

North Carolina Division of Air Quality Monthly Hazardous Air Pollutant Report

Report Date	October 22, 2015		
Data period	9/1/2015	to	9/30/2015
Prepared by	Ambient Monitoring Section		



Limits and restrictions: Every effort has been made to ensure these data are accurate. This report is for informational purposes.

2015 Hazardous Air Pollutant	24-Hour Average Sample Concentration (ppbv) Samples are collected 1 every 6 days									Year to Date	
	Site Name	County	AQS ID	3-Sep	9-Sep	15-Sep	21-Sep	27-Sep	High	90th Percentile	
				Thursday	Wednesday	Tuesday	Monday	Sunday			
Acetaldehyde*	AB Tech.	Buncombe	37-021-0035	NO	NO	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	37-119-0041	NO	NO	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	37-067-0022	NO	NO	NO	NO	NO	NO	NO	
	Candor	Montgomery	37-123-0001	0.62	0.29	0.54	0.62	0.25	0.91	0.74	
	Blackstone	Lee	37-105-0002	0.65	0.35	0.64	0.53	0.26	1.14	0.74	
	Millbrook	Wake	37-183-0014	0.83	0.47	0.78	0.55	0.26	1.34	0.97	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
Benzene	AB Tech.	Buncombe	37-021-0035	0.14	0.11	0.13	0.07	ND	0.26	0.17	
	Garinger	Mecklenburg	37-119-0041	0.17	0.10	0.29	0.10	0.05	0.34	0.26	
	Hattie Ave.	Forsyth	37-067-0022	0.10	0.11	0.33	0.06	ND	0.58	0.26	
	Candor	Montgomery	37-123-0001	0.07	ND	ND	0.05	ND	0.20	0.16	
	Blackstone	Lee	37-105-0002	0.07	ND	0.10	0.06	ND	0.21	0.19	
	Millbrook	Wake	37-183-0014	0.24	0.22	0.26	0.15	0.11	0.38	0.28	
	Battleship	New Hanover	37-129-0010	0.05	0.03	0.11	0.05	0.03	0.19	0.14	
Ethylbenzene	AB Tech.	Buncombe	37-021-0035	0.05	0.06	0.06	0.12	ND	0.12	0.07	
	Garinger	Mecklenburg	37-119-0041	0.08	0.06	0.16	ND	ND	0.16	0.10	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	0.17	ND	ND	0.17	0.07	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.04	0.03	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.06	0.04	
	Millbrook	Wake	37-183-0014	ND	ND	0.11	ND	ND	0.32	0.07	
	Battleship	New Hanover	37-129-0010	ND	ND	0.05	ND	ND	0.06	0.05	
Formaldehyde*	AB Tech.	Buncombe	37-021-0035	NO	NO	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	37-119-0041	NO	NO	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	37-067-0022	NO	NO	NO	NO	NO	NO	NO	
	Candor	Montgomery	37-123-0001	3.33	1.21	2.31	2.33	0.63	5.42	3.53	
	Blackstone	Lee	37-105-0002	3.51	1.61	2.50	2.04	0.48	7.84	3.69	
	Millbrook	Wake	37-183-0014	4.23	1.99	2.84	2.14	0.92	8.03	4.22	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
n-Hexane	AB Tech.	Buncombe	37-021-0035	ND	ND	0.13	0.05	ND	0.27	0.13	
	Garinger	Mecklenburg	37-119-0041	ND	ND	0.16	ND	ND	0.26	0.19	
	Hattie Ave.	Forsyth	37-067-0022	0.05	0.11	0.27	ND	ND	0.38	0.17	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.08	0.06	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.13	0.07	
	Millbrook	Wake	37-183-0014	0.08	0.14	0.31	ND	ND	0.72	0.30	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.31	0.10	
Styrene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	0.12	ND	0.13	0.09	
	Garinger	Mecklenburg	37-119-0041	ND	ND	0.08	ND	ND	0.14	0.10	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.11	0.08	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.10	0.08	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.18	0.10	
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.13	0.05	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.13	0.10	

ND = not detected in sample
 NS = no valid sample / data
 NO = site not operating
 * Acetaldehyde and Formaldehyde are not monitored at all sites
 Blackstone site began operating in November 2013

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2015	24-Hour Average Sample Concentration (ppbv) Samples are collected 1 every 6 days								Year to Date	
Hazardous Air Pollutant	Site Name	County	AQS ID	3-Sep	9-Sep	15-Sep	21-Sep	27-Sep	High	90th Percentile
				Thursday	Wednesday	Tuesday	Monday	Sunday		
Toluene	AB Tech.	Buncombe	37-021-0035	0.42	0.64	0.42	0.55	ND	1.57	1.03
	Garinger	Mecklenburg	37-119-0041	0.44	0.34	0.92	0.27	0.13	0.92	0.63
	Hattie Ave.	Forsyth	37-067-0022	0.30	0.36	1.13	0.14	0.10	1.13	0.43
	Candor	Montgomery	37-123-0001	0.21	0.14	0.05	0.11	0.08	0.25	0.18
	Blackstone	Lee	37-105-0002	0.14	0.15	0.25	0.10	0.10	0.31	0.25
	Millbrook	Wake	37-183-0014	0.40	0.24	0.63	0.21	0.23	1.28	0.58
1,2,4-Trimethylbenzene	Battleship	New Hanover	37-129-0010	0.22	0.10	0.34	0.07	0.17	1.06	0.23
	AB Tech.	Buncombe	37-021-0035	0.07	0.14	0.09	0.16	ND	0.16	0.09
	Garinger	Mecklenburg	37-119-0041	0.25	0.22	0.20	0.18	0.14	0.29	0.24
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	0.26	ND	0.06	0.26	0.11
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.10	0.06
	Blackstone	Lee	37-105-0002	ND	ND	ND	0.07	ND	0.11	0.08
m/p-Xylene	Millbrook	Wake	37-183-0014	ND	0.14	0.21	0.10	0.10	0.21	0.10
	Battleship	New Hanover	37-129-0010	ND	0.13	0.15	0.11	0.09	0.22	0.14
	AB Tech.	Buncombe	37-021-0035	0.18	0.20	0.19	0.24	ND	0.24	0.19
	Garinger	Mecklenburg	37-119-0041	0.23	0.20	0.51	0.10	0.04	0.51	0.29
	Hattie Ave.	Forsyth	37-067-0022	0.14	0.14	0.56	0.04	ND	0.56	0.23
	Candor	Montgomery	37-123-0001	ND	0.03	ND	ND	ND	0.10	0.05
o-Xylene	Blackstone	Lee	37-105-0002	0.04	0.05	0.08	0.03	ND	0.15	0.09
	Millbrook	Wake	37-183-0014	0.17	0.15	0.34	0.05	0.03	1.10	0.32
	Battleship	New Hanover	37-129-0010	0.06	0.04	0.15	0.08	0.03	0.22	0.11
	AB Tech.	Buncombe	37-021-0035	0.07	0.08	0.08	0.07	ND	0.10	0.08
	Garinger	Mecklenburg	37-119-0041	0.09	0.08	0.20	0.05	ND	0.20	0.12
	Hattie Ave.	Forsyth	37-067-0022	0.06	0.06	0.21	0.02	ND	0.21	0.09
o-Xylene	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.05	0.02
	Blackstone	Lee	37-105-0002	ND	ND	0.04	ND	ND	0.07	0.04
	Millbrook	Wake	37-183-0014	0.06	0.06	0.14	ND	ND	0.46	0.08
	Battleship	New Hanover	37-129-0010	ND	ND	0.07	0.04	ND	0.09	0.06

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24-hour Average Values (Most Recent 3 Years), ppbv

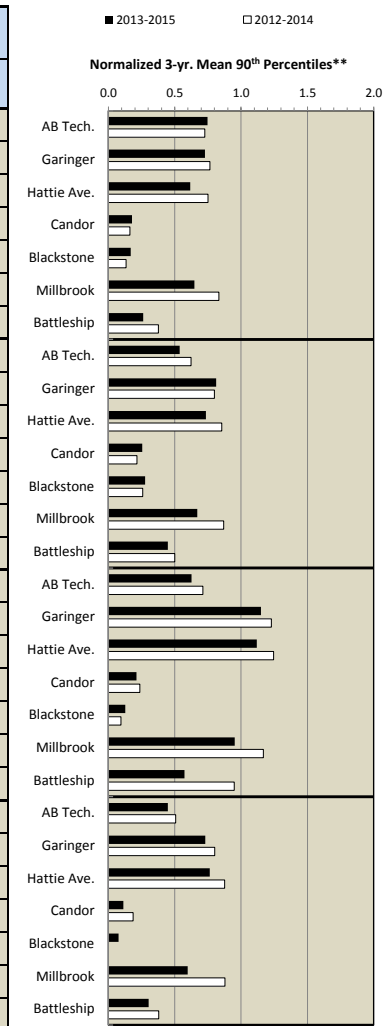
Hazardous Air Pollutant	Site Name	County	RYTD Valid Sample Days***	24-hr Average Concentrations 90 th Percentile				Normalized 3 yr. Mean 90 th Percentiles**
				RYTD 2015	2014	2013	2012	
Acetaldehyde *	AB Tech.	Buncombe	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	
	Candor	Montgomery	55	0.72	0.68	0.54	NO	
	Blackstone	Lee	55	0.74	0.74	0.64	NO	
	Millbrook	Wake	50	1.00	1.01	0.80	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
Benzene	AB Tech.	Buncombe	58	0.17	0.26	0.25	0.29	
	Garinger	Mecklenburg	56	0.27	0.31	0.35	0.43	
	Hattie Ave.	Forsyth	57	0.26	0.31	0.33	0.34	
	Candor	Montgomery	58	0.16	0.21	0.19	0.16	
	Blackstone	Lee	59	0.18	0.22	0.14	NO	
	Millbrook	Wake	58	0.29	0.27	0.36	0.43	
	Battleship	New Hanover	59	0.14	0.23	0.19	0.22	
Ethylbenzene	AB Tech.	Buncombe	58	0.06	0.02	0.11	0.12	
	Garinger	Mecklenburg	56	0.09	0.08	0.16	0.12	
	Hattie Ave.	Forsyth	57	0.07	0.05	0.20	0.13	
	Candor	Montgomery	58	0.01	0.00	0.06	0.04	
	Blackstone	Lee	59	0.03	0.00	0.00	NO	
	Millbrook	Wake	58	0.07	0.05	0.15	0.19	
	Battleship	New Hanover	59	0.04	0.01	0.09	0.08	
Formaldehyde*	AB Tech.	Buncombe	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	
	Candor	Montgomery	60	3.45	2.85	2.36	NO	
	Blackstone	Lee	61	3.60	2.99	1.40	NO	
	Millbrook	Wake	56	4.07	3.59	2.99	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
n-Hexane	AB Tech.	Buncombe	57	0.14	0.13	0.15	0.14	
	Garinger	Mecklenburg	56	0.21	0.23	0.26	0.28	
	Hattie Ave.	Forsyth	56	0.17	0.20	0.30	0.25	
	Candor	Montgomery	57	0.06	0.07	0.06	0.06	
	Blackstone	Lee	59	0.08	0.08	0.06	NO	
	Millbrook	Wake	57	0.36	0.23	0.36	0.42	
	Battleship	New Hanover	59	0.11	0.10	0.15	0.26	
Styrene	AB Tech.	Buncombe	58	0.09	0.00	0.13	0.12	
	Garinger	Mecklenburg	56	0.08	0.00	0.14	0.11	
	Hattie Ave.	Forsyth	57	0.05	0.00	0.12	0.10	
	Candor	Montgomery	58	0.06	0.00	0.11	0.09	
	Blackstone	Lee	59	0.09	0.00	0.00	NO	
	Millbrook	Wake	58	0.03	0.00	0.13	0.11	
	Battleship	New Hanover	59	0.07	0.00	0.12	0.09	

Notes:
 ND = not detected in sample
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 RYTD = rolling-year-to-date
 * Acetaldehyde and Formaldehyde are not monitored at all sites
 ***The maximum possible number of valid sample days = 61.
 Blackstone site began operating in November 2013

**The white bar shows the 90th percentile value for each pollutant at each site as averaged from the previous 3 years of data and normalized to show how it compares to a 90th percentile statewide historical value (1.0 on the graph). Similarly, the black bar shows the normalized 90th percentile for the latest 3 years, including a rolling 1 year value (RYTD) for the current year's value.

24-hour Average Values (Most Recent 3 Years), ppbv

Hazardous Air Pollutant	Site Name	County	RYTD Valid Sample Days***	24-hr Average Concentrations 90th Percentile			
				RYTD 2015	2014	2013	2012
Toluene	AB Tech.	Buncombe	57	0.79	0.52	0.71	0.74
	Garinger	Mecklenburg	55	0.65	0.57	0.75	0.76
	Hattie Ave.	Forsyth	55	0.43	0.37	0.87	0.79
	Candor	Montgomery	55	0.17	0.13	0.19	0.13
	Blackstone	Lee	56	0.22	0.13	0.11	NO
	Millbrook	Wake	55	0.59	0.42	0.75	1.09
	Battleship	New Hanover	56	0.23	0.19	0.29	0.54
1,2,4-Trimethylbenzene	AB Tech.	Buncombe	58	0.09	0.05	0.26	0.15
	Garinger	Mecklenburg	56	0.22	0.08	0.31	0.21
	Hattie Ave.	Forsyth	57	0.09	0.05	0.40	0.18
	Candor	Montgomery	58	0.04	0.15	0.00	0.01
	Blackstone	Lee	59	0.07	0.06	ND	NO
	Millbrook	Wake	57	0.10	0.09	0.31	0.25
	Battleship	New Hanover	59	0.12	0.05	0.16	0.16
m/p-Xylene	AB Tech.	Buncombe	58	0.19	0.15	0.47	0.30
	Garinger	Mecklenburg	56	0.29	0.31	0.88	0.39
	Hattie Ave.	Forsyth	57	0.23	0.20	1.01	0.39
	Candor	Montgomery	58	0.05	0.04	0.18	0.08
	Blackstone	Lee	59	0.08	0.05	0.03	NO
	Millbrook	Wake	58	0.29	0.19	0.76	0.57
	Battleship	New Hanover	59	0.11	0.13	0.50	0.60
o-Xylene	AB Tech.	Buncombe	58	0.08	0.03	0.13	0.11
	Garinger	Mecklenburg	56	0.12	0.08	0.19	0.15
	Hattie Ave.	Forsyth	57	0.09	0.05	0.27	0.15
	Candor	Montgomery	58	0.00	0.00	0.06	0.04
	Blackstone	Lee	59	0.04	0.00	0.00	NO
	Millbrook	Wake	58	0.08	0.05	0.19	0.24
	Battleship	New Hanover	59	0.05	0.02	0.10	0.09



Notes:

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RYTD = rolling-year-to-date

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***The maximum possible number of valid sample days = 61.

Blackstone site began operating in November 2013

**The white bar shows the 90th percentile value for each pollutant at each site as averaged from the previous 3 years of data and normalized to show how it compares to a 90th percentile statewide historical value (1.0 on the graph). Similarly, the black bar shows the normalized 90th percentile for the latest 3 years, including a rolling 1 year value (RYTD) for the current year's value.