

Illinois Fox River Chain O Lakes is one of the busiest inland recreational waterways in the United States. Only an hour's drive from Chicago, Milwaukee, and Rockford, and with over 7,100 acres of water, 15 lakes, 45 miles of river and over 488 miles of shoreline. This "Key West of the Midwest" accommodates every water-borne activity including boating, swimming, tubing, waterskiing, hunting, fishing, and appeals to everyone. Chicago land's playground for over 100 years also boasts some of the best restaurants, marinas, several State Parks and other entertainment venues and events unique only to the Fox River Chain O'Lakes.



# FOX WATERWAY AGENCY

- Created in 1984 by Illinois State Legislature
- Became a Permanent State Agency in 1995 by Referendum
- Created to coordinate the efforts of State, Federal, and Local Governments to improve and maintain the waterway (615ILCS 90/7.1)





# FOX WATERWAY AGENCY

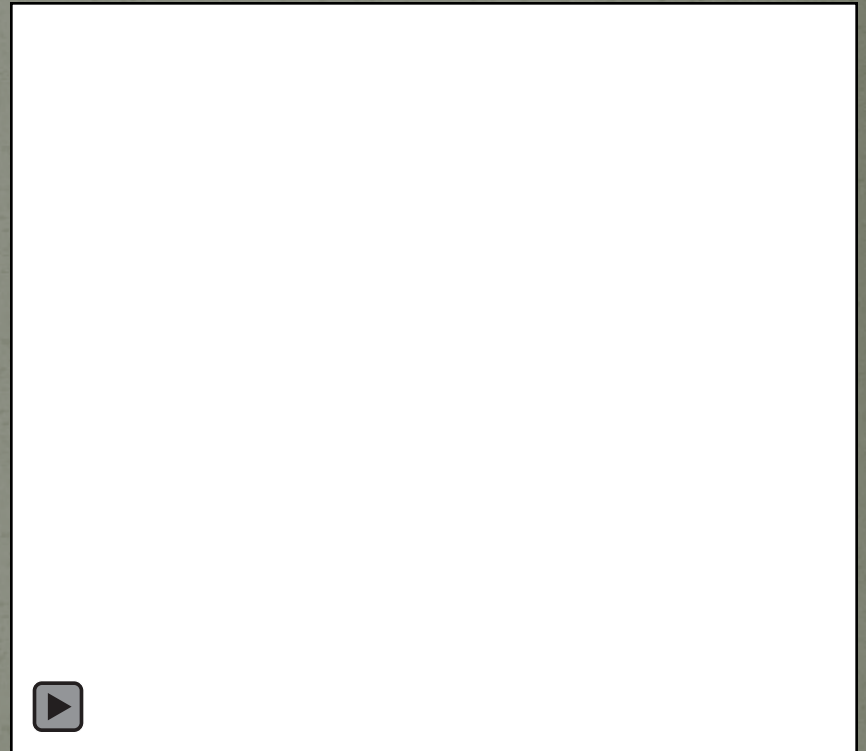
## Mission:

To improve and maintain the Fox River and Chain O' Lakes public waterway for recreational uses, to restore environmental quality, control flooding, promote tourism, and to preserve and enhance the quality of life along the waterway for residents and users alike.



# Fox Waterway Agency Field Operations Programs

- Navigation-Public safety
- Debris Removal
- Dredging
- Bank Stabilization
- Habitat
- Duck-blinds
- System Maintenance
- Multi Agency Cooperation





# FUNDING



## Fox Waterway Agency

45 S. Pistakee Lake Rd. • Fox Lake, IL 60020  
(847) 587-8540 • Fax (847) 587-9742  
www.foxwaterway.com

### User Fee Schedule

Effective April 1, 2013

**PROCESSING FEE** - A \$10.00 FEE WILL BE CHARGED TO BOATERS NOT USING THEIR CURRENT RENEWAL FORMS OR TO APPLICANTS FILLING OUT A NEW FORM. A \$5.00 FEE WILL BE CHARGED TO NEW APPLICANTS ONLY. TEMPORARY PERMITS ARE EXEMPT. PER FWA CODE 4.02(C).

**OUT OF STATE FEE** - A fee of \$40.00 per permit will be charged for boats registered out of the State of Illinois. One day and ten day permits are exempt. Proof of State registration may be required.

**CLASS X** - Non-motor powered boats 17 feet or less in Length \$ 10.00

**CLASS L** (Livery boats) - a fleet of 10 or more boats less than 17 feet in length and less than 25 HP. Office purchase only - Applies to commercial use only \$ 30.00

**CLASS O** - Non-motor powered boats of more than 17 feet in length \$ 40.00

**CLASS A** - Motor powered boats of 15HP or less \$ 40.00

**CLASS B** - Motor powered boats over 15 HP, not exceeding 25 feet in length \$ 80.00

**CLASS P** - Personal watercraft (jet skis) \$ 80.00

**CLASS C** - Motor powered boats over 15HP, and greater than 25 feet in length, not exceeding 30 feet in length \$ 140.00

**CLASS D** - Transferable plate for dealers and antique boats (30 or more years of age) \$ 140.00

**CLASS E** - Motor powered boats over 15 HP and greater than 30 feet in length \$ 175.00

**CLASS W** - Any boat involved in waterfowl hunting activity, WITH OUT A CURRENT STICKER. Available August 15 thru March 31, yearly. A current valid hunting license is required to purchase a sticker, as well as any applicable out-of-state fees. (processing fee applicable after 2003). \$25.00

|                                |                |              |                                 |         |
|--------------------------------|----------------|--------------|---------------------------------|---------|
| <b>1 DAY TEMPORARY PERMIT</b>  | <b>CLASS J</b> | Up to 25 ft. | To be used on day issued.       | \$15.00 |
|                                | <b>CLASS K</b> | Over 25 ft.  | Good for 24 hours.              | \$30.00 |
| <b>10 DAY TEMPORARY PERMIT</b> | <b>CLASS F</b> | Up to 25 ft. | To be used 10 consecutive days. | \$45.00 |
|                                | <b>CLASS H</b> | Over 25 ft.  |                                 | \$90.00 |

**LOST STICKERS** - The holder of a User-Fee Sticker that has been lost, shall be re-issued a User-Fee Sticker for the balance of the year upon the filing of and Application and payment of a \$15.00 fee. Proof of original purchase is required. (Please Note: Lost stickers can only be processed at the Fox Waterway Agency Office)

**TRANSFER POLICY** - There is a \$5.00 charge for a transfer in addition to any charges for an upgrade in class. Applies to original owner only. Original stickers must be presented when applying for transfer

**DUPLICATE PURCHASES** - Refunds requested for duplicate permit purchases for the same boat and same owner, shall be issued upon proof of duplicate purchase and return of one permit in reusable condition. The refund will be for the sticker fee only, less a \$15.00 fee. Requests for refunds must be made within a reasonable length of time. (Please Note: Duplicate stickers can only be processed at the Fox Waterway Agency Office)

**REFUND POLICY - NO REFUNDS** - will be issued after April 1st of each boating season

**RETURNED CHECK POLICY** - A \$30.00 fee will be applied to all returned checks

**PLEASE NOTE:** Satellite Stations will charge a service fee in addition to the above rates.

- Does not have a line item on the State Budget
- Does not get any property tax dollars
- Operates on a Usage Sticker
- Grants/Bonds Project Specific
- Sale of Material

# WATERSHED

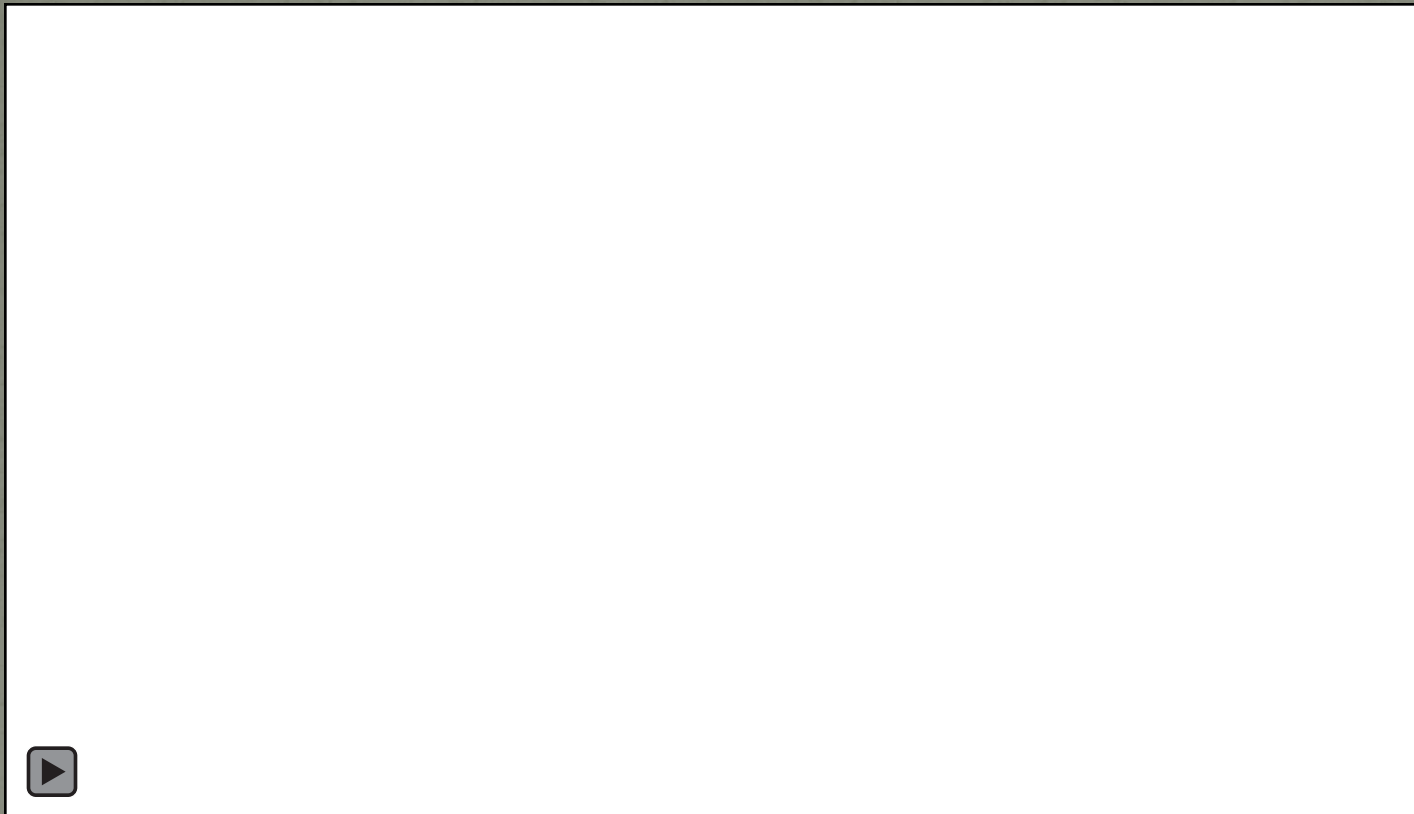






**Every year an estimated 100,000  
cubic yards of sediment wash  
into the Fox River Chain –O-  
Lakes System**









# The Agency uses two different methods to remove material

**Mechanical**

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**Hydraulic**

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# Fox Waterway Agency Operates 2 Mechanical Crews





# A Mechanical Crew Generally consists of .....

AMPHIBIOUS EXCAVATOR



BARGE AND PUSH BOAT



BARGE UNLOAD SITE



TRUCKS AND A DUMPSITE





# FWA Dredging Techniques

- Direct loading
- Hopper Barges
- Stock piling
- "Dry" dredging







**Direct loading is when an excavator will excavate the material directly from the channel and put it right into a truck**





**Barge loading is the method using amphibious excavator loading a hopper barge and pushing the barge to a dedicated load out site.**







**Stock Piling is when the material is too wet to put directly into a truck and is put into a temporary stockpile to dry.**





**Dry dredging is when the channel is drained and the channel bottom exposed to be removed directly by excavator**





# Hydraulic Dredging



- Dewatering Facilities
- Geo bags
- Island Reclamation





# Fox Waterway Hydraulic Dredges

- 12X10" Barracuda
- 10" IMS 4010
- 6" Dino





**The FWA currently operates 2 Upland Dewatering Facilities.  
The dredge pumps material into a containment site to dewater  
and will be removed when dry.**







# Ackerman Island Dewatering Facility







# Ackerman Island

- Built 1985
- Holds 35,00 cubic yards of material
- Strategically Located
- Emptied bi-annually
- It's an island so we have to bridge out to it every year
- Restrained by time. FWA can only gain access to empty the island during winter months







# Full Ackerman Island







# Ackerman







# Ackerman

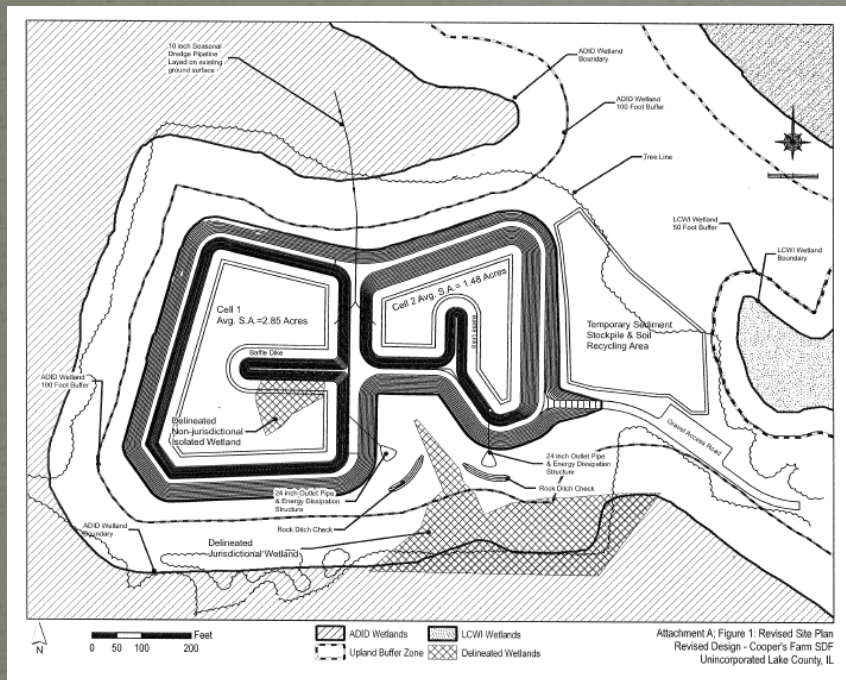






# Cooper Farms

- Sediment Storage and Dewatering facility
- 130,000 cubic yard storage capability
- Emptied bi-annually
- Site next to the storage cells to support the recycling of material.
- Strategically located
- Access year round







# Cooper Farms





# Cooper Farms is centrally located to address main navigational dredging







# Island Reclamation

**The Agency hydraulically pumps material to reclaim eroded islands and provide habitat.**



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(847)985-7685



# Grass Island Wetland Restoration Project

- Reclaimed a 27 acre Island to provide sanctuary for the Forester Tern
- Installed 6,700 linear feet of geo tubes
- 27,000 cubic yards of material pumped into geo tubes
- Island was first of its kind to be constructed in ice conditions for permanent installation







# Grass Island

- Interior of Island holds 120,000 cubic yards of material
- Island has provided great habitat for the Forester Tern and even some other migratory birds





# Grass Island





**Grass Island did very well surviving and establishing all that Mother Nature can throw at it. Then came the “Human Factor”. Boats and snowmobiles found their way to the Island causing severe damage to the tubes.**





**The Agency's solution to the "Human Factor" was to hard armor the perimeter of the Island. Over 15,000 tons of rip rap was placed around the perimeter of the island**







# Grass Island







# Grass Island







# Grass Island







# Geo Bags

- Geo Bags can be very cost effective used in the right application
- Some projects can create a 50% reduction in material to be trucked away
- Areas that were once off limits due to access points by the traditional larger equipment can now be accessed with smaller dredges and pumped further away to Geo bags











# Geo bags



- Bags can be hauled away sometimes in as little as days of dewatering
- The fabric cut from the bags is often reused for road liner or scuff liner for shoreline protection
- This type of dredging has a much smaller footprint than other types of dredging practices. Smaller equipment, less man power, less truck traffic.



# Geo Bags









# Geo Bags

- Geo Bags can be wintered and pumped into the following year
- Unless your neighbors get them first.....







# Where does it all go?

- For years the Agency had to pay "tip" fees to dispose of the material
- The Agency now operates it's own sites





# TESTING, TESTING, TESTING AND MORE TESTING.....



- System wide testing
- Testing before we dig
- Testing while at dump site
- Nutrient testing when being blended
- TACO 1 certified





# Drying Sites







# How is this all funded

The Fox Waterway Agency recycles its dredge material to be sold for premium topsoil. This offsets the very expensive task of dredging. The "Wisconsin Topsoil" is in very high demand and has been used in almost every application you can think of....



The Agency may also sell its dredging materials from the waterway as reclaimed topsoil.

At least 75% of the gross income collected under this Section shall be used exclusively for projects designed to maintain and improve the waterway. Such projects may include, but are not limited to, dredging, site acquisition for silt deposit, water safety, and water quality projects. Any funds which have not been expended by the end of a fiscal year may be accumulated in a revolving fund.

(Source: P.A. 96-960, eff. 7-2-10.)



# Once dried the material is blended and screened







# Athletic Fields



- Football Fields
- Baseball Fields
- Golf Course





# Farm Land



- Farmers use the material to reintroduce nutrients to their fields



# Mud 2 Gardens



(AP/John Marlin)

Chain O'Lakes area top soil that eroded into the waterway will help local citizens grow productive gardens.

A program that brings mud dredged from Illinois rivers to communities for creating gardens is coming to two Chicago suburbs.

State and local officials announced Monday that a series of community gardens will be created in Broadview and Maywood.

Illinois Natural Resources Director Marc Miller says the Fox River Waterway Agency is dredging the mud from the Chain O'Lakes area. He says top soil that eroded into the waterway will help local citizens grow productive gardens. About 500 cubic yards of mud is being dredged.





# GARDENS

“Attached are some pictures from Lawrence Hall Youth Services Garden Project. As you can see, the beds are filled with dirt and we’re growing our seedlings inside. Thanks to the Fox Waterway Agency for the great soil! We’ll be excited to show you more pictures once the youth have planted in the garden beds. We are growing pumpkins, cucumbers, tomatoes and more!”

Kim Luckey

Vice President, Donor and Community Relations

Lawrence Hall Youth Services







# Local Government

The FWA supplies other government agencies top soil at no cost. Saving the Agencies and tax payers money.





# Mud to Parks

**The Agency recently entered into an agreement with the IDNR to supply the Chicago Park District with 11,000 yards of material to be used at a new park being built in Little Village.**



The new park is being built at an old Super Fund Site known as the Honeywell- Celotex Site.

Currently under construction. Plans for the new park include: a community garden, two basketball courts, soccer fields, canopy, baseball fields, restrooms and skate park.



# The material that went to the park came from Ackerman Island Facility.

Traditionally the costly tasks to empty the Island falls on the Agency. The trucking expense associated with this project were funded by the State. This huge cost savings by the Agency will allow the Agency to put the savings back into the System for future projects.





# Rena Park



- The Fox Waterway Agency recently restored a series of channels in Antioch Township. Trucking costs are very expensive and travel time to dumps sites can cause operation costs to sky rocket.
- Antioch Township had 40 acres of vacant land across the street from the channels. This area was to be a park with ball fields. They currently did not have the funding to take on the task of the large scale earth moving operation to make the land into the park
- The Agency and the township entered into an agreement. The Township would allow the Agency use of the land to dump, dry and process the sediment for several years.
- In return the Agency will build the park for the township.
- This intergovernmental cooperation saved both agencies a enormous amounts of money and both the people of Antioch Township and the users of the waterway will greatly benefit.



**The material is put into rows to blend the material before being processed into topsoil**





# Processing the once dredge material into premium topsoil

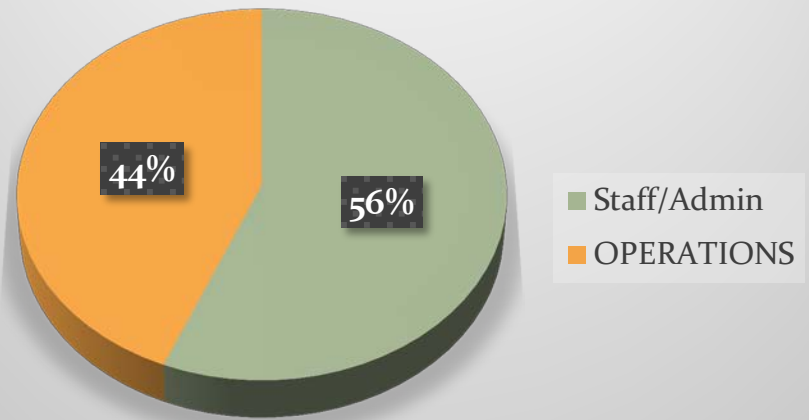




# Funding

- On Average FWA works with \$1.6 million annually
- \$900,000 Staff/Admin
- \$700,000 Operations

## BUDGET



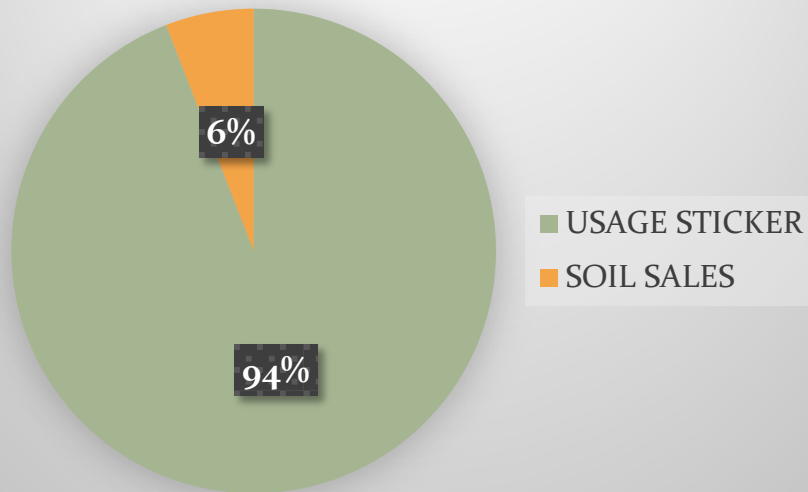


# 2014 Budget

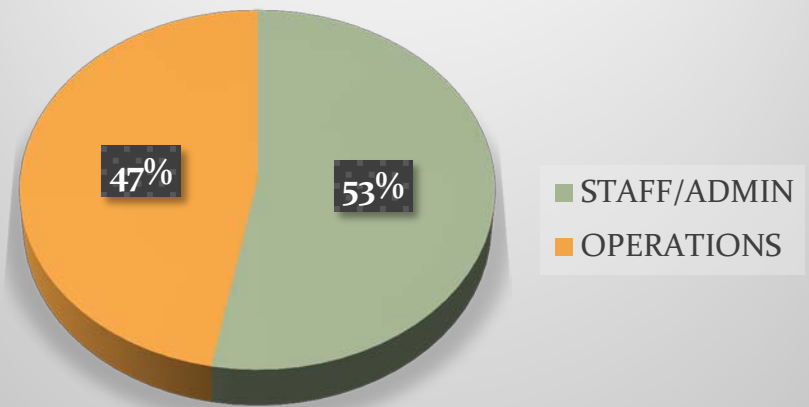
EXPECTING \$100,000 FROM  
SOIL SALES

- \$900,000 STAFF/ADMIN
- \$800,000 OPERATIONS

## PROJECTED INCOME



## BUDGET BALANCE



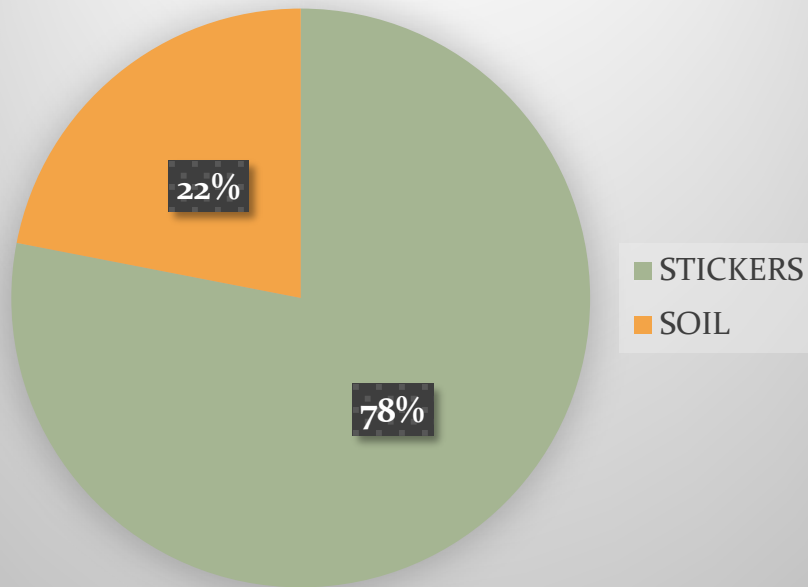


# NEW PROJECTED INCOME 2014

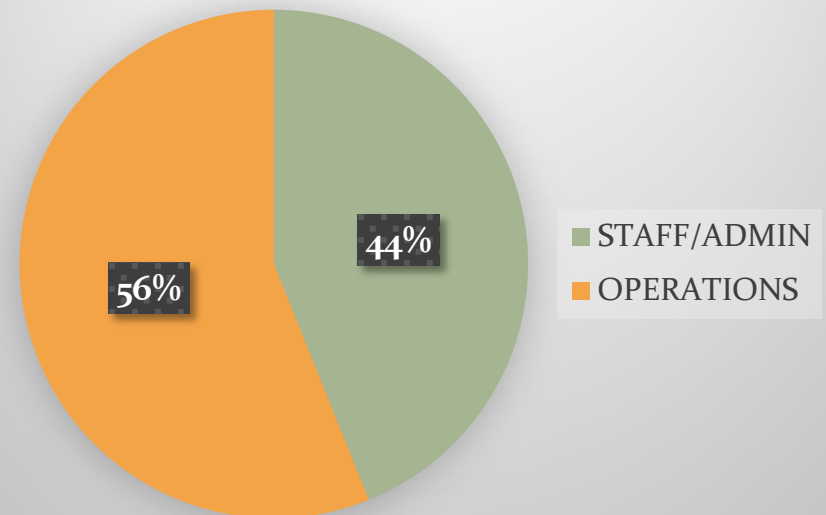
\$450,000 Soil Sales

- \$900,000 Staff/Admin
- \$1,450,000 OPERATIONS

## INCOME



## BUDGET BALANCE

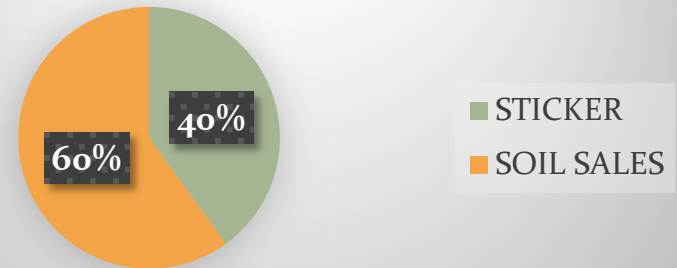




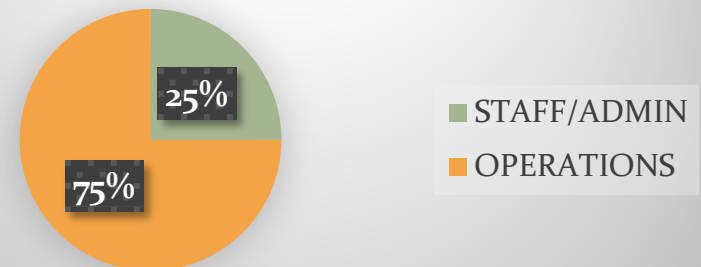
# 2020 GOALS

- SELL 200,000 Yards of topsoil annually
- \$2.4 million in reuse
- Trucking Answer –
  - " 1 out 2 in"
- Open 100+ acre Facility to work material

## INCOME



## BUDGET BALANCE





# Green and Going

**The Fox Waterway recycles almost all of its products from the above listed programs. Keeping operating costs down**

- Dredge material is recycled and sold for top soil. "Wisconsin Top Soil"
- Debris pulled out is ground up and made into wood chips, mulch and compost.
- Tires recycled
- Geo bags are reused in several ways. The fabric is used for roads and scuff liners for rip rap placement.
- Even the damaged buoys are reused to patch dredge pipe and bumpers for equipment

