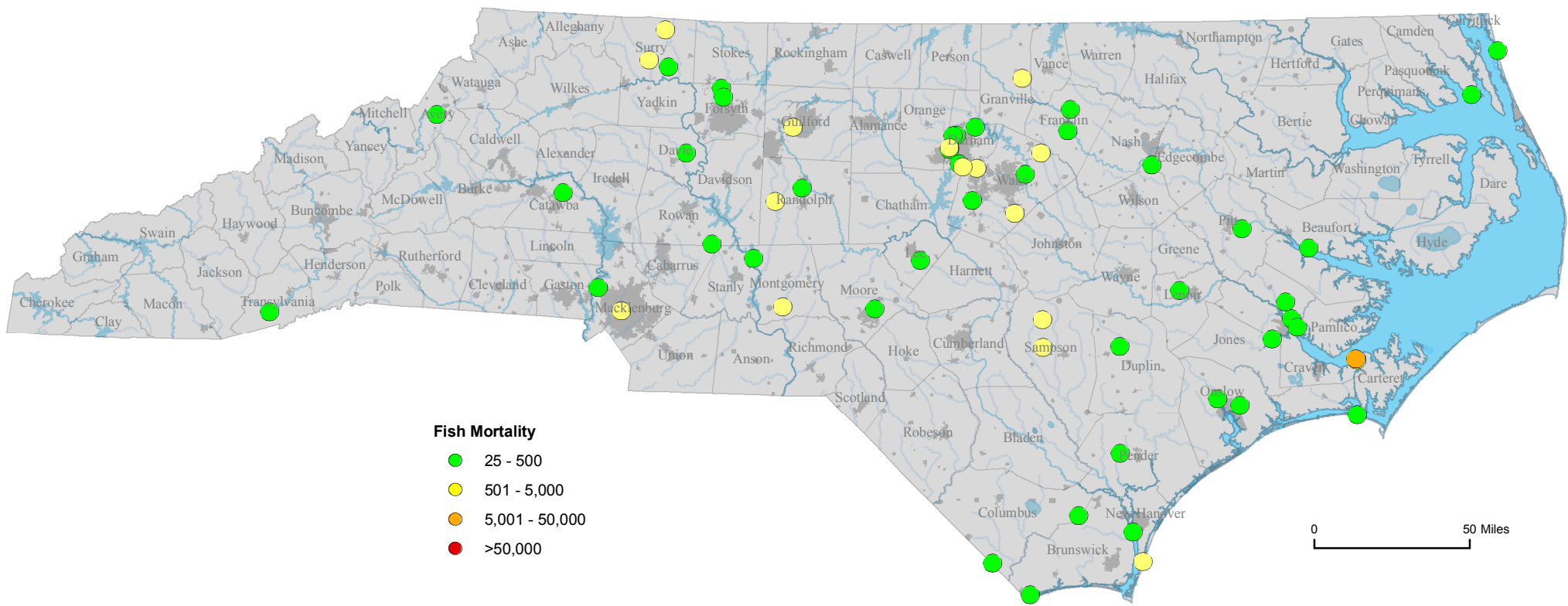


Fish Kill Events Reported to the North Carolina Division of Water Quality - 1997



1997 Fish Kill Events (by County)

Total 1997 Fish Kills: 58

Total 1997 Fish Mortality: 91988

Date	Kill Number	Waterbody	Location	Mortality	Comments
Avery					
7/15/1997	AS97001	North Toe River	near Newland	100	kill caused by backwash from Town of Newland municipal pool, contact Mike Parker, DWQ Asheville
Total Kills for County: 1 Total Mortality for County: 100					
Beaufort					
6/24/1997	WA97003	Pamlico River	Goose Creek State Park	100	dead fish first spotted on 6/22 50 yards from Goose Creek ST Park boat ramp; additional stressed fish noted on 6/24 in Jacks Creek near Sidney
Total Kills for County: 1 Total Mortality for County: 100					
Brunswick					
7/19/1997	WL97005	Twin Lakes	near Sunset Beach	75	hot dry conditions with low water levels observed days prior; extensive spikerush growth observed in East Lake; Cause unknown
8/6/1997	WL97007	Watts Farm Pond	near Shallotte	1000	investigators suspected chemical or pesticide spill; owner claimed mosquito truck in area on 8/1; algae bloom not suspected; algal bloom identified by ESB
Total Kills for County: 2 Total Mortality for County: 1075					
Camden					
9/26/1997	WA97010	Unnamed Canal	Camden Point Shores	150	hundreds of dead fish and crab walk reported on 9/25; white slimy substance noticed on surface (plastic?); low DO observed ATI; canal appeared to recover on 9/26; ESB performed Pfiesteria cell count = 0 cells/ml
Total Kills for County: 1 Total Mortality for County: 150					
Carteret					
7/22/1997	WL97006	Adams Creek	near Merrimon	2000	50% of fish had flared and bloody gills; kill occurred overnight; trawlers were sighted in the area ATI; algal bloom identified by ESB; presumptive pfiesteria cells counted by ESB = 111 cells/ml; cause unknown
9/17/1997	WL97011	Atlantic Ocean	near Fort Macon	150	fins red and eroded on many fish; dead fish being consumed by birds ATI; cause unknown.
Total Kills for County: 2 Total Mortality for County: 2150					
Catawba					
4/22/1997	MO97001	Lyle Creek	near Conover	170	kill caused by 70-80 gallon spill of 15% sodium hypochlorite from Conover Northeast WWTP into creek; discharge was at outfall 001

Date	Kill Number	Waterbody	Location	Mortality	Comments
					Total Kills for County: 1 Total Mortality for County: 170
Columbus					
5/15/1997	WL97002	UT to Big Creek	near Pireway (Marlow Brch)		kill caused by runoff of hog waste from spray fields
7/15/1997	WL97004	UT to Livingston Creek	near Delco	60	Low DO observed ATI; no flow and extreme turbidity observed in stream; aquatic insects and turtles appeared normal
					Total Kills for County: 2 Total Mortality for County: 60
Craven					
7/15/1997	WA97004	Mills Creek	near Bridgeton	60	pumpkinseed sent to ESB for pathology; sheen observed on water in area of kill; construction reported upstream; most affected fish were sunfish species; turtles in area appeared fine ATI; bloom identified by ESB
7/22/1997	WA97005	Neuse River	near Carolina Pines	50000	no sores observed on fish; fish had flared gills; kill occurred overnight; 90% of dead fish were croaker; low DO levels suspected as cause, Pfiestria-like cells identified by ESB = 320 cells/ml; NCSU reported positive identification of pfiestria-like organisms using scanning electron microscopy; bioassy results using sample water were also positive.
8/9/1997	WA97006	Neuse River	Duck Creek	80	some fish had bulging eyes and had been dead for some time ATI; fish seen dead near Duck Creek Marina; DO levels were normal ATI; algal bloom identified by ESB
8/24/1997	WA97007	Trent River	near River Bend	300	algae bloom observed during investigation; algae samples collected; elevated DO observed at surface; turtles in area looked fine
9/8/1997	WA97008	Little Swift Creek	near Askin	350	low DO observed ATI; investigator suspected some fish may have been dumped
					Total Kills for County: 5 Total Mortality for County: 50790
currituck					
9/18/1997	WA97009	Atlantic Ocean	near Corolla Light		dead clams observed along 2 mile stretch of beach near Corolla Light near water line; most clams had a bleached appearance and most meat was out of the shells; cause unknown; tissue archived at ESB
					Total Kills for County: 1 Total Mortality for County:
Davie					
4/4/1997	WS97001	Buffalo Creek	at SR 1600 near Cornatzer	100	Elevated DO measured at surface, 0.05 free chlorine measured 20 ft downstream from Davie County culvert project; cause unknown
					Total Kills for County: 1 Total Mortality for County: 100

Date	Kill Number	Waterbody	Location	Mortality	Comments
Duplin					
6/19/1997	WL97001	Nahunga Creek	East of Warsaw	100	low DO noted ATI; creek 1-1.5 feet below normal due to recent dry conditions; possible upstream beaver dam contributing to problem
Total Kills for County: 1 Total Mortality for County: 100					
Durham					
6/4/1997	RA97001	Five Oaks Lake	near Chapel Hill	300	heavy rains noted on 6/2 in area; low DO (3.2 mg/L) noted at time of investigation; 100 dead fish and 200 stressed observed
7/14/1997	RA97004	Elerbee Creek	Hillandale Golf Course	120	kill caused by sewerage spill from storm drain at nearby Coca Cola plant; spill originated from sump overflow into floor drain at the plant; sewerage caused a drop in pH and DO in creek
7/27/1997	RA97006	Burden Creek/ Northeast Creek		1375	kill caused by sewage spill and mechanical failure at the Triangle WWTP; 1.6 million gallons of sewage were discharged to Burden/ Northeast Creeks; spill resulted in high fecal coliform bacteria and low DO
7/29/1997	RA97007	UT to Elerbee Creek		100	kill caused by 30,000 gal. sewage spill from Glenn Road Pump Station in Durham Co; the discharge occurred from 7/25 to 7/28; most fish observed ATI were small and in a state of decay
8/11/1997	RA97008	Walden's Pond		30	fish dead for some time ATI; low DO observed; large amounts of algae/chara observed around perimeter of pond
8/14/1997	RA97011	UT to Northeast Creek	near Durham	200	kill caused by sewage overflow of 20,000 gallons from Durham/Triangle sewerline; low DO observed; all fish observed dead; various sunfish species affected
8/26/1997	RA97014	Private Pond	Mary Dell Estates, Durham	4900	low DO observed ATI, duck and goose waste abundant around pond, several lawn services noticed in area ATI
Total Kills for County: 7 Total Mortality for County: 7025					
Forsythe					
5/28/1997	WS97003	Private Lake	UT to Grassy Creek at Rural Hall	50	elevated DO noted ATI; algae results show no evidence of harmful bloom; heavy filamentous mats noted ATI
7/16/1997	WS97006	UT to Grassy Creek	near Stanleyville	200	algal report filled out; oil sheen seen on water ATI; water noted as brown and turbid; hot dry weather prior to kill; algal bloom identified by ESB
Total Kills for County: 2 Total Mortality for County: 250					
Franklin					
6/6/1997	RA97002	Private Pond	near Louisburg	130	suspected DO slump in pond from recent rains; low DO noted ATI; cattle loafing and feeding area adjacent to pond contributed organic input

Date	Kill Number	Waterbody	Location	Mortality	Comments
8/26/1997	RA97010	Private Pond	off Moulton Road near Louisburg	380	algal bloom occurring ATI, elevated DO observed at pond surface
Total Kills for County: 2 Total Mortality for County: 510					
Granville					
8/19/1997	RA97013	Coon Creek		3500	kill caused by spill of 1.2 million gallons of sewage from an Oxford pumping station; low flows in stream resulted in little dilution of waste; low DO and high coliform counts observed up to 3 mi. downstream; distressed fish first observed on 8/18
Total Kills for County: 1 Total Mortality for County: 3500					
Guilford					
7/27/1997	WS97007	UT to South Buffalo Creek	Greensboro	3500	kill caused by spill of 18000 gallons of HCl from the Worth Chemical Company in Greensboro; fish killed in stream and downstream lake; NCWRC performed assessment
Total Kills for County: 1 Total Mortality for County: 3500					
Lee					
9/23/1997	RA97015	Little Buffalo Creek	Sanford	25	kill was caused by a 50,000 gal sewage spill into unnamed trib of Little Buffalo Creek from the Sanford WWTP; low DO was observed ATI
Total Kills for County: 1 Total Mortality for County: 25					
Lenoir					
6/18/1997	WA97002	Pond on UT to Falling Creek	near Kinston	200	dead fish had flared gills and gaped mouths; low DO observed ATI, runoff from geese flock and heavy rains is suspected
Total Kills for County: 1 Total Mortality for County: 200					
Mecklinburg					
4/7/1997	MO97005	Long Creek	NW of Charlotte at Hwy 27	260	kill occurred around tanker truck accident off Hwy 27; gasoline reported spilled into creek; most dead fish were sunfish species; fish were dead and dying at time of investigation; NCWRC performed investigation
5/4/1997	MO97002	Freedom Park Lake	Charlotte	800	MCDEP observed low DO levels in the lake previous to kill; leaking sewer line located nearby; lake contains substantial amounts of organic matter; contact Alan Giles 704-336-5500 for water chemistry results
Total Kills for County: 2 Total Mortality for County: 1060					
Montgomery					
5/27/1997	FA97002	Disons Creek		1000	kill caused by hog waste spill from Purvis Hog Farm off SR1543 east of Mt. Gilead; fish were all dead ATI and ranged in size from 1-12 inches
7/17/1997	MO97004	Badin Lake	near Palmerville	500	kill occurred following period of hot dry weather; severe temperature and DO stratification noted in lake ATI; pattern follows those observed in other lakes in previous years

Date	Kill Number	Waterbody	Location	Mortality	Comments
Total Kills for County: 2 Total Mortality for County: 1500					
Moore					
4/4/1997	FA97001	Reservoir Park Lake	near Southern Pines	50	Some constrution noted in area; recent sustained high winds(possible lake turnover); fish examined in ESB lab was too decomposed to diagnose; golf courses in area; cause unknown
Total Kills for County: 1 Total Mortality for County: 50					
Nash					
7/1/1997	RA97012	UT to Cokey Swamp	near Sharpsburg	300	kill caused by spill of at least 23,000 gallons sewage from Sharpsburg WWTP; low DO observed; some fish pcked up and discarded prior to RRO investigation
Total Kills for County: 1 Total Mortality for County: 300					
New Hanover					
8/28/1997	WL97010	Cape Fear River	Baker's Marina	300	fish dying in marina area, fish observed jumping around 5:00 pm and dying in groups for 1 week previous to investigation; low DO observed ATI; fish sample collected but too decomposed for examination; pfiesteria cell count performed by ESB = 0 cells/ml
9/4/1997	WL97012	Carolina Beach Lake		1500	algal bloom identified by ESB; water described as brown/ tan in appearance, elevated DO observed; Chlor-A = 51; most fish affected were mullet (90%).
Total Kills for County: 2 Total Mortality for County: 1800					
Onslow					
7/4/1997	WL97003	Northeast/ Little Northeast Creeks	near Jacksonville	300	low DO measured at fish kill site; dead fish were found along bank; fish had flared gills but no sores
8/21/1997	WL97009	Upper New River	near Tar Landing	100	low DO observed ATI; no lesions observed on fish; recent heavy rains following drought period; fish were dead and decayed
Total Kills for County: 2 Total Mortality for County: 400					
Pender					
8/20/1997	WL97008	Morse Branch/ Long Creek	near Burgaw	50	low DO observed in fish kill area; little flow in stream due to dry conditions; sheen noticed on water but not oil; logging operation in area
Total Kills for County: 1 Total Mortality for County: 50					
Pitt					
6/16/1997	WA97001	Lake Glenwood	near Greenville	200	phyto bloom in progress ATI; water observed as pea soup green; elevated DO and pH observed;
Total Kills for County: 1 Total Mortality for County: 200					

Date	Kill Number	Waterbody	Location	Mortality	Comments
Randolph					
5/19/1997	WS97002	Lake Reece	near Asheboro	5000	fungal growth noted on gills of fish; recent heavy rains and flooding noted in area
12/17/1997	WS97009	UT to Back Creek	near Randleman	500	failure of equipment caused the spill of H2SO4 from the Goodyear Asheboro Wire Plant; the acid ran down the storm drain and into two ponds; release probably occurred for 2-3 weeks; discharge was calculated at 200-300 lbs. Of 11% H2SO4
Total Kills for County: 2 Total Mortality for County: 5500					
Rowan					
5/9/1997	MO97003	Community Pond	near Gold Hill	100	kill caused by spill of Chloropyrofos from spraying nearby house; chloropyrofos detected in water samples collected ATI
Total Kills for County: 1 Total Mortality for County: 100					
Sampson					
7/10/1997	FA97003	Bearskin Swamp	near Bearskin/Salemburg	2000	hot dry weather prior to kill; low DO noted in some reaches ATI; some fish seen gasping and lethargic
8/21/1997	FA97004	Little Coharie Creek	at Sinclair Lake	3000	fish dead for 2-3 days ATI; DO values were near normal; cause unknown
Total Kills for County: 2 Total Mortality for County: 5000					
Surry					
6/17/1997	WS97004	Private Pond	on UT to Fisher River near Copeland	200	surrounding property drained tobacco fields; elevated DO noted at surface ATI; some fish dying ATI; algal bloom identified by ESB
6/28/1997	WS97005	Cody Creek		700	recent heavy rains reported before kill; cause unknown; kill investigated on 6/28 and 6/30
10/7/1997	WS97008	Lovills Creek	Mount Airy	3099	kill caused by sewage leakage from junction in Town of Mount Airy sewage lines, DO levels reported as acceptable during investigation; investigators suspected other agent in sewage as a cause for the kill
Total Kills for County: 3 Total Mortality for County: 3999					
Transylvania					
8/21/1997	AS97002	West Fork French Broad River	near Rosman	50	kill occurred 2-3 days before investigation; landfill and electroplating facility discharge in area but no effects observed from either source during investigation; cause unknown
Total Kills for County: 1 Total Mortality for County: 50					

Date	Kill Number	Waterbody	Location	Mortality	Comments
Wake					
6/12/1997	RA97003	Perry Pond	near Apex	134	kill several days old ATI; suspect organic input from recent rains
7/3/1997	RA97005	Page Lake	near RDU airport	1000	kill caused by draw down of Page and Brier reservoirs for construction of I-540; most dead fish observed in upper section of PAGE Lake and Stirrup Iron Creek; lake is county owned flood control structure with no public access
8/13/1997	RA97009	Swift Creek/Mahlers Creek		1000	kill caused by sewage spill from line to the Garner WWTP; the spill was estimated at 500000 to 1 million gallons; sewage spilled into Mahlers Creek initially, NCWRC biologists performed assessment
11/9/1997	RA97016	East Beaverdam Creek		40	kill caused by sewage spill from broken manhole, 500,000 gallons of sewage were released

Total Kills for County: 4 Total Mortality for County: 2174