

## North Carolina Aquatic Weed Control Program 2022 WORK PLAN

COOPERATOR	PROJECT	ACRES	ACTIVITY	Total Project Cost	SDNCD&AW Fund	Cooperator Contribution	Receipt	NOTES
<b><i>Alternanthera philoxeroides</i> "Alligatorweed"</b>								
Camden County	Joyce Creek DD	1	herbicide applications	\$500	\$500	\$250	\$250	Not prior to June 15 (herring spawn)
	Hales Lake Ditch	2	herbicide applications	\$1,000	\$1,000	\$500	\$500	Not prior to June 15 (herring spawn)
	Pasquotank River		monitoring	\$300	\$300	\$150	\$150	Not prior to June 15 (herring spawn)
	Bell Farm Ditch	1.5	herbicide applications	\$1,000	\$1,000	\$500	\$500	Not prior to June 15 (herring spawn)
Chowan Soil & Water	Dillard's Millpond	2	herbicide applications	\$1,400	\$1,400	\$700	\$700	Not prior to June 15 (herring spawn)
Dare County	HWY 64 drainage canals	5.5	"	\$1,000	\$1,000	\$500	\$500	
Nags Head, Town of	Stormwater drainage	6	"	\$3,000	\$3,000	\$1,500	\$1,500	~6 miles of ditches
NC Division of Coastal Management	Buckridge Coastal Reserve (NW Fork & Alligator River)	6	"	\$1,800	\$1,800	\$900	\$900	Not prior to July 1 (grant parameter)
NC WRC - Land & Water Access	Northeast NC Waterfowl Habitat Improvement	293	"	\$21,200	\$3,100	\$18,100	-	WRC to purchase herbicide and do applications
Pasquotank County	Newland Drainage Canal	3	"	\$2,000	\$2,000	\$1,000	\$1,000	Not prior to June 15 (herring spawn)
	Pasquotank River	1	"	\$500	\$500	\$250	\$250	Not prior to June 15 (herring spawn)
	Pinelakes Canal System	0.5	"	\$500	\$500	\$250	\$250	Not prior to June 15 (herring spawn)
Perquimans County	Nicanor Drainage Area	1	"	\$3,000	\$3,000	\$1,500	\$1,500	DWR contract
Wilson, City of	Lake Wilson	1	"	\$800	\$800	\$400	\$400	
<b><i>Egeria densa</i></b>								
Fayetteville, City of	BMP-17 structure	1	herbicide applications	\$1,000	\$1,000	\$500	\$500	
<b><i>Eichhornia crassipes</i> "Water Hyacinth"</b>								
Jones County	Trent River	3	herbicide applications	\$4,000	\$4,000	\$2,000	\$2,000	
<b><i>Hydrilla verticillata</i></b>								
TBD	Cape Fear River		TBD	TBD	TBD	TBD	TBD	
see below	Eno River	22	herbicide applications project support	\$78,000 \$6,000	\$78,000 \$6,000	\$36,000 \$3,000	\$36,000 \$3,000	DWR contract
see below	Jordan Lake - Folkners Branch	1	grass carp barrier 90 grass carp	\$5,000 \$1,400	\$5,000 \$1,400	\$2,500 \$700	\$2,500 \$700	fabrication and installation DWR contract
see below	Lake Gaston	150	herbicide applications	\$88,000	\$44,000	\$44,000	-	
see below	Lake Norman	32,475	750 grass carp lake-wide survey	\$7,800 \$16,000	\$7,800 \$16,000	\$3,900 \$8,000	\$3,900 \$8,000	DWR contract
see below	Mountain Island Reservoir		survey	\$3,000	-	\$3,000	-	Duke Energy to coordinate survey
Brookfield Smoky Mountain Hydropower	Lake Santeetlah	~2,880	lake-wide survey	\$4,000	\$4,000	\$2,000	\$2,000	
Chowan Soil & Water	Harris Landing	0.5	herbicide applications	\$1,000	\$1,000	\$500	\$500	
	Old Ferry Rd.	1	herbicide applications	\$1,100	\$1,100	\$550	\$550	
	Chowan River sites		monitoring	\$500	\$500	\$250	\$250	
	Cape Colony		monitoring	\$500	\$500	\$250	\$250	Boat basin & canal
Cube Hydro	Badin Lake	~5,350	lake-wide survey	\$5,000	\$5,000	\$2,500	\$2,500	NCSU
	Palmerville		survey	\$0	\$0	\$0	\$0	included in Badin Survey
	Badin subimpoundments		survey	\$1,000	\$1,000	\$500	\$500	Ski Pond & Harper Hearn
	Falls Reservoir	204	survey & herbicide	\$1,500	\$1,500	\$750	\$750	
	Tuckertown Lake	~2,560	lake-wide survey	\$4,000	\$4,000	\$2,000	\$2,000	NCSU
Duke Energy	Lake Tillery	~5,700	lake-wide survey	\$6,000	\$6,000	\$3,000	\$3,000	
	Lake Tillery		100 grass carp	\$1,500	\$1,500	\$750	\$750	DWR contract
	Lake Tillery	3	herbicide applications	\$6,800	\$6,800	\$3,400	\$3,400	Swift Island, Lilly's Bridge, etc.
	Mountain Island Reservoir	6	herbicide applications	\$2,000	\$2,000	\$1,000	\$1,000	
	Lake James	17	80 grass carp	\$1,200	\$1,200	\$600	\$600	DWR contract
	Lake Wylie		170 grass carp	\$2,600	\$2,600	\$1,300	\$1,300	DWR contract
	Lake Wylie	9	herbicide	\$6,000	\$6,000	\$3,000	\$3,000	

	Shearon Harris Lake	~4,100	lake-wide survey	\$3,200	\$3,200	\$1,600	\$1,600	
Edenton, Town of	Filbert's Creek	2	herbicide	\$2,200	\$2,200	\$1,100	\$1,100	year 6
	Queen Anne's Creek		monitoring	\$1,000	\$1,000	\$500	\$500	
Fayetteville, City of	Mintz Pond	17	herbicide applications	\$8,400	\$8,400	\$4,200	\$4,200	
			lake-wide survey	\$800	\$800	\$400	\$400	
Four Oaks, Town of	Holt Lake	325	2,100 grass carp	\$25,000	\$25,000	\$12,500	\$12,500	DWR contract
		20	herbicide applications	\$30,000	\$30,000	\$15,000	\$15,000	DWR contract
		690	lake-wide survey	\$1,000	\$1,000	\$500	\$500	NCSU
Lewisville, Town of	Falmouth Lake		survey	\$400	\$400	\$200	\$200	
	Marblehead Lake		survey	\$400	\$400	\$200	\$200	
NC Parks & Recreation	Lake Waccamaw	950	herbicide applications	\$50,000	\$50,000	\$25,000	\$25,000	rapid response earmark (if needed); lake treated 2013-2019
		~9,000	monitoring	\$8,000	\$8,000	\$4,000	\$4,000	
			lake-wide survey	\$6,000	\$6,000	\$3,000	\$3,000	NCSU
	Morrow Mountain	0.5	herbicide applications	\$2,000	\$2,000	\$1,000	\$1,000	
	W.B. Umstead (Big Lake, Reedy Creek Lake, Sycamore Lake)		herbicide applications	\$8,000	\$8,000	\$4,000	\$4,000	
			lake-wide surveys	\$1,000	\$1,000	\$500	\$500	
NC State University	Lake Raleigh	15	herbicide applications	\$5,500	\$5,500	\$2,750	\$2,750	NCSU
	Yates Millpond	1	herbicide applications	\$1,000	\$1,000	\$500	\$500	NCSU
	Roanoke Rapids Lake		survey	\$4,000	\$2,000	\$2,000	-	
NC WRC - Division of Inland Fisheries	Lake Rim		herbicide	\$8,000	\$8,000	\$4,000	\$4,000	
			survey	\$800	\$800	\$400	\$400	
New Hanover County	Gordon Road Station	1	herbicide	\$1,500	\$1,500	\$750	\$750	
Orange County	Lake Orange	158	survey	\$800	\$800	\$400	\$400	
	Sediment structure #1	27	herbicide & survey	\$8,000	\$8,000	\$4,000	\$4,000	Compton's Pond
	Sediment Structure #2	6	herbicide & survey	\$1,400	\$1,400	\$700	\$700	
	Sediment Structure #3	8	survey	\$200	\$200	\$100	\$100	
	Eno River watershed		survey	\$10,000	\$10,000	\$5,000	\$5,000	
Orange Water & Sewer Authority	Cane Creek Reservoir	12	125 grass carp	\$1,800	\$1,800	\$900	\$900	DWR contract
	Cane Creek Reservoir		herbicide & survey	\$6,000	\$6,000	\$3,000	\$3,000	
Oxford, City of	Lake Devin	9	herbicide applications	\$4,600	\$4,600	\$2,300	\$2,300	
		103	220 grass carp	\$3,300	\$3,300	\$1,650	\$1,650	DWR contract
			survey	\$800	\$800	\$400	\$400	
Rocky Mount, City of	Tar River Reservoir	480	survey	\$1,000	\$1,000	\$500	\$500	
	City Lake Park	1	survey	\$1,000	\$1,000	\$500	\$500	
Reidsville, City of	Lake Hunt	183	survey	\$1,000	\$1,000	\$500	\$500	
	Lake Reidsville	700	survey & herbicide	\$3,200	\$3,200	\$1,600	\$1,600	
US Army Corps of Engineers	Jordan tailrace	1	herbicide applications	\$1,500	\$1,500	\$750	\$750	
White Lake, Town of	White Lake	~1,200	research	\$6,000	\$3,000	\$3,000	\$3,000	NCSU
		0.75	lake-wide survey	\$4,800	\$4,800	\$2,400	\$2,400	NCSU
Wilson, City of	Buckhorn Lake	~2,424	herbicide applications	\$600	\$600	\$300	\$300	
			lake-wide survey	\$2,600	\$2,600	\$1,300	\$1,300	

**Ludwigia grandiflora "Creeping Water Primrose"**

Piedmont Triad Regional Water Authority	Randleman Reservoir	2	herbicide applications	\$4,000	\$4,000	\$2,000	\$2,000	DWR contract
NC Parks & Recreation	Crowders Mountain	<0.5	herbicide applications	\$2,000	\$2,000	\$1,000	\$1,000	DWR contract
Ramseur, Town of	Ramseur Lake		TBD	\$500	\$500	\$250	\$250	
Wilson, City of	Toisnot Lake	0.5	herbicide applications	\$500	\$500	\$250	\$250	

**Myriophyllum aquaticum "Parrotfeather"**

Duke Energy	Lake Hickory	1.5	herbicide applications	\$1,000	\$1,000	\$500	\$500	DWR contract
	Lookout Shoals	13	herbicide applications	\$2,500	\$2,500	\$1,250	\$1,250	
	Mt. Island Lake	1	herbicide applications	\$2,000	\$2,000	\$1,000	\$1,000	DWR contract
NC Parks & Recreation	Merchants Milpond		site assessment	\$4,000	\$4,000	\$2,000	\$2,000	
			herbicide treatment	\$1,000	\$1,000	\$500	\$500	
	Occoneechee Mountain	3.5	monitoring & herbicide	\$1,400	\$1,400	\$700	\$700	

**Myriophyllum spicatum "Eurasian milfoil"**

Kill Devil Hills, Town of	Kitty Hawk Bay		herbicide / survey	\$10,000	\$10,000	\$5,000	\$5,000	Coordinate with DMF and APNEP
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**Phragmites australis**

Camden County	One Mill Park	1	herbicide applications	\$800	\$800	\$400	\$400	
Nags Head, Town of	Glidden St. outfall ditch	0.25	herbicide applications	\$600	\$600	\$300	\$300	
	Finch St. outfall ditch	0.5	herbicide applications	\$600	\$600	\$300	\$300	
National Park Service	Cape Hatteras Nat'l Seashore		herbicide applications	\$5,000	\$5,000	\$2,500	\$2,500	
NC Parks & Recreation	Carolina Beach S.P.	10	herbicide applications	\$12,500	\$12,500	\$6,250	\$6,250	\$10K for DWR Contract
	Dismal Swamp S.P.		site assessment / survey	\$10,000	\$10,000	\$5,000	\$5,000	DWR contract
	Fort Fisher S.P.	2	herbicide applications	\$4,000	\$4,000	\$2,000	\$2,000	
	Goose Creek S.P.		herbicide purchase	\$2,000	\$2,000	\$1,000	\$1,000	
	Hammocks Beach S.P.		herbicide applications	\$2,500	\$2,500	\$1,250	\$1,250	
	Jockeys Ridge S.P.	<0.5	herbicide purchase	\$1,000	\$1,000	\$500	\$500	
	Pettigrew S.P.		herbicide applications	\$13,000	\$13,000	\$6,500	\$6,500	DWR contract
	Run Hill		herbicide applications	\$4,000	\$4,000	\$2,000	\$2,000	DWR contract

**Salvinia molesta**

Columbus County	Gapway swamp		herbicide applications	\$140,000	\$140,000	\$70,000	\$70,000	DWR contract
			misc. fieldwork	\$10,000	\$10,000	\$10,000	\$10,000	

**Research**

NCSU - Evaluation of sUAS for noxious aquatic weed detection and monitoring (2022 adjustment adds \$10,000 to bring total project cost to \$40,000)	\$10,000	\$5,000	\$5,000	-	2021 Work Plan included \$30K (total project cost); no action taken
NCSU - Evaluating the efficacy of Florpyrauxifen-benzyl on North Carolina Noxious Weeds					2021 Work Plan included \$60K (2-year project, began in 2021)
NC WRC - Lake Norman Grass Carp Mortality Study (bowfishing)					Rebraded project - 2021 Work Plan included \$45K (total project cost) for radio tagging study at Lk Norman

**Public Awareness & Vector Management**

TBD	Printed material, workshops, etc.	\$3,000	\$1,500	\$1,500	-	
TBD	Boat Wash Station	TBD	TBD	TBD	-	2021 Work Plan included \$30K (total project cost); no action taken
NCSU	River Surveys					2021 Work Plan included \$40K (total project cost); no action taken

<b>Total</b>		<b>\$767,600</b>	<b>\$691,000</b>	<b>\$394,800</b>	<b>\$321,200</b>	
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**MULTI-COOPERATOR PROJECTS**

Project	Cooperators	Notes
Eno River	NC Parks, Orange Co., Durham Co., City of Durham, Town of Hillsborough	
Jordan Lake - Folkners Branch	NC WRC, USACE	
Lake Gaston	Halifax Co., Northampton Co., Warren Co., Dominion Power	Contribution will be based on reimbursement request from cooperator
Lake Norman	Lake Norman Marine Commission, Charlotte Water, Duke Energy	
Lake Norman GC Survivorship Study	NC WRC, Lake Norman Marine Commission, Charlotte Water, Duke Energy	
Mountain Island Reservoir	Duke Energy, Charlotte Water, Charlotte-Mecklenburg Stormwater	