

BRUNSWICK COUNTY INTERBASIN TRANSFER
2014 ANNUAL REPORT

Due to the decreased rainfall levels during the month of July 2014, the average day usage and peak day potable water usage were slightly higher than in the previous year. However, the total water production in the month of July at the Northwest Water treatment plant was 15.23 mgd or 63.45% of its permitted capacity. The potable water usage by customer class was up slightly for the wholesale customers, retail customers, and industrial customers when compared to 2013. The total interbasin transfer in the month of July was reduced to 8.11 mgd.

Wastewater discharges decreased slightly versus the prior year due to the decreased rainfall. Most of the wastewater effluent was used as reclaimed water for irrigation of golf courses and tree farms and used for groundwater recharge.

The interconnection with the Little River Water Company was completed and placed into service. The County is nearing completion with its Advanced Meter Infrastructure Project which will improve our ability to track flows by basin.

	July 2014	July 2013
Total Water Production (mg)	591.182	557.63
Total Water Sold (mg)	543.619	500.75
Total IBT (mgd) Shallotte	8.11	8.32
Total IBT (mgd) Waccamaw	0.30	0.32
Total Wastewater Flow (mg)	218.532	223.583

**AVERAGE DAY IN PEAK MONTH
TRANSFERRED BETWEEN RIVER BASINS**

	July-14 (mg)	July-14 (mgd)
Northwest WTP	472.232	15.23
NC 211 WTP	118.95	3.84
Total Plant Flows	591.182	19.07
Total Billed Flows	543.619	17.54

Wholesale/Industrial Customers by Basin

Cape Fear Basin

ADM	34.178	1.10
Bald Head Island	2.182	0.07
Caswell Beach	6.379	0.21
DAK Monomers	4.33	0.14
Brunswick Regional (H2GO)	55.862	1.80
Leland	9.266	0.30
Navassa	2.87	0.09
Northwest	0.712196	0.02
Oak Island	42.51716	1.37
Primary Energy	37.774	1.22
Southport	19.172	0.62
Total Flows	215.242356	6.94

Shalotte River Basin

Holden Beach	25.661	0.83
Ocean Isle Beach	37.906	1.22
Shalotte	12.108	0.39
Total Flows	75.675	2.44

Retail Flows	252.701644	8.15
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Cape Fear River Basin	88.512	2.86
Shalotte River Basin	155.586	5.02
Waccamaw River Basin	8.604	0.28
	252.702	

Total Billed Flow By Basin

Cape Fear River Basin	303.754356	56%
Shalotte River Basin	231.261	43%
Waccamaw River Basin	8.604	2%
	543.619356	100%

Non Revenue Flow Allocation

(Based upon Billed Percentages)

Cape Fear	26.57644228	1.53
Shalotte	20.23376619	
Waccamaw	0.75279154	

Total Transferred

Cape Fear to Shalotte River Basin	251.4947662	8.11
Cape Fear to Waccamaw River Basin	9.35679154	0.30

Wastewater Discharges

NPDES Permits	July-14 (mg)	July-14 (mgd)
Cape Fear River Basin		
Northeast Brunswick Regional WWTP	57.26	1.847
Waccamaw River Basin		
Carolina Shores WWTP	10.925	0.352
Non-Discharge Permits		
Shalotte River Basin		
Sea Trail WWTP	6.12	0.197
West Brunswick WRF	112.365	3.625
Ocean Ridge WWTP	1.4466	0.047
Shalotte WWTP	4.78	0.154
Ocean Isle Beach WWTP	25.635	0.827
Total Shalotte River Basin	150.3466	4.850