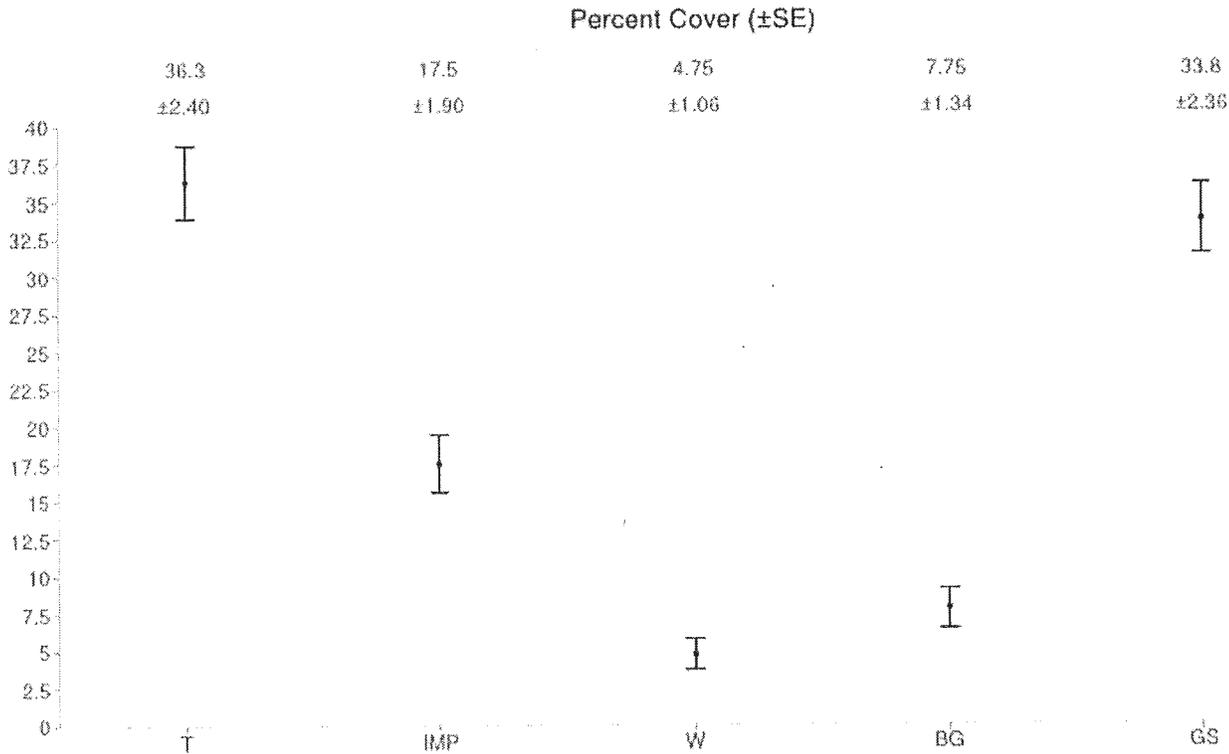


Tools for Assessing and Managing  
Community Forests

# i-Tree Canopy v6.0

## Cover Assessment and Tree Benefits Report

Estimated using random sampling statistics on 3/12/14



Cover Class	Description	Abbr.	Points	% Cover
Tree	Tree, non-shrub	T	145	36.3 $\pm$ 2.40
Impervious	Roads, Driveways, parking lot etc.	IMP	70	17.5 $\pm$ 1.90
Water	Water	W	19	4.75 $\pm$ 1.06
Bare Ground	Dirt	BG	31	7.75 $\pm$ 1.34
Grass and Shrub	Grass, shrub other veg.	GS	135	33.8 $\pm$ 2.36

**Tree Benefit Estimates**

Abbr.	Benefit Description	Value	±SE	Amount	±SE
CO	Carbon Monoxide removed annually	\$0.00	±0.00	0.00 oz	±0.00
NO2	Nitrogen Dioxide removed annually	\$0.00	±0.00	0.00 oz	±0.00
O3	Ozone removed annually	\$0.00	±0.00	0.00 oz	±0.00
PM2.5	Particulate Matter less than 2.5 microns removed annually	\$0.00	±0.00	0.00 oz	±0.00
SO2	Sulfur Dioxide removed annually	\$0.00	±0.00	0.00 oz	±0.00
PM10*	Particulate Matter greater than 2.5 microns and less than 10 microns removed annually	\$0.00	±0.00	0.00 oz	±0.00
CO2seq	Carbon Dioxide sequestered annually in trees	\$0.00	±0.00	0.00 oz	±0.00
CO2stor	Carbon Dioxide stored in trees (Note: this benefit is not an annual rate)	\$0.00	±0.00	0.00 oz	±0.00

*i-Tree Canopy Annual Tree Benefit Estimates based on these values in lbs/acre/yr and \$/T/yr: CO 0.902 @ \$85.08 | NO2 4.917 @ \$26.86 | O3 48.968 @ \$140.47 | PM2.5 2.379 @ \$5,975.67 | SO2 3.098 @ \$7.45 | PM10\* 16.403 @ \$304.43 | CO2seq 9,807.385 @ \$19.43 | CO2stor is a total biomass amount of 297,489.961 @ \$19.43*

*Note: Standard errors of removal amounts and benefits were calculated based on standard errors of sampled and classified points.*

**About i-Tree Canopy**

The concept and prototype of this program were developed by David J. Nowak, Jeffery T. Walton and Eric J. Greenfield (USDA Forest Service). The current version of this program was developed and adapted to i-Tree by David Ellingsworth, Mike Binkley, and Scott Maco (The Davey Tree Expert Company).

**Limitations of i-Tree Canopy**

The accuracy of the analysis depends upon the ability of the user to correctly classify each point into its correct class. As the number of points increase, the precision of the estimate will increase as the standard error of the estimate will decrease. If too few points are classified, the standard error will be too high to have any real certainty of the estimate.

A Cooperative Initiative Between:



www.itreetools.org

## **“MERIDIAN GREEN THEMES”**

AN ENVIRONMENTAL EDUCATION SPEAKER SERIES PROVIDED BY THE ENVIRONMENTAL  
COMMISSION SINCE 2004 FOR THE RESIDENTS OF MERIDIAN TOWNSHIP

<b>YEAR</b>	<b>SPEAKER/PRESENTER</b>	<b>DATE</b>	<b>TOPIC/TITLE</b>
2014	Rick Brown, AICP, CBSP Meridian Township Associate Planner	12/3/14	Meridian Township Greenspace Plan: A Decade Later
2014	Jeff Hukill Michigan Dept. of Environmental Quality	11/5/14	Brownfield Redevelopment
2014	Ned Jackson, Ph.D. Michigan State University	10/1/14	Green Chemistry
2014	Heather Seyfarth, AICP Clean Energy Coalition	9/17/14	Becoming a Solar-Ready Community
2014	Yvonne LeFave Go Green Trikes, LLC	5/7/14	Kickstand & Deliver
2014	Marcia Horan, East Lansing Commission on the Environment	3/5/14	Our Common Interests
2014	Cynthia Stump, ITC, Inc.	1/15/14	ITC's Tree Grant Program
2013	Christine Spitzley, AICP Tri-County Regional Planning Commission	10/2/13	ByProduct Synergy
2013	Amy Moore Ingham County Health Department	9/4/13	Tobacco-free Parks
2013	John Sarver GLREA and former State Energy Director	5/1/13	Alternative Energy in Michigan
2013	Ashley Hale of CATA	4/17/13	Clean Commute 2013
2013	Dana Kirk, Ph.D, P.E. Michigan State University	3/6/13	MSU's Anaerobic Digester
2013	Erin Campbell and Christie Alwin Tri-County RPC and the State of Michigan	2/6/13	Regional Stormwater Management
2013	Gilbert White, Realtor	1/16/13	Placemaking
2012	Rick Brown, AICP, CBSP Meridian Township Associate Planner	12/19/12	Protecting the Night Environment: Benefits of Dark-Sky Standards
2012	J. Paul Swartz MSU Campus Arborist	10/17/12	Porous Rubber Pavement
2012	Deborah Alexander CATA Deputy Director	10/17/12	New Intermodal Rail/Transit Center
2012	Ed Schools Michigan State University	5/16/12	Using NEXRAD to Track Bird Migration
2012	Harmony Gmazel, AICP Tri-County Regional Planning Commission	4/18/12	Mid-Michigan HUD Sustainability Study
2012	Mark Kieselbach Meridian Township Planning Director	3/21/12	Health Impact Assessments
2012	David Mindell	2/15/12	Prescribed Burns
2012	Julie Powers Mid-MEAC	1/18/12	Lansing Walkability Audit
2011	Christine Spitzley Tri-County Regional Planning Commission	11/16/11	Wellhead Protection Audit Toolkit
2011	Tim Potter and Leonard Provencher Mid-Michigan Active Transportation Coalition	10/19/11	Mid-Michigan Active Transportation and Friends of Meridian Pathways
2011	Jeremiah Asher Michigan State University	9/21/11	Networked Neighborhoods for Eco- Conservation
2011	Kelly Bernero, Society for Environmentally Responsible Facilities	5/18/11	Energy Efficient Buildings Recognition Program
2011	Jessica Yoriko	3/16/11	Environmental Justice

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	Ingham County Health Department		
2010	Shawn Riley of MSU	11/17/10	Deer Management
2010	Steve Earley of CLEAResult	10/20/10	Single-family Home Energy Savings
2010	Laura Donahue	7/21/10	Helping those on the Gulf Coast
2010	GEO 821 Graduate Students from MSU	4/21/10	Practicum project report on non-motorized transportation
2010	Laryssa Kaufman of MSU	3/17/10	Control of Pfragmites
2009	Jan Nelson and Sue Warren Lansing Board of Water & Light	12/16/09	Renewable Energy & BWL's Solar Array
2009	Ivan Principe and Mark Lesiw Consumers Energy	10/21/09	Smart Metering
2009	Ray Severy, P.E. Director of Public Works & Engineering	9/16/09	Meridian Township's Pathway System
2009	Harmony Gmazel, AICP Tri-County Regional Planning Commission	5/20/09	Tri-County Potential Conservation Area Report
2009	Dave Smitley Michigan State University	4/15/09	Emerald Ash Borer
2009	Jessica Yorko Mid-MEAC	3/18/09	Red Cedar Adopt-a-Stream & Walk-Bike Lansing
2009	Leslie Kuhn Michigan State University	3/18/09	Invasive Species
2009	Mike Monfils Michigan State University	2/18/09	Wetlands
2008	Le Roy Harvey, Township Recycling Coordinator	12/17/08	Status of recycling in Meridian Township/regional green initiatives
2008	Rick Brown, AICP Meridian Township Associate Planner	11/19/08	Floodplain Resources
2008	Professor Russ Freed Michigan State University	10/15/08	Biofuels for Michigan
2008	Professor Jim Detjen Michigan State University	9/17/08	Environmental Journalism
2008	Robert Plunkett of Urban Options	2/22/08	How to Achieve Energy Savings
2007	Cathleen Edgerly of CATA	10/17/07	Clean Commute Options & Smart Commuting
2007	Rick Brown, AICP Meridian Township Associate Planner	8/29/07	Wetland Regulations in Meridian Township
2007	MSU Professor Bradley Rowe, Ph.D.	5/16/07	Green Roofs
2006	Tonia Olsen of Granger	12/6/06	Recycling in Meridian Township
2006	Christine Spitzley Tri-County Regional Planning Commission	11/11/06	Groundwater Protection
2006	Ray Severy, P.E. Director of Public Works & Engineering	3/15/06	Phase II NPDES requirements
2005	Students from Resource Development 415 at Michigan State University	12/7/05	Comparative analysis of land use options on the N. Okemos Rd project
2005	Martha Knorek Ingham County Recycling Coordinator	2/16/05	Ingham County Recycling Programs
2004	Rick Brown, AICP Meridian Township Associate Planner	9/15/04	Meridian Township Greenspace Plan