

Ohio Department of Natural Resources

Division of Forestry FY99 Annual Report



Forest Cover - 1994



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FORESTRY ADVISORY COUNCIL

(As of 6 / 31 / 99)

MEMBER

GROUP REPRESENTING

Mary Donaldson

Small Private Forest Landowner

Jackson Hedges

Public

Andrew Adelman

Other Forest Industry

John Gerlach

Soil / Forest Science

Harvey Graves

Pulp and Paper Industry

Gary Kaster

Forest Recreation

William T. Lawhon

Large Private Forest Landowner

Vacant

Forest-based research



Division Overview

ODNR Division of Forestry Programs

The Division of Forestry is authorized in Section 1503 of the Ohio Revised Code (ORC). This section details many of the division's programs, from state forests' and the fire control program to the Shawnee Wilderness Area.

Included in these provisions of the ORC is the creation of the Forestry Advisory Council, an eight-member body appointed by the governor. One member is appointed to represent each of the following interests: forest-based research activities, small private forest landowners, large private forest landowners, the pulp and paper industries, other forest industries, soil science, forest recreation, and the public at large. The council advises the chief of the division and makes recommendations concerning forestry and division programs.

Based upon the ORC and advice from the council, the Division of Forestry has developed this mission statement to guide its programs:

"The mission of the ODNR-Division of Forestry is to protect and manage Ohio's forest resources through partnerships emphasizing the stewardship ethic to assure these resources will be available for future generations."

The many services offered are focused to accomplish the division's stated mission. Division personnel are constantly refining the programs to provide a service that is both valuable and cost efficient.



Highlights

- **State Forest Operations**

The State Forest System expanded this year with the acquisition on 1,313 acres of forestland, bringing the total land base to 182,730 acres.

Important capital improvement projects included the renovation of 4 dams at Shawnee State Forest with roller compacted concrete (RCC), the closure of the Mohican Wood Treatment Facility, and the structural assessments of the former fire lookout towers.

Division personnel assisted with the clean up of a devastating flood in Washington County in June of 1998.

The division combined operations at Tar Hollow and Scioto Trail State Forests in an effort to realize greater efficiencies and reduce costs.

The 8,000-acre Shawnee Forest Backcountry Management Area, adjacent to Shawnee Forest Wilderness Area, was created.

- **State Forest System**

Tornado damaged timber at Blue Rock State Forest was salvaged in a cooperative harvest with the Mead Corporation.

The Mohican Ad Hoc Council submitted recommendations to the Division of Forestry for future management of Mohican-Memorial Forest.

The division harvested 3,885,723 BF and 8,478 tons of hardwood and softwood from 1,425 acres of state forests (0.78% of total acres).

As a result of the severest drought in the last 50 years, two very active fire seasons resulted in 1,197 fires burning 5,536 acres in the southeast Ohio Wildfire Protection Area.

- **Recreation**

An estimated 165,975-state forest visitors used various state forestlands and facilities during FY99. Millions more casual travelers and observers traveled through state forests for their scenic enjoyment.

- **Wildlife Protection**

Division personnel supported Inter-Agency Wildfire efforts with employees traveling to Florida, Texas, Idaho, Pennsylvania, and Michigan during the year. Of particular note was the Florida fire disaster and the assistance provided by 2 crews from Ohio.

- **Service Forestry Assistance**

Service foresters assisted 3,792 landowners with the completion of 837 Stewardship Plans on 38,466 acres. Foresters also assisted landowners with the planting of 1,061,000 trees.

Assistance to private landowners has been affected by the loss of the Stewardship Incentives Program (SIP) funding. Funding has also been greatly reduced in the Forestry Incentives Program (FIP).

- **Urban Forestry**

The Urban Forestry Program celebrated 20 years of service. For the 17th consecutive year, Ohio led the nation with the number of Tree City USA communities, with 219 designated communities. These communities planted 39,119 trees, pruned 110,373 trees and removed 22,663 hazardous trees for a total expenditure of \$27,213,813

- **Forest Health**

Forest Health Program activities were numerous including continuation of the State Forest Health Monitoring program (9 of 26 plots re-measured), elm yellows survey, Entomophaga maimaiga plot monitoring, Pine shoot beetle population monitoring, various activities with white pine, and a Street Tree Evaluation Project with the Urban Forestry Program.

- **Forest Health Conditions**

Gypsy moth defoliation and forest health conditions were aggravated this year due to the drought conditions late in the fiscal year. Gypsy moth defoliation was reduced due to generally wet conditions until late in the fiscal year.

- **Forest Products Utilization**

The Forest Products Utilization Program hosted the annual Utilization and Marketing conference for the northeastern states, highlighted with a trip to the Longaberger Basket Company.

- **Windbreak Planting**

The Northwest Ohio Windbreak Program planted 36 new windbreaks totaling 150,000 row feet. Since starting in 1977, the program has been responsible for the planting of 631 row miles of windbreaks, and over 400,000 trees.

- **Nursery Operations**

State nurseries at Zanesville and Marietta grew and sold 5,058,375 seedlings last year through 2,542 individual orders. Significant sales were made to American Electric Power to their Climate Challenge Tree Planting Program, the Mead Corporation, and the Division of Mines and Reclamation for the AML Program.

- **Information and Education**

The Information and Education Section continued usual activities involving Project Learning Tree, the Ohio State Fair, the Paul Bunyan Show, the Farm Science Review, ODNR's Adopt-A-School program, the Fall Color Reports, the Forest Heritage Festival, the Hocking Fall Color Tour as well as numerous day to day requests for division Information and data.

- **Revenues**

The Federal Excess Personal Property Program acquired and assigned \$981,462 worth of equipment to co-operating volunteer fire departments, bringing total assistance to \$3,258,260 since the program was rejuvenated 3 years ago.

- **Expenditures**

Division Revenues remained fairly steady for the year with the General Revenue Fund (GRF) providing the bulk of division funding (77% - \$9,022,312). Tree seedling sales, forest product sales, lease/license payments, and other miscellaneous payments accounted for (12% - \$1,407,626). Federal grant assistance provided the remainder of division revenues (11% - \$1,149,243).

Standing timber sales generated \$1,439,631, of which \$1,068,176 was shared with local school districts, counties, and townships.



INDIVIDUAL PROGRAM ACCOMPLISHMENTS

STATE FOREST SYSTEM

State Forest Operations



The State Forest system expanded with land acquisitions from willing sellers to a total of 182,730 acres. The largest purchase (1,122 acres) was for the Beaver Creek State Forest in Columbiana County. Other lands were added to Brush Creek, Pike and Zaleski State Forests.

State forest open houses were conducted, at which annual or biennial plans, projects, and activities for seven state forests were presented. Constituents, forest neighbors, elected officials, and others discussed issues and programs with state forest managers and district management staff.

State forest crews refurbished 173 miles of known state forest boundaries, performed maintenance on the equivalent of 1,321 miles of roadway and 1,035 miles of recreational trails, 1,266 acres of grounds maintenance, and replaced or repaired 1,355 signs. State forests conducted 126 safety meetings and performed 179 vehicle inspections. Personnel also received pulmonary function/respirator fit testing, first aid/CPR, and voluntary Lyme disease vaccinations.

Equipment purchases included several dump trucks and trailers, forest officer patrol vehicles, pickup trucks, mowers, chainsaws, portable radios, and other office, communications, and support items.

NatureWorks Capital Improvement projects completed or nearing completion included: Shawnee office wastewater system renovation, Fernwood and Harrison water supply renovation, Mohican office and Memorial Shrine water supply renovation, upgrade and repairs to four Shawnee State Forest dams, closure of the Mohican treating facility, and structural assessments of former fire lookout towers.

Projects with construction pending included southern facilities restoration from the March 1997 flood event and Shawnee bridge renovation. Projects continuing under design included Hocking bridle trail improvements, Athens district office replacement, and Perry APV area dam. The initial phase of Shawnee and Fernwood State Forests boundary protection (surveys) were completed with another phase planned at these areas and at Brush Creek and Perry State Forest. The Mohican-Malabar Regional Plan was in preparation through a consultant. Former underground fuel storage tank site assessments/monitoring/closures continued.

Ohio Department of Transportation (ODOT) Cooperative Roadway projects and/or purchases included completion of the Zaleski State Forest low water bridge and Waterloo bridge, roadway and aggregate surfacing and paving at Brush Creek and Shawnee State Forests. Also at Shawnee, several prefabricated bridge decks and box culverts were installed. Resolution of several state forest boundary problems progressed with Real Estate and Land Management (REALM) and DOE survey staff, while other problem areas were discovered.

State forest personnel accomplished a myriad of diverse activities, including forest land management, recreation facility maintenance, wildland fire protection (state and private wildlands), law enforcement (state forest rules and forest fire), wildland fire prevention and training, and forestry information and education, as well as the necessary chores and organizational demands of bureaucracy, human services activities, meetings, etc.



***THE FOLLOWING ADDITIONAL REPORTS ARE PROVIDED BY THE
RESPECTIVE DISTRICTS:***

Athens - District 4

- Division of Forestry personnel and equipment spent a couple of weeks clearing debris in Washington County after a devastating June flood, which also inflicted extensive damage to the roads in and around Shade River State Forest. State forest and nursery personnel collected 868 bushels of white pine cones at Gifford State Forest producing a total of 434 lbs. of seed.
- A latrine was constructed at Airplane Rock in Hocking State Forest and a picnic shelter was built at Richland Furnace State Forest. The Hocking County Ohio Horsemen's Council (OHC) and Off-Road Vehicle Users paid for the architectural plans and permits respectively, and State forest personnel constructed the facilities. The Hocking Fall Color Tour and Zaleski Rural Ohio Appalachian Revisited (R.O.A.R.) event attracted 2,100 people, with 565 touring the forest by hay wagon and learning about state forest management. A mechanical thinning of the A-41 white pine plantation was completed in Zaleski State Forest. A Timco harvester and a low ground-pressure forwarder demonstrated the economic thinning of pine with excellent Best Management Practices (BMP's), and promising application to private lands.

Chillicothe - district 5

- A number of retirements and personnel changes occurred during the year, providing new challenges to the molding of the division/district for the coming years. Significant time continues to focus on evaluating current work and determining the mix of staff, facilities, and equipment that will be needed to accomplish tasks and provide services in the future.
- The combining of staff at Tar Hollow and Scioto Trail State Forests has proven effective, providing greater efficiency than the former district structure. An expanded centralized crew works on projects for the two forests as well as on larger projects throughout the district.
- Weather events continued to create a deviation from the norm. The floods of the previous year carried projects over into FY99 and the drought condition extended the spring fire season, slightly curtailing normal planned work projects.

District 6 - Shawnee State Forest

- Four of the five lakes in the forest had their dams renovated, three of which involved hardening the structure through a somewhat unique application of roller compacted concrete (RCC). This major undertaking required the removal of a portion of each dam, followed by installation of the RCC, and recovering with soil and re-seeding. The new RCC surface provides an erosion resistant surface in the event of water overtopping the dam. The flora and fauna received added protection through the establishment of the Backcountry Management Area, which included restricting motor vehicle access to Forest Roads 5 and 7. Prescribed burning was conducted on seven acres along Forest Road 9 to promote the growth of endangered and threatened plants. Forest Road 1 received asphalt resurfacing to complete its renewal.



Ohio's State Forest Acres
(As of June 30, 1999)

STATE FOREST	Acres gain/loss	TOTAL ACRES	County
Beaver Creek	1,122	1,122	Columbiana
Blue Rock		4,578	Muskingum
Brush Creek	86	13,207	Adams, Pike, Scioto
Dean		2,745	Lawrence
Fernwood		3,023	Jefferson
Gifford		320	Athens
Harrison		1,345	Harrison
Hocking		9,266	Hocking
Maumee		3,103	Fulton, Henry, Lucas
Mohican-Memorial		4,498	Ashland
Perry		4,567	Perry
Pike	2	12,086	Pike, Highland
Richland Furnace		2,528	Jackson, Vinton
Scioto Trail		9,600	Ross, Pike
Shade River (1)		2,760	Meigs
Shawnee		63,254	Adams, Scioto
Sunfish Creek		637	Monroe
Tar Hollow		16,120	Ross, Vinton, Hocking
Yellow Creek		756	Columbiana
Zaleski (2)	103	27,215	Vinton, Athens
TOTALS	1,313	182,730	

- (1) Includes Meigs Sand Abatement Project
- (2) Includes Waterloo Forest



State Forest Land Management



Ohio's state forests are managed under the multiple use concept. Emphasis is placed on demonstrating how long term forest management can enhance recreation, aesthetics, wildlife habitat diversity and air and water quality, while producing a profitable growth of timber. Suggested revisions to the Land Management Manual that guides this process are being reviewed and will be presented to the Chief of the Division of Forestry during FY'00 for approval. Mineral management is also a Land Management activity.

The Bureau of Land Management (BLM) owns 75% of the minerals under most of Tar Hollow State Forest while the Division of Forestry owns 25% of the rights on most of the same area. Kastle Resources continues to drill for Rose Run Gas and has a couple of active wells on Tar Hollow. Site restoration/rehabilitation is progressing there as well as on Columbia Gas storage well sites at Mohican and Hocking State Forest.

At Shawnee State Forest, a Back Country Management Area (approximately 8,000 acres) was established to further protect endangered species and develop habitat diversity. A controlled burn was conducted to enhance habitat for state endangered and threatened plant species. A revised forest map was developed for public distribution and a Field Day was conducted for area school children. Fieldwork was also conducted to inventory the forest resource on Shawnee State Forest.

Timber damaged from a tornado at Blue Rock State Forest, and Shawnee State Forest, were both salvaged. Due to a moratorium on commercial logging at Mohican Memorial State Forest, storm damaged timber was not salvaged.

Six thousand seedlings were planted in the Perry State Forest APV area by local school children. The forest crew planted 28 acres of recently acquired agricultural land at Brush Creek State Forest. A silky dogwood planting was conducted at Mohican State Forest as a cooperative effort between the National Wild Turkey Federation, Division of Forestry, Division of Wildlife, and Columbia Gas.

Recommendations were submitted by the Ad Hoc Committee at Mohican State Forest regarding the future management of the forest. ODNR Director, Samuel W. Speck, accepted the recommendations in full with one exception; that commercial logging be employed to accomplish the proposed management. A five-year plan is to be developed by the Division of Forestry during the next year based on these recommendations.

Danzil Walker was selected to replace Bill Serbonich as Land Management Forester (LMF) in Athens and Jim Mickey was hired to work as a Forester at Zaleski State Forest. Forest Health Training was attended by the LMFs at Canters Cave and the LMFs also attended an under story plant workshop at Dow Lake.

Timber Revenues			
	Tons	(BF)	(\$)
Hardwood Stumpage	2,372	3,641,156	1,655,980.06
Hardwood Products	63	76,992	24,402.26
Pine Stumpage	6,002		26,069.68
Pine Products	20		519.22
Timber Damage	21	154,548	42,712.66
Totals	8,478	3,885,723	1,751,988.88

Forest Management Activities	
Activity	Acres
Tree Planting	45
Forest Stand Improvement	370
Cruising*	73,434
Marking	1,615
Harvesting	1,425
Selective	1,271
Clearcut	154
Wildlife Openings	260
Timber Sales	1,175
Closed/BMPs	
*Includes natural stand, planted stand, damage/infestation, Shawnee Forest Inventory, and other cruising (See Narrative Section)	



Recreation



The Division of Forestry continues to provide dispersed backcountry recreation primarily non-facility oriented, such as horseback riding, hunting/fishing, hiking, APV riding, mountain biking, rappelling, etc. Statistics are provided on the accompanying tables.

Several potentially unsafe or environmentally challenging sections of trails were re-routed. Many others were re-marked and maintained in general both by the forest crews and in partnerships with user groups.

State Forest Recreational Trails	
Use	Mileage
Bridle (may also hike)	288
Hiking	73
APV	39
Snowmobile	7
Cross Country Ski	22
Mountain Bike*	21
Backpack	83
Total	533
*Mountain bikes may also be ridden on the APV trails. The 21 miles are shared with horse riders at Scioto Trail.	



State Forest Recreational Activities	
Activity	Number of Users
Backpackers	5,865
Horse Campers	8,228
Family Campers	1,176
Hunter Campers	537
APV riders	8,553
Snowmobilers	79
Horseriders	27,268
Hunters/Anglers	23,794
Hikers	64,868
Gun Range Users	4,141
Rock climbers/Rapellers	5,879
Mountain Bikers	1,490
Harvesters	2,108
Others	11,989
Total	165,975



Wildfire Protection



In last year's annual report it was noted that it has been about ten years since Ohio has experienced an active fire season. Historical records also indicate that active wildland fire seasons occur about every 10 years in Ohio. Historical trends did not let us down, we had a very active fire season with a total of 1,197 fires burning 5,536 acres. The fall season produced 262 fires burning 991.3 acres and the spring season had 935 fires burning 4,544.7 acres.

This active fire season coincides with the severest drought in over 50 years for Ohio. The hardest hit portions of the state have been in southeastern and southern Ohio where the majority of our fires occur. Spring fire season typically ends by the first of May, but the impact of the drought was so severe that fires continued to actively burn through May and June. Many of these fires totally consumed the available fuel and this resulted in extreme fire behavior. Long-range forecasts indicate the drought will continue and an active fall fire season is anticipated.

Keeping accurate date of all the fires has been greatly improved with the development of a new Microsoft Access based program. The program is on the network and is accessible to all the district offices. This allows for daily updates of statistics statewide. Reports are much easier to produce and can be done almost instantly. This program eliminates much of the frustration and time associated with producing reports and keeping track of statistics.

Mike Bowden, the division's fire training coordinator, presented several training sessions for the division, state, federal, and other agencies this year. These include: S-200 (Initial Attack Incident Commander), S-212 (Saws), Incident Qualifications System (IQS), S-290/390 (Fire Behavior), Prescribed Fire Workshop, Rx-300 (Burn Boss), S-130/190 (Basic Firefighter and Fire Behavior), Interagency Fire Crew Refresher (March, April, May), S-339 (Division/Group Supervisor), and a Basic 6 hour course for the Corps of Engineers. Mike also finished the revision of the Ohio Basic 6-hour course used for fire departments.

Ohio was chair of the Middle Atlantic Interstate Forest Fire Protection Compact in 1998. Responsibilities included; the coordination of fire training, fire prevention, and other Compact meetings. Training sessions sponsored by the Compact were I-348 (Resource Unit Leader, Sept. 1998), S-339 (Division Supervisor, Feb. 1999), I-356 (Supply Unit Leader, Feb. 1999), and Rx-300 (Burn Boss, June 1999).

During the fiscal year, the division sent several personnel to Florida, Texas, Idaho, Pennsylvania and Michigan. In support of the Florida fires and in cooperation with the Ohio Interagency Coordination Group, the division sent one 20-person fire crew, a 12-person engine crew and engine, and one supervisory person. The division also sent five overhead supervisory personnel to Texas, Idaho, Pennsylvania and Michigan.

The Federal Excess Property Program (FEPP), Administered by Rick Maier, screened \$943,185.53 worth of equipment and assigned \$981,461.81 to rural fire departments. Since the FEPP position became full-time, equipment totaling \$3,258,260 has been received and \$2,569,500 has been assigned.

The Ohio Rural Fire Council, in cooperation with the Division of Forestry, sponsored a fall conference for rural fire departments November 14, 1998 at Marietta State Nursery. Several educational sessions were held throughout the day with approximately 60 attendees. The Council has been working to establish an Ohio Fire Services Caucus for the past three years, but has not been successful. Emphasis will shift towards finding a way to expand the FEPP program statewide.

The Incident Command System (ICS) Steering Committee continues to provide support for state agencies and other organizations that are implementing ICS. Training sessions have concentrated on I-100 and I-200. In support of this effort, the Steering Committee has produced an 11-minute video about ICS in Ohio. Distribution of over 6,000 copies will be accomplished in 1999.



Forestry technical assistance

Service Forestry Assistance



This fiscal year has been an unsettled one for the Service Forestry Program. The program has been affected by the lack of dollars for federal cost-sharing programs and the many personnel changes that occurred during the year. Both of these factors had an impact on the overall output of the program.

The surprise elimination of the Stewardship Incentives Program (SIP) by Congress and the continued reduction of the Forest Incentives Program (FIP) funds have had an impact on the way we do business in the Service Forestry Program. The elimination of SIP and the lack of FIP funding caused the division to change the guidelines concerning FIP. The minimum acres to enroll in the program were reduced to five acres, thus allowing the smaller woodland owner an opportunity to participate. This year also brought a new state/federally funded cost-share program. The Conservation Reserve Enhancement Program (CREP) has gotten approval to move forward and possibly will be in operation during the next fiscal year. The program will have some emphasis on riparian tree planting and bank stabilization in the Erie Basin of northern Ohio.

Five-year re-inspections for the Ohio Forest Tax Law were implemented for the first time since the law was revised five years ago. The service foresters visited each of the landowners and checked for compliance with their management

plan for the property. All went well with this first attempt at re-inspections of tax cases.

There has been a lot of activity in the eastern half of the state with House Bill 88 complaints and discussions of logger registration being implemented in Belmont County. All this is yet to be resolved and is getting the attention of many groups. District 8 foresters have been working closely with the Ohio Forestry Association (OFA) Logging Standard's Council and have put together a training package for loggers that are being re-certified by OFA. The training package emphasizes the silvicultural aspects of logging.

Numerous personnel changes and the reorganization of District 3's New Philadelphia's office have also had an impact on the Service Forestry Program throughout the year. Three service forestry vacancies (Athens-East, Findlay-East & Perrysville-West) were filled during the past fiscal year. The Mt. Vernon and Bucyrus (formerly Perrysville-West) projects were moved to be a part of District 2. This change helped to balance the number of projects located within each district.

Service Forestry accomplishments FY99

Results of the Forest Incentives Program (FIP) for fiscal year 1999:

Landowner Assists	3792
Stewardship Plans (#)	837
Stewardship Plans (Acres)	
38,466	
Referrals to Consultants	349
Timber Marked (BF)	
4,703,000	

Cost-share Dollars Available	\$117,961
Number of Trees Planted	633,500
Number of Acres of Trees Planted	905



Urban Forestry Assistance

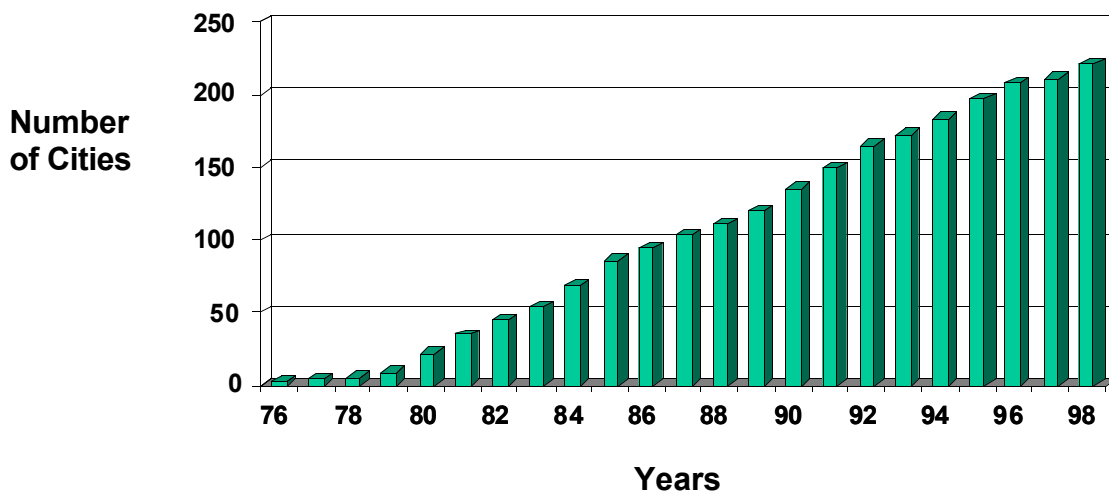


The Urban Forestry Program celebrated its twentieth year of service during 1999. To mark this occasion, a series of activities aimed at strengthening its service mix was initiated. Included in these were federal, local, and internal program reviews, which will be used to either validate or refocus future program efforts.

The six regional urban foresters remain the primary means of delivering urban forestry support to Ohio communities. By providing communities' organizational and technical aide, Ohio's Urban Forestry Program enables them to develop, support, or strengthen comprehensive tree care programs that address their local needs. Helping communities enhance the quality of life through the proper management of their urban forests continues to drive the actions of this program.

The National Arbor Day Foundation's Tree City USA program is one way to measure the state's urban forestry effectiveness. As a means to recognize cities and villages that competently manage their urban forest resources, the National Arbor Day Foundation initiated the Tree City USA program in 1976. For the 17th consecutive year, Ohio, with 219 designated communities, remains the national leader in this national award program

Tree City USA in Ohio 1976 - 1998



(Ohio's Urban Forestry Program started in 1979)

Using over 40,000 volunteer hours, these 219 cities and villages planted 39,119 trees (no seedlings included), pruned 110,373 street and park trees, and removed 22,663 dead, dying, and hazardous trees, for a total expenditure of \$27,213,813.

A new statewide urban forestry grant program was realized due to Governor Taft's Bicentennial Tree Planting Initiative and a partnership with the Ohio Environmental Protection Agency (OEPA). To help meet the Governor's target of planting 2 million additional trees by the year 2003, OEPA agreed to dedicate 20% of future air pollution fines to the Division of Forestry. These monies will be used to fund a community tree planting grant program, administered by the Urban Forestry Program.

The Urban Forestry Program remains committed to facilitating information via the Internet. The Program's web site is constantly monitored and updated for the benefit of clients and potential clients. The Urban Forestry Program's homepage can be accessed at <http://www.hcs.ohio-state.edu/ODNR/Urban/Urbanfor.htm>.

The above activities and accomplishments are enhanced with input volunteered by the **Urban Forestry Advisory Committee**. This cross-section of Ohio's green industry and user groups, advises on current programs and

policies, recommends new directions and opportunities, provides feedback on administrative initiatives, and advocates the program's mission.



Forest Health Program



The State Forest Monitoring Team re-measured nine of the 26 permanent State Forest Health Monitoring plots established in 1996. This was the third year of revisiting plots; so all-26 plots have now been re-measured once since their establishment. Healthy forest conditions continue on the plots. The 19 ozone-monitoring plots were surveyed again in August of 1999. Ozone symptoms were detected at very few plots this year.

The Division of Forestry convened a meeting among state and federal agencies to develop a plan of action in the event that an Asian longhorned beetle infestation is discovered in Ohio. Agency roles and responsibilities were determined and discussed.

An elm yellows survey was continued this year to help clarify results of last year's survey. About half of Ohio's counties harbor elm yellows infected trees.

A mycorrhizal association that occurs naturally at Zanesville State Nursery was tested at Fernwood State Forest. Red oak seedlings from Zanesville harboring this fungal association were planted along side seedlings inoculated with a common commercial mycorrhizae (P.t.) and non-mycorrhizal seedlings. The seedlings were planted on both alkaline and acidic soils at the forest. Droughty conditions have made it difficult to understand the results thus far.

Previously established *Entomophaga maimaiga* plots were monitored in partnership with the California University of Pennsylvania. Two additional plots were established at Mohican State Forest. Dry conditions made it difficult for the fungus to infect gypsy moth caterpillars this year.

White pine monitoring plots established in cooperation with the Muskingum Watershed Conservation District (MWCD) and The United States Forest Service (USFS) were re-measured this year. These plots, monitored since 1996, indicate normal levels of white pine mortality over the past 3 years. In 1994 and 1995, pocket mortality appeared following heavy pine bark adelgid infestations in some areas. Closer inspection showed that the dead trees actually stopped growing after drought conditions in 1991. Adelgid populations are again building, so next year we will focus efforts on 30 trees in an adelgid infested area. We hope to determine what role, if any, the adelgid plays in the decline of white pine in Ohio.

A focused funding grant project in partnership with Ohio Agricultural Research and Development Center (OARDC) was completed at Mohican-Memorial State Forest. The project measures the effect of liming on soil conditions and yellow poplar health. Results will be reported following data analysis.

The Street Tree Evaluation Project Report has been printed. Data collection for this project was completed in 1998 in cooperation with the Urban Forestry Program and the USFS.

The Division of Forestry is participating on a gypsy moth task force convened by the Cuyahoga Valley Communities Council in response to severe gypsy moth defoliation and the resulting public outcry concerning the problem this year.

Forest Health Conditions

Temperatures and precipitation levels were normal in April. Conditions were hotter and drier for the remainder of the growing season. As of September, Ohio's precipitation levels were 5-6 inches below normal. The threat of severe forest fires was very high.

An aerial survey of Ohio's unglaciated hill country was accomplished during the last week of June. The 5 million-acre survey revealed several damage locations. The cause of every damaged site could not be accurately determined, however, ground checks did confirm greater than average amounts of locust leaf miner damage to black locust trees and pine sawfly damage to shortleaf pine. Scarlet oak sawfly damage was not detected in southern Ohio this year. The outbreak detected in Lawrence, Gallia, Jackson, and Scioto Counties in 1997 and 1998 has apparently collapsed.

White oak trees west and south of Columbus were defoliated early in the spring by cankerworms and a slug sawfly (*Pristiphora*). White oak leaf “tatters” was also a problem in northwest Ohio. In many cases the cause of damage to white oak foliage was difficult to determine. Damage to white oaks was reported in

Logan, Union, Shelby, Darke, Champaign, Madison, Fayette, Ross, Clinton, Fulton, and Defiance Counties.

In 1998, chestnut oak trees showed symptoms of small, distorted leaves, with browning and premature leaf drop. Symptoms occurred on trees of all sizes, but only on chestnut oaks. This problem was not seen this year in previously affected areas (Fairfield, Hocking, Athens, Vinton, Ross, Pike, Scioto, Jackson, Gallia, and Lawrence Counties).

Anthracnose diseases (ash, maple, oak, dogwood, sycamore), Diplodia tip blight (Austrian and Scotch pine), and other fungal diseases were reduced in amount and severity compared to the previous 3 years due to hot, dry weather conditions.

Brood V of the periodical cicada emerged this year in the eastern half of Ohio. The normal flagging associated with cicada egg laying was seen in late summer.

Gypsy Moth

Ohio Department of Agriculture's (ODA) aerial survey, completed during July of 1998 indicated 1,260 acres of gypsy moth defoliated forestland. The majority of defoliated acres were in Cuyahoga, and Portage Counties. Surveys indicated the need for 1,118 acres of suppression treatments and a 40 acre eradication treatment (Licking County) during May and June of 1999. The gypsy moth quarantine area was expanded to include 35 Ohio counties in 1999. The new counties added were Williams, Fulton, Defiance, Henry, Wood, Sandusky, Erie, Ashland, Licking, Muskingum, and Noble. Male moth trap catches were higher than expected in southern Ohio, especially around Pike, and Scioto Trail State Forests. No infestations have been found in these areas as of September 1999. Gypsy moth caterpillars moderately defoliated 2 small areas at Mohican-Memorial State Forest.

Pine Shoot Beetle

The United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS) and the ODA monitor pine shoot beetle populations. No new counties were added to the quarantine area in 1999. The quarantine remains at 54 counties in Ohio.



Forest Products Utilization



The Forest Products Utilization program had an active year of training and assistance offered. One special note was the involvement with and assistance on the White Pine utilization and assessment projects in eastern Ohio. Due to increased interest in utilizing the available white pine in eastern Ohio, the program staff assisted the Ohio State University (OSU) on an assessment of the white pine resource in a 17 county area of eastern Ohio. In addition, assistance was offered planning a white pine marketing meeting and conducting a softwood-grading workshop for White pine. Considerable time was spent working on logging BMP training and assistance as part of the overall state effort to improve logging practices on private lands. In addition, assistance was offered in Northeast Ohio addressing special hydraulic soils needs in the Grand River watershed. These needs included special hydraulic soils logging techniques and training for loggers.



The following training programs were planned and executed.

<u>Course</u>	<u>Number Trained</u>	
Map reading	03	
Tree grading & Cruise Techniques	09	
Log bucking	13	
Log grading and scaling	20	
Sawmill Alignment	06	
Sawing for grade	17	
Edger and Trimsaw		33
Hardwood lumber grading		70
Yield Studies		05
Bandsaw	19	
Circular saw	08	
Lumber drying	05	
Biomass PUCO Grant Assistance		02
BMP Oversight Committee		110
Logger Business Management Training		50
White Pine Utilization Project	<u>69</u>	
Total	439	



Windbreak planting



The Northwest Ohio Windbreak Program enjoyed another successful year of planting in 1999. This marked the 23rd consecutive year of windbreak planting by this program. There were a total of 36 new windbreaks planted in addition to 8 replanting jobs. Just less than 150,000 row feet of new windbreaks and 17,874 trees were planted.

Since the program started in 1977, almost 631 row miles and 400,000 trees have been planted in the 15 counties of the Northwest Ohio Windbreak Program planting area.



REFORESTATION

Nursery Operations

Ohio's tree seedling sales increased slightly in FY 99. A total of just over 5 million seedlings were sold, generating \$1,119,105 in revenue. A significant

portion of the sales resulted from tree planting commitments with American Electric Power Company for their Climate Challenge Tree Planting Program, the Mead Corporation, and the ODNR Division of Reclamation.

Conifers continue to lead sales although there is an increasing interest in hardwoods. Sixty-one percent of the seedlings sold in FY 99 were conifers and 39% were hardwoods (primarily oaks, ash, maple, tulip poplar, and walnut).

Construction on the Zanesville Nursery capital improvement project began in FY 98 and was completed in FY 99 except for the water supply wells. The Zanesville capital improvement project included a new office building, a new cold storage unit, new equipment building, and a new irrigation system.

SALES BY COOPERATOR CATEGORY

Name	orders	seedlings
Individual	1,877	1,257,825
4H	14	9,300
Division of Forestry	13	21,175
Division of Natural Areas	2	4,700
Division of Parks	13	4,050
Division of Reclamation	1	315,225
Division of Wildlife	3	2,300
Industry	37	1,605,800
Mead	3	324,100
Mead Free Cooperators	98	578,750
Mead Vo-Ag	39	30,500
Non-Profit	67	22,750
Northwest Ohio	39	31,175
Over-The-Counter	121	64,700
Over Federal	5	19,250
Other Government	58	144,600
Other Organization	49	95,475
Out-Of-State	7	241,000
School/Institution	42	29,125
SWCD	51	253,975
Vo-Ag	3	2,600
Totals	2,542	5,058,375

1999 NURSERY STOCK DISTRIBUTION

SPECIES	MARIETTA	ZANESVILLE	TOTAL
ADLER, BLACK	18,900	300	19,200
ARBORVITAE	48,475		48,475
ARROWWOOD, SOUTHERN		350	350
ASH, WHITE		194,825	194,825

ASH, GREEN		654,150	654,150
BALDCYPRESS	80,825		80,825
BIRCH, RIVER		2,350	2,350
BLACKHAW		2,650	2,650
BOXELDER		775	755
BUCKEYE, OHIO		5,775	5,775
BUCKEYE, YELLOW		700	700
BUTTERNUT		2,400	2,400
CHERRY, BLACK		21,575	21,575
CHESTNUT, CHINESE		525	525
CHOKEBERRY, BLACK		1,975	1,975
COTTONWOOD, EASTERN	5,450		5,450
CRABAPPLE, AMERICAN		350	350
CRABAPPLE, MIXED		6,000	6,000
CRABAPPLE, SARGENT		975	975
CRANBERRYBUSH		1,275	1,275
DOGWOOD FLOWERING		37,900	37,900
DOGWOOD SILKY		30,425	30,425
FIR, BALSAM	17,850		17,850
HAWTHORN, WASHINGTON		5,125	5,125
HEMLOCK	20,375		20,375
INDIGOBUSH		3,275	3,275
LARCH, EASTERN	600		600
LOCUST, BRISTLY		4,025	4,025
LOCUST, BLACK		35,550	35,550
MAPLE, RED		1,475	1,475
MAPLE, SILVER		72,375	72,375
MAPLE, SUGAR		24,775	24,775
MAPLE, SUGAR HY		7,900	7,900
OAK, BLACK	15,900	16,025	31,925
OAK, BUR		34,925	34,925
OAK, BUR (PT)		3,675	3,675
OAK, CHERRYBARK		4,900	4,900
OAK, ENGLISH		3,250	3,250
OAK, CHINKAPIN PT	3,400		3,400
OAK, MIXED PT	9,900		9,900
OAK, PIN		53,625	53,625
OAK RED PT	32,000		32,000
OAK, RED	10,600	247,475	258,075
OAK, SAWTOOTH		5,275	5,275
OAK, SHUMMARD		34,825	34,825
OAK, SWAMP CHESTNUT		19,125	19,125
PERSIMMON		19,050	19,050
PINE, AUSTRIAN		560,975	560,975

SPECIES	MARIETTA	ZANESVILLE	Continued TOTAL
PINE, LOBLOLLY		160,700	160,700
PINE, PITCH	1,975		1,975
PINE, PITCH (PT)		28,100	28,100
PINE, PITLOLLY	72,475		72,475
PINE, RED	6,450		6,450

PINE, SCOTCH	6,000		6,000
PINE, SHORTLEAF	3,375		3,375
PINE, VIRGINIA		50,375	50,375
PINE, VIRGINIA (PT)	19,400		190,400
FREE SEEDLING, WP	578,750		578,750
PINE, WHITE (PT)	20,425		20,425
PINE, WHITE	1,081,800		1,081,800
PINE, WHITE (CERTIFIED)	23,100		23,100
PLUM, AMERICAN		8,650	8,650
POPULAR, YELLOW/TULIP	35,250	50,775	86,025
REDBUD		39,300	39,300
REDCEDAR, EASTERN PT		1,000	1,000
ROSE RUGOSA		2,875	2,875
SPRUCE, NORWAY		138,925	138,925
SWEETGUM		26,950	26,950
TUPELO, BLACK	16,650	100	16,750
WALNUT, BLACK		83,075	83,075
WILLIOW, BANKERS DWARF		6,325	6,325
WILLIOW, STREAMCO		5,000	5,000
TOTAL	3,280,550	1,777,825	5.058,375





SUPPORT SERVICES

Fiscal Management

Revenues

The Division of Forestry relies on three main sources of revenue for its operations: state General Revenue Funds, monies from the sale of tree seedlings and forest products; and federal grant assistance, coming primarily from the U.S. Department of Agriculture, Forest Service.

The General Revenue Fund (GRF) appropriation to the Division of Forestry for FY 99 was \$9,022,312. This accounted for 77% of the year's total revenue receipts.

Tree seedling sales, forest product sales (excluding the sale of standing timber), right-of-way and lease payments, and other miscellaneous State Forest Fund revenues amounted to \$1,407,626. State Forest Fund (Fund 509) revenues accounted for 12% of FY 99's total revenue.

Federal grant assistance slightly increased in FY 99 to \$1,149,243. Federal assistance comprised 10% of the division's revenue in F.Y.99.

Revenue received from the sale of standing timber is deposited in the state's General Revenue Fund in accordance with Section 1503.05 ORC. The division is responsible for the collection of this revenue, making the authorized local government payments (referred to as stumpage payments) and transferring the balance to the state GRF. During FY 99, \$1,439,631 was collected from the sale of standing timber. FY 99 local government stumpage and royalty payments, for standing timber sale revenue and mineral royalties collected in FY 98 (made annually based on the previous year's revenue), amounted to \$1,068,176.

Revenue sources by fund

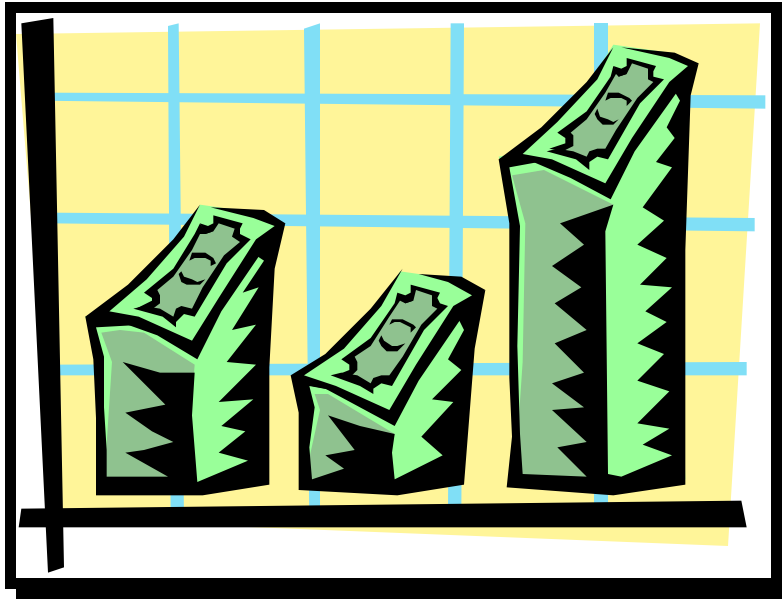
FY 99

Description	GRF	328	509	OTHER
GRF Appropriation	9,022,312			
Federal Grant Assistance		956,396		
Seedling Sales & Windbreak			1,119,105	
Donations			96,213	910
Forest Products*			29,099	
Forestry Fines			8,183	
Land Leases, Row, Etc.			96,486	
Performance Bonds				57,600
Rent, Residence				12,131
Royalties			4,977	
Salvage (equip.)			32,544	
Services Rendered		176,851	2,490	
Miscellaneous	6,556	15,996	18,529	42,713
Total Revenues	9,028,868	1,149,243	1,407,626	113,354
Grand Total - All Revenues	11,699,091			

*Excludes Standing Timber Sales Revenue



Expenditures



Division operation expenses totaled \$12,076,719 in FY 99 and an additional \$1,264,817 was paid out in various forms to local governments (stumpage and royalty payments, fire department reimbursements, and grants). Total FY 99 expenditures were \$13,341,536.

Seventy-six percent of the total division operation costs were for payroll and other personnel related expenses. Central support charges made up an additional 4.3% of the costs.

Programmatically, expenditures broke out as follows: State Forest Management (51%); Forestry Assistance (19%); Reforestation (14%); and Administration including I & E, (16%).

EXPENDITURES 99
DIVISION OF FORESTRY ANNUAL REPORT
7/29/1999
FY 99 EXPENDITURES BY PROGRAM

		PERSONNEL	MAINTENANCE & EQUIPMENT	PROGRAM TOTAL
		-----	-----	-----
STATE FORESTS MANAGEMENT				
Forest Operations		3137000	680588	3817588
Education & Information		103191	21235	124426
Fire Protection		505492	105478	610970
Timber Management		576995	40065	617060
Law Enforcement		598059	70811	668870
Recreation		258062	13446	271508
		-----	-----	-----
Subtotal		5178798	931623	6110421
REFORESTATION				
Nursery Operations		1091645	546354	1637999
Northwest Windbreaks		16604	702	17306
		-----	-----	-----
Subtotal		1108249	547056	1655305
FORESTRY ASSISTANCE				
Service Forestry		1573716	129212	1702928
Urban Forestry		366345	38156	404501
Forest Health		89090	8634	97724
Products Utilization		66851	11851	78702
		-----	-----	-----
Subtotal		2096003	187853	2283856
ADMINISTRATION				
Administration		702761	661372	1364133
Information & Education		127277	15630	142907
Central Support			520098	520098
		-----	-----	-----
Subtotal		830037	1197100	2027137
=====		=====	=====	=====
		=====	=====	=====
Programs Total		9213087	2863632	12076719
SUBSIDY & OTHER PAYMENTS				
Local Grant Awards				58500
Fire Dept. Payments & Grants				138141
Stumpage/Royalty Payments				1068176
		-----	-----	-----
Other Payments Total				1264817

			GRAND TOTAL	13,341,536

**PAYMENTS MADE TO SCHOOL DISTRICTS, COUNTIES & TOWNSHIPS
FOR TIMBER/FORREST PRODUCTS REVENUE IN FY 1999**

STATE FOREST(S)	COUNTY	TOWNSHIP	SCHOOL DIST	20%	20%	40%
				COUNTY FY99 STUMPAGE	TWP FY99 STUMPAGE	SCHOOL FY99 STUMPAGE
SHAWNEE (BRUSH CREEK)	ADAMS			22,099.86		
		FRANKLIN			20,796.70	
		GREEN			1,004.74	
		JEFFERSON			298.42	
			OHIO VALLEY			44,199.71
MOHICAN-MEMORIAL						
	ASHLAND			3,662.44		
		HANOVER			3,662.44	
			LOUDON-PERRYSVILLE			7,324.88
MAUMEE						
	FULTON			410.00		
		SWANCREEK			410.00	
			LIBERTY CTR			820.00
HOCKING						
	HOCKING			53.60		
		LAUREL			53.60	
			LOGAN HOCKING			107.20
RICHLAND FURNACE						
	JACKSON			20,527.27		
		WASHINGTON			20,527.27	
			WELLSTON CITY			41,054.54
DEAN						
	LAWRENCE			16,084.27		
		DECATUR			16,084.27	
			ROCK HILL			32,168.54
SHADE RIVER						
	MEIGS			740.22		
		OLIVE			740.22	
			EASTERN			1,480.44
BLUE ROCK						

	MUSKINGUM			3,771.63		
		BLUE ROCK			3,308.63	
		SALTCREEK			463.00	
			FRANKLIN LOCAL			7,543.26
PERRY						
	PERRY			200.00		
		CLAYTON			200.00	
			NEW LEXINGTON			400.00
PIKE						
	PIKE			66,574.56		
		BENTON			26,432.77	
		MIFFLIN			40,141.79	
			WESTERN LOCAL			133,149.12
MOHICAN-MEMORIAL						
	RICHLAND			32.00		
		MONROE			32.00	
			LUCAS			64.00
SCIOTO TRAIL-TAR HOLLOW						
	ROSS			24,929.40		
		FRANKLIN HARRISON			9,067.28	
					15,862.12	
			SCIOTO VALLEY			49,858.79
SHAWNEE						
	SCIOTO			106,778.82		
		BRUSH CREEK			25,389.54	
		NILE			47,354.02	
		RARDEN			22,849.58	
		RUSH			78.67	
		UNION			11,107.01	
			WASHINGTON-NILE			94,708.04
			NORTHWEST			118,849.60
ZALESKI						
	VINTON			86,042.85		
		BROWN			58,514.62	
		EAGLE			17,091.44	
		KNOX			1,883.94	
		MADISON			8,552.85	
			VINTON			172,085.70
MARIETTA NURSERY						
	WASHINGTON			89.85		

		MARIETTA			89.85	
			MARIETTA			179.70
				351,996.77	351,996.77	703,993.54
	GRAND TOTAL					1,407,987.08

Personnel Changes		
Employee	Position	Work Location

NEW HIRES

Paul Hayes	Forest Officer 2	New Philadelphia
John Jolliff	Staff Forester	Bucyrus
Joseph Puperi	Staff Forester	Findlay
Scott Swetye	Nat. Res. Worker	Maumee

PROMOTIONS

Donald Brooks	Asst. District For. Mgr.	Athens
Richard Cappell	Nat. Res. Admin. 1	Athens
Allen DePriest	Conservation Aide	Dean
Ronald Dillon	Nat. Res. Worker	Zanesville
Carl Hicks	BridgeWorker 2	Shawnee
Michael Holsinger	Equipment Operator 2	Shawnee
Christopher Kerr	Nat. Res. Worker	Hocking
Richard Lusk	Forest Manager 3	Zaleski
Julie Lyall	Nat. Res. Worker	Zanesville
Benjamin McDowell	Equipment Operator 4	Shawnee
Troy Newman	Equipment Operator 2	Shawnee
Danzil Walker	Staff Forester	Athens
William Williams	Equipment Operator 1	Shawnee

PROMOTION AND TRANSFER INTO DIVISION

Kimberly Dobbins	Public Info. Specialist	Columbus from Watercraft
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TRANSFERS

Brent Bendele	NRW	Maumee to Parks & Recreation
Myron DeBrosse	Records Mgt. Officer	Columbus to Watercraft
Linda Dotson	Office Assistant 2	Marietta to Oil & Gas
James Pfarr	Forest Officer 2	New Phila. from Parks & Recreation
Peggy McCort	Nat. Res. Worker	Zanesville to Parks & Recreation
Ken Meyer	Forest Officer 2	New Philadelphia from Parks & Recreation
Jenny Ridenour	Nat. Res. Worker	Marietta to Parks & Recreation

RETIREMENTS

Franklin Albaugh	Equipment Operator 2	Zaleski
Jerry Brooks	Equipment Operator 4	Zaleski
Charlie Foster	Forest Manager 2	Hocking
Lois Muncy	Office Assistant 2	Lebanon
Dave Schatz	Nat. Res. Admin. 1	Athens

DISABILITY RETIREMENTS

Howard Fodge	Bridge Worker 2	Shawnee
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INFORMATION AND EDUCATION



The Information & Education (I & E) section continues to support the division's programs and several department efforts with printed materials, public responses and media contacts. The bulk of the I&E programming for the Division of Forestry continues to be done by the field personnel who have less and less time to devote to this very needed part of our mission.

The I &E section supported and assisted the following forestry activities: Forestry's sport shows displays, the Forest Heritage Festival, the Hocking Fall Color Tour, Governor Taft's inaugural events, the Paul Bunyan Show, the Basic & Advanced "Coverts" Project, Smokey Bear appearances with local fire fighters (for the United States Forest Service (USFS), District 7's Northeastern Ohio Forestry Information Team (NEOFIT), Project Learning Tree workshops, the Utilization and Marketing conference, regional Tree City USA celebrations, the Ohio Tree Farm program, ODNR's Adopt-A-School program, Fall Color reports, the Ohio State Fair, the Ohio Envirothon and the Environmental Education Council of Ohio (EECO) conference.

Kimberly Dobbins was instrumental in producing name badges and new business cards for all employees along with her other I & E duties.

Cindy Gates was contracted to coordinate forestry's 1998 Ohio State Fair efforts and handled the task so well that she was also contracted to begin preparations for the 1999 fair.

Sue Wintering was contracted by Project Learning Tree-Ohio (PLT-Ohio) to continue on as the Program Director. The division provides her office space in the Columbus office. PLT-Ohio volunteers conducted 45 workshops for 900 education and resource participants.

The I & E Section is participating in the newly formed "Apparel Committee" that is producing approved forestry clothing for sale to our employees that the division has not been able to provide through The General Revenue Fund (GRF). The items, such as, jackets, sweatshirts, long sleeve sports shirts and Henley's, were highly requested articles and have been well received. During the calendar year of 1999, ODNR celebrated its 50th Anniversary. Forestry's I & E section participated on the guidance committee that made recommendations for divisions and offices participation during the year's events.

Renovations were completed to Smokey Bear's "back room" at the Ohio State Fair. It is now much more comfortable to look out the new one-way window and see the children as they approach Smokey.

The Friends of the Forest Awards and the Governor's Arbor Day Awards were not conducted this fiscal year so that a review can begin looking at how the division conducts these, and other award programs. The committee will be looking to see if there is a better way to recognize Ohioans who support forestry activities in this state.



AWARDS

OHIO FORESTRY ASSOCIATION (OFA) CONSERVATION AWARDS

William Schultz
March 1999 - Outstanding Individual in Government Service

SERVICE FORESTER OF THE YEAR

Harold Bower
Mount Vernon

INFORMATION AND EDUCATION ACCOMPLISHMENTS	
PROGRAM	TOTALS
FORESTRY (ADULT)	113
FORESTRY (YOUTH)	148
FIRE (ADULT)	14
FIRE (YOUTH)	97
TOURS	3
CAREER DAYS	21
FIELD DAYS	54
DISPLAYS/EXHIBITS	93
NEWSPAPER ARTICLES	111
RADIO PROGRAMS/SPOTS	32
TV SPOTS	14
FAIRS	- 0 -
PARADES	14
FIRE DEPT. ASSOC. MEETINGS	64
FIRE DEPARTMENT CONTACTS	1,103
COURT VISITATIONS	204
LAW ENFORCEMENT/VISITOR ASSISTS	9,353
SPECIAL I & E	84
PROGJECT LEARNING TREE (DAYS)	12
TOTAL	11,534



Division of Forestry
Table of Organization
 (As of 6/30/99)

