



***Our
Environment***

***B**roward County's environment is rich in natural resources: the Everglades, miles of beaches, an abundance of fish and wildlife, as well as beautiful places to grow up, retire to and visit.*

***W**e have come a long way toward understanding the delicate balance between living and the environment in which we live. Industry, development and a growing population are placing increasing demands on our air, water, land and wildlife. To manage these resources wisely, we must have full knowledge of the immediate and long-term impact of our actions. At the same time, we must examine how our lifestyles and behaviors affect the natural environment, so that the resources we enjoy and depend on today will be here for future generations.*

CRITICAL BENCHMARKS



6.1 AIR QUALITY



6.2 GROUNDWATER QUALITY



6.3 SURFACE WATER QUALITY



6.4 WATER USE



6.5 WILDLIFE HABITAT



6.6 WETLANDS



6.8 COASTLINE



Protecting our air and water

6.1	AIR QUALITY	TRENDS				GOALS	
		FL	1986	1990	1996	2000	2010
6.1.1	<i>Days of good air quality:</i> Percentage of days when the outdoor air quality was rated good	not available	80%	82%	86%	90%	90%
6.1.2	<i>Radon in buildings</i>						
	a) Percentage of public buildings tested that had elevated levels of radon, including public and private schools and facilities operated, licensed, owned or regulated by the state.						
	b) Percentage of housing units tested that had elevated levels of radon.						
6.2	GROUNDWATER QUALITY	FL1994	1985	1990	1994	2000	2010
6.2.1	<i>Quality of groundwater:</i> Percentage of monitored ground water wells that were contaminated by pollutants	4.2%	not available	not available	not available		
6.2.2	<i>Deterioration in groundwater quality:</i> Percentage of groundwater monitoring wells that showed a deterioration in quality						



Protecting our air and water continued

		TRENDS				GOALS	
6.2	GROUNDWATER QUALITY CONTINUED	FL1994	1985	1990	1994	2000	2010
	6.2.3 Sources of pollutants: Percentage of groundwater monitoring wells that were contaminated by the following pollutants:						
	a) Pesticides	0%	not available	not available	not available		
	b) Nutrients from fertilizers and other sources	1.3%	not available	not available	not available		
	c) Trace metals, such as mercury	1.3%	not available	not available	not available		
	d) Volatile organic compounds, such as solvents	2.0%	not available	not available	not available		
6.3	SURFACE WATER QUALITY	FL	1985	1990	1995	2000	2010
	6.3.1 Quality of surface water: Percentage of lakes and estuaries where the water quality is rated good						
	a) Broward County	to be included in future edition					
	1) Lakes						
	2) Estuaries						
	b) Florida						
	1) Lakes		57%	68%	66%		
	2) Estuaries		47%	43%	43%		
	6.3.2 Deterioration in surface water quality: Percentage of Broward County's surface water bodies where the water quality has deteriorated						
	a) Lakes	to be included in future edition					
	b) Estuaries	to be included in future edition					
	c) TOTAL (all surface water bodies)	to be included in future edition					



Protecting our air and water *continued*

6.3

SURFACE WATER QUALITY CONTINUED

	TRENDS				GOALS	
	FL1993	1985	1990	1993	2000	2010
6.3.3 Sources of pollution: Of the estuaries rated fair or poor, the percentage of estuarine miles that showed evidence of pollution from one or more of the following sources						
a) agriculture	46%	not available	not available	not available		
b) new development	18%	not available	not available	not available		
c) urban runoff / storm sewers	17%	not available	not available	not available		
d) land disposal and septic tanks	16%	not available	not available	not available		
e) canals, reservoirs and roadside ditches	14%	not available	not available	not available		
f) mining	10%	not available	not available	not available		
g) forestry	10%	not available	not available	not available		
h) wastewater treatment facilities	5%	not available	not available	not available		
i) industrial facilities	5%	not available	not available	not available		
6.3.4 Surface water usable for fishing and swimming: Percentage of surface waters designated for fishing and swimming that meet or exceed water quality standards						
a) Broward County	to be included in future edition					
1) Lakes						
2) Estuaries						
b) Florida						
1) Lakes		75%	72%	91%		
2) Estuaries		92%	93%	97%		



Protecting our air and water *continued*

6.4	WATER USE	TRENDS				GOALS	
		FL1995	1975	1985	1995	2000	2010
6.4.1 <i>Water demand by source:</i> Amount of fresh water withdrawn from the following sources in millions of gallons per day a) Groundwater (aquifers) b) Surface water		not available	169	230	268		
		not available	61	5.1	20		
6.4.2 <i>Water consumption:</i> Millions of gallons of fresh water used per day by a) households, businesses and industries served by public water suppliers and private wells b) mining, processing, manufacturing and institutional users c) agricultural users d) recreational users e) TOTAL - all users		not available	148	191	224		
		not available	3.5	1.4	0.3		
		not available	not comparable	not comparable	10		
		not available	not available	not available	52		
		not available	229	235	287		
6.4.3 <i>Per capita water consumption:</i> Gallons of water used per day per resident served by public suppliers such as city and county water departments		169	191	170	165		



Protecting our air and water continued

6.4

WATER USE CONTINUED

6.4.4 Reuse of reclaimed water

a) Reuse capacity: Total reuse capacity (in millions of gallons per day) of all domestic wastewater treatment plants which provide reclaimed water for reuse

b) Reclaimed water use: Percentage of domestic wastewater flowing to treatment plants that is reclaimed and reused for beneficial purposes

	TRENDS				GOALS	
	FL1995	1985	1990	1997	2000	2010
a) Reuse capacity: Total reuse capacity (in millions of gallons per day) of all domestic wastewater treatment plants which provide reclaimed water for reuse	696	not available	not available	18.6		
b) Reclaimed water use: Percentage of domestic wastewater flowing to treatment plants that is reclaimed and reused for beneficial purposes	23%	not available	not available	4.1%		



Preserving our land and wildlife

6.5

WILDLIFE HABITAT

- 6.5.1 Natural areas:** Public and private areas of conservation value
- a) Acres of natural areas (including the Everglades and other identified areas)
 - b) Acres of natural areas as a percentage of total land and water area

	TRENDS				GOALS	
	FL	1987	1990	1997	2000	2010
not available	527,513	not available	not available			
not available	62%	not available	not available			
6.5.2 Rare and imperiled species: Number of native plant and animal species that are rare and imperiled						
a) plants	not available	not available	not available	26		
b) animals	not available	not available	not available	15		

6.6

WETLANDS

- 6.6.1 Total wetlands acreage:** Acres of land classified as wetlands
- 6.6.2 Wetlands as a percentage of total land:** Acres of wetlands as a percentage of total land mass
- 6.6.3 Impact of state permitting on wetlands:** Since 1984, cumulative gain (+) or loss (-) in wetlands acreage due to permitting

	FL	1987	1990	1993	2000	2010
not available	not available	not available	not available	not available		
not available	not available	not available	not available	not available		
not available	not available	not available	not available	not available		



Preserving our land and wildlife *continued*

		TRENDS				GOALS	
6.7	INVASION OF EXOTIC SPECIES	FL	1987	1990	1997	2000	2010
6.7.1	Coverage: Percentage of natural areas covered by exotic species a) County-owned natural areas b) Everglades	not available not available	not available not available	not available not available	40% not available		
6.7.2	Percentage of covered natural areas that have been cleared of exotic species a) County-owned natural areas b) Everglades	not available not available	not available not available	not available not available	10% not available		
6.8	COASTLINE	FL	1992	1993	1997	2000	2010
6.8.1	Sandy beach a) Miles of sandy beach b) Percentage of total coastline that is sandy beach 1) Broward County 2) Florida	not available not available	24 66%	not available 66%	not available not available		
6.8.2	Critically eroding beaches a) Percentage of sandy beaches that were critically eroding b) Percentage of critically eroding beaches that have been renourished and maintained	not available not available	77% 67%	not available not available	not available not available		



Preserving our land and wildlife *continued*

6.8	COASTLINE CONTINUED	TRENDS				GOALS	
		FL	1985	1990	1997	2000	2010
	6.8.3 Natural coastal areas						
	a) Acres of coastal land bordering the beach that remained in natural condition	to be included in future edition					
	b) Percentage of coastal land bordering the beach that remained in natural condition	to be included in future edition					
6.9	CORAL REEFS	FL1993	1985	1990	1997	2000	2010
	6.9.1 Coral reefs: Percentage of sampled coral reefs that are healthy	63%	not available	not available	not available		
6.10	LAND STEWARDSHIP	FL	1985	1990	1997	2000	2010
	6.10.1 Land in managed areas: Acres of land in public ownership where some degree of legal protection is offered to native plants and animals						
	a) Environmentally sensitive lands purchased by Broward County	not available	not available	971	971		
	b) County-managed regional parks	not available	not available	not available	4,725		
	c) State parks ^{not available}	not available	not available	432			
	d) Everglades National Park	not available	not available	not available	521,090		
	e) Total	not available	not available	not available	527,218		
	6.10.2 Aquatic preserves: Acres of fresh and saltwater submerged land that is protected by state government	to be included in future edition					



Being part of the solution

6.11 ENERGY USE	TRENDS				GOALS	
	FL1990	1985	1990	1996	2000	2010
6.11.1 <i>Total energy use per resident:</i> Total energy consumption per resident (in millions of British thermal units)	237	not available	not available	not available		
6.11.2 <i>Use of renewable energy sources:</i> Percentage of total energy consumption using renewable energy sources such as ethanol, direct solar, wood and waste						
a) Broward County		not available	not available	not available		
b) Florida	4.2%	4.7%	4.1%	not available		
6.11.3 <i>Electricity</i>						
a) <i>Electrical energy conservation:</i> Power plant construction (in gigawatt hours) avoided by utilities through customer reductions in energy use	to be included in future edition					
b) <i>Electrical demand reduction:</i> Power plant construction (in megawatt hours) avoided by utilities by shifting demand to off-peak periods	to be included in future edition					
c) <i>Daily household electricity consumption per resident:</i> Average number of kilowatt hours per day consumed per resident for household use	15	14	16	18		
d) <i>Total daily electricity consumption:</i> Total number of kilowatt hours consumed per day (in thousands) for						
1) residential use	190,000	15,963	19,931	24,500		
2) commercial/industrial uses	180,000	12,841	16,878	19,456		
3) all uses (including other uses)	382,000	28,988	37,021	44,214		
6.11.4 <i>Motor fuel consumption:</i> Average number of gallons of gasoline sold per resident	FL 1994 474	455	421	not available		



Being part of the solution *continued*

		TRENDS			GOALS		
6.12	WASTE MANAGEMENT	FL	1990	1993	1995	2000	2010
<p>6.12.1 <i>Waste production:</i> Pounds of municipal solid waste collected per resident per year</p> <p>a) Broward County</p> <p>b) Florida</p>			2,957 3,093	3,194 3,256	4,373 3,504		
<p>6.12.2 <i>Waste disposal:</i> Percentage of municipal solid waste collected that is</p> <p>a) recycled</p> <p> 1) Broward County</p> <p> 2) Florida</p> <p>b) landfilled</p> <p> 1) Broward County</p> <p> 2) Florida</p> <p>c) combusted</p> <p> 1) Broward County</p> <p> 2) Florida</p>			11% 15%	29% 31%	43% 40%		
<p>6.13.1 <i>Production of hazardous waste:</i> Total tons of hazardous waste generated</p> <p>a) in high concentration</p> <p>b) in low concentration</p>			to be included in future edition				



Being part of the solution *continued*

6.14	LITTER	TRENDS			GOALS		
		FL	1985	1990	1995	2000	2010
	6.14.1 <i>Roads</i> : Percentage increase (+) or decrease (-) in roadside litter	to be included in future edition					
	6.14.2 <i>Fresh waterways</i> : Percentage increase (+) or decrease (-) in litter on fresh waterways	to be included in future edition					
	6.14.3 <i>Coast</i> : Percentage increase (+) or decrease (-) in litter on the county's coastline	to be included in future edition					

