

## North Carolina Division of Air Quality Monthly Hazardous Air Pollutant Report

Report Date	June 9, 2015		
Data period	4/1/2015	to	4/30/2015
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	24-Hour Average Sample Concentration (ppbv)								Year to Date		
	Samples are collected 1 every 6 days								High	90th Percentile	
	Hazardous Air Pollutant	Site Name	County	AQS ID	6-Apr	12-Apr	18-Apr	24-Apr			30-Apr
				Monday	Sunday	Saturday	Friday	Thursday			
<b>Acetaldehyde*</b>	AB Tech.	Buncombe	37-021-0035	NO	NO	NO	NO	NO	NO	NO	NO
	Garinger	Mecklenburg	37-119-0041	NO	NO	NO	NO	NO	NO	NO	NO
	Hattie Ave.	Forsyth	37-067-0022	NO	NO	NO	NO	NO	NO	NO	NO
	Candor	Montgomery	37-123-0001	0.58	0.79	0.43	0.53	0.45	0.79	0.63	
	Blackstone	Lee	37-105-0002	0.57	0.72	0.45	0.52	0.33	0.72	0.64	
	Millbrook	Wake	37-183-0014	0.76	0.95	0.88	0.70	0.55	0.98	0.95	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
<b>Benzene</b>	AB Tech.	Buncombe	37-021-0035	0.08	0.13	0.14	0.10	0.16	0.26	0.20	
	Garinger	Mecklenburg	37-119-0041	0.16	0.18	0.18	0.13	0.21	0.34	0.27	
	Hattie Ave.	Forsyth	37-067-0022	0.22	0.08	0.17	0.13	0.17	0.58	0.26	
	Candor	Montgomery	37-123-0001	0.06	0.08	0.09	0.08	0.10	0.20	0.18	
	Blackstone	Lee	37-105-0002	0.08	0.11	0.09	0.10	0.11	0.21	0.19	
	Millbrook	Wake	37-183-0014	0.14	0.14	0.23	0.11	0.15	0.37	0.24	
	Battleship	New Hanover	37-129-0010	0.10	0.10	0.11	0.12	0.08	0.19	0.16	
<b>Ethylbenzene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	0.07	0.05	0.07	0.07	0.05	
	Garinger	Mecklenburg	37-119-0041	0.02	0.08	0.11	0.06	0.10	0.11	0.10	
	Hattie Ave.	Forsyth	37-067-0022	0.05	ND	0.08	0.06	0.08	0.12	0.08	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	0.04	0.04	0.00	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	ND	ND	
	Millbrook	Wake	37-183-0014	0.01	ND	0.05	0.05	0.07	0.10	0.07	
	Battleship	New Hanover	37-129-0010	ND	ND	0.06	0.05	0.04	0.06	0.04	
<b>Formaldehyde*</b>	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	1.51	1.89	1.02	1.60	1.18	1.89	1.55	
	Blackstone	Lee	37-105-0002	1.53	1.78	1.20	1.74	1.04	1.78	1.63	
	Millbrook	Wake	37-183-0014	2.30	2.54	1.89	2.13	1.48	2.54	2.32	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
<b>n-Hexane</b>	AB Tech.	Buncombe	37-021-0035	0.02	0.05	0.10	0.05	0.13	0.15	0.13	
	Garinger	Mecklenburg	37-119-0041	0.11	0.12	0.16	0.08	0.16	0.24	0.21	
	Hattie Ave.	Forsyth	37-067-0022	0.15	0.03	0.12	0.11	0.11	0.38	0.17	
	Candor	Montgomery	37-123-0001	ND	0.04	0.04	ND	ND	0.08	0.05	
	Blackstone	Lee	37-105-0002	0.00	0.03	0.03	ND	0.07	0.11	0.07	
	Millbrook	Wake	37-183-0014	0.06	0.06	0.20	0.11	0.17	0.39	0.36	
	Battleship	New Hanover	37-129-0010	0.03	0.02	0.07	0.31	ND	0.31	0.11	
<b>Styrene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	0.13	ND	0.09	0.13	0.03	
	Garinger	Mecklenburg	37-119-0041	ND	ND	0.14	ND	0.10	0.14	0.03	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	0.11	ND	ND	0.11	0.00	
	Candor	Montgomery	37-123-0001	ND	ND	0.06	ND	ND	0.06	0.00	
	Blackstone	Lee	37-105-0002	ND	ND	0.06	ND	0.10	0.10	0.03	
	Millbrook	Wake	37-183-0014	ND	ND	0.05	ND	ND	0.05	0.03	
	Battleship	New Hanover	37-129-0010	ND	ND	0.13	ND	0.10	0.13	0.01	

**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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2014	<b>24-Hour Average Sample Concentration (ppbv)</b>								Year to Date	
Hazardous Air Pollutant	Site Name	County	AQS ID	6-Apr	12-Apr	18-Apr	24-Apr	30-Apr	High	90th Percentile
				Monday	Sunday	Saturday	Friday	Thursday		
<b>Toluene</b>	AB Tech.	Buncombe	37-021-0035	0.32	0.28	0.86	0.16	0.35	1.05	0.43
	Garinger	Mecklenburg	37-119-0041	0.29	0.31	0.40	0.22	0.50	0.67	0.50
	Hattie Ave.	Forsyth	37-067-0022	0.41	0.11	0.32	0.25	0.34	0.89	0.41
	Candor	Montgomery	37-123-0001	0.01	0.05	0.17	0.08	0.09	0.17	0.10
	Blackstone	Lee	37-105-0002	0.05	0.15	0.13	0.08	0.11	0.15	0.12
	Millbrook	Wake	37-183-0014	0.19	0.23	0.49	0.13	0.29	0.65	0.50
	Battleship	New Hanover	37-129-0010	0.15	0.12	0.19	0.14	0.10	0.20	0.19
<b>1,2,4-Trimethylbenzene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	0.09	0.07	0.09	0.09	0.07
	Garinger	Mecklenburg	37-119-0041	ND	0.10	0.11	0.08	0.12	0.12	0.10
	Hattie Ave.	Forsyth	37-067-0022	0.02	ND	0.09	0.09	0.09	0.12	0.09
	Candor	Montgomery	37-123-0001	ND	ND	ND	0.07	0.07	0.07	0.01
	Blackstone	Lee	37-105-0002	ND	ND	ND	0.11	ND	0.11	0.00
	Millbrook	Wake	37-183-0014	ND	ND	0.01	0.06	0.09	0.09	0.05
	Battleship	New Hanover	37-129-0010	ND	ND	0.08	0.07	0.06	0.08	0.06
<b>m/p-Xylene</b>	AB Tech.	Buncombe	37-021-0035	0.05	0.07	0.15	0.09	0.16	0.16	0.12
	Garinger	Mecklenburg	37-119-0041	0.16	0.18	0.27	0.13	0.27	0.43	0.27
	Hattie Ave.	Forsyth	37-067-0022	0.23	0.04	0.16	0.14	0.16	0.49	0.23
	Candor	Montgomery	37-123-0001	ND	ND	0.03	0.05	0.06	0.06	0.04
	Blackstone	Lee	37-105-0002	0.01	0.03	0.03	0.05	0.07	0.07	0.04
	Millbrook	Wake	37-183-0014	0.11	0.08	0.26	0.08	0.15	0.41	0.27
	Battleship	New Hanover	37-129-0010	0.07	0.04	0.13	0.10	0.08	0.13	0.09
<b>o-Xylene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	0.09	0.06	0.08	0.09	0.06
	Garinger	Mecklenburg	37-119-0041	0.03	0.10	0.12	0.07	0.13	0.13	0.12
	Hattie Ave.	Forsyth	37-067-0022	0.06	ND	0.09	0.08	0.09	0.15	0.09
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	ND	ND
	Blackstone	Lee	37-105-0002	ND	ND	ND	0.05	0.05	0.05	0.00
	Millbrook	Wake	37-183-0014	0.01	ND	0.07	0.05	0.08	0.12	0.08
	Battleship	New Hanover	37-129-0010	0.00	ND	0.07	0.06	0.05	0.07	0.05

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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 <sup>th</sup> Percentile				Normalized 3 yr. Mean 90 <sup>th</sup> 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	54	0.64	0.68	0.54	NO	
	Blackstone	Lee	55	0.62	0.74	0.64	NO	
	Millbrook	Wake	55	0.97	1.01	0.80	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
Benzene	AB Tech.	Buncombe	60	0.22	0.26	0.25	0.29	
	Garinger	Mecklenburg	58	0.29	0.31	0.35	0.43	
	Hattie Ave.	Forsyth	56	0.26	0.31	0.33	0.34	
	Candor	Montgomery	59	0.16	0.21	0.19	0.16	
	Blackstone	Lee	61	0.18	0.22	0.14	NO	
	Millbrook	Wake	60	0.24	0.27	0.36	0.43	
	Battleship	New Hanover	58	0.14	0.23	0.19	0.22	
Ethylbenzene	AB Tech.	Buncombe	60	0.03	0.02	0.11	0.12	
	Garinger	Mecklenburg	58	0.09	0.08	0.16	0.12	
	Hattie Ave.	Forsyth	56	0.07	0.05	0.20	0.13	
	Candor	Montgomery	59	0.00	0.00	0.06	0.04	
	Blackstone	Lee	61	0.00	0.00	0.00	NO	
	Millbrook	Wake	60	0.05	0.05	0.15	0.19	
	Battleship	New Hanover	58	0.02	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	59	2.85	2.85	2.36	NO	
	Blackstone	Lee	61	2.93	2.99	1.40	NO	
	Millbrook	Wake	61	3.58	3.59	2.99	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
n-Hexane	AB Tech.	Buncombe	59	0.13	0.13	0.15	0.14	
	Garinger	Mecklenburg	58	0.24	0.23	0.26	0.28	
	Hattie Ave.	Forsyth	55	0.20	0.20	0.30	0.25	
	Candor	Montgomery	58	0.05	0.07	0.06	0.06	
	Blackstone	Lee	61	0.07	0.08	0.06	NO	
	Millbrook	Wake	59	0.33	0.23	0.36	0.42	
	Battleship	New Hanover	58	0.11	0.10	0.15	0.26	
Styrene	AB Tech.	Buncombe	60	0.00	0.00	0.13	0.12	
	Garinger	Mecklenburg	58	0.01	0.00	0.14	0.11	
	Hattie Ave.	Forsyth	56	0.00	0.00	0.12	0.10	
	Candor	Montgomery	59	0.00	0.00	0.11	0.09	
	Blackstone	Lee	61	0.00	0.00	0.00	NO	
	Millbrook	Wake	60	0.01	0.00	0.13	0.11	
	Battleship	New Hanover	58	0.00	0.00	0.12	0.09	

**Notes:**

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NO = site not operating

RYTD = rolling-year-to-date

\* Acetaldehyde and Formaldehyde are not monitored at all sites

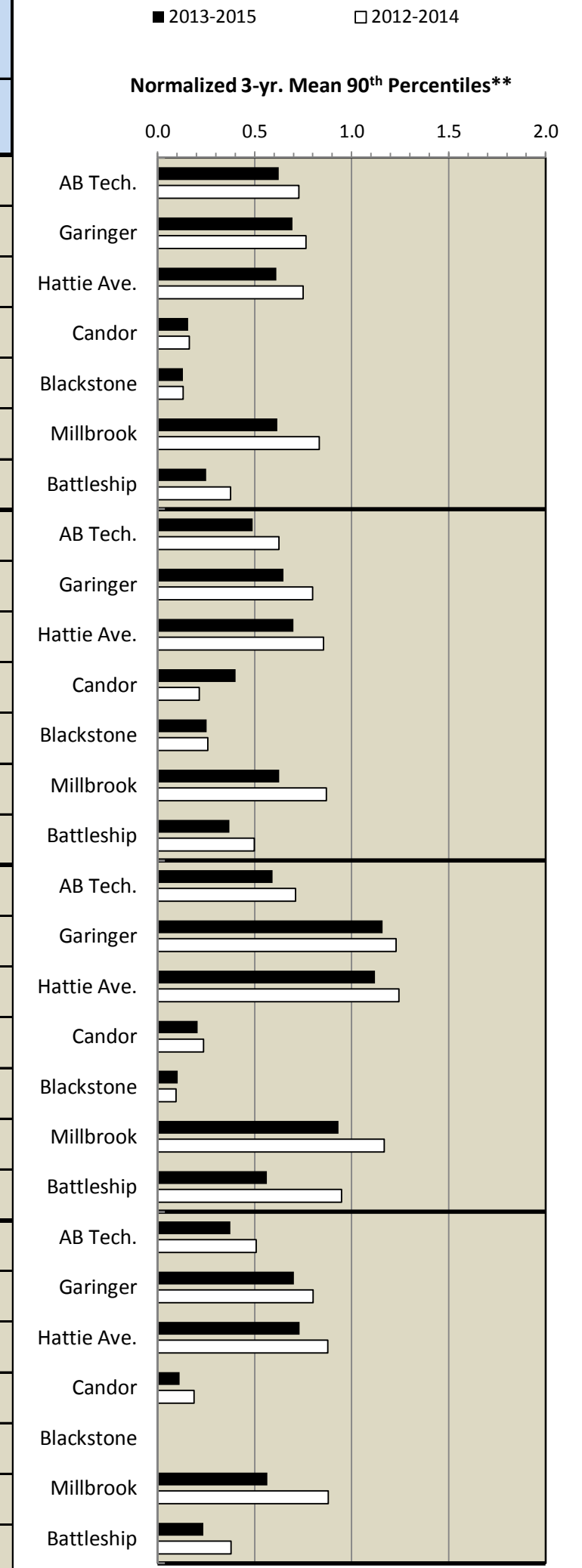
\*\*\*The maximum possible number of valid sample days = 61.

Blackstone site began operating in November 2013

\*\*The white bar shows the 90<sup>th</sup> 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 90<sup>th</sup> percentile statewide historical value (1.0 on the graph). Similarly, the black bar shows the normalized 90<sup>th</sup> 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				2013-2015	2012-2014
				RYTD 2015	2014	2013	2012		
Toluene	AB Tech.	Buncombe	59	0.46	0.52	0.71	0.74		
	Garinger	Mecklenburg	57	0.57	0.57	0.75	0.76		
	Hattie Ave.	Forsyth	54	0.42	0.37	0.87	0.79		
	Candor	Montgomery	56	0.12	0.13	0.19	0.13		
	Blackstone	Lee	58	0.11	0.13	0.11	NO		
	Millbrook	Wake	57	0.50	0.42	0.75	1.09		
	Battleship	New Hanover	55	0.19	0.19	0.29	0.54		
1,2,4-Trimethylbenzene	AB Tech.	Buncombe	60	0.05	0.05	0.26	0.15		
	Garinger	Mecklenburg	58	0.10	0.08	0.31	0.21		
	Hattie Ave.	Forsyth	56	0.07	0.05	0.40	0.18		
	Candor	Montgomery	59	0.15	0.15	0.00	0.01		
	Blackstone	Lee	61	0.06	0.06	ND	NO		
	Millbrook	Wake	60	0.07	0.09	0.31	0.25		
	Battleship	New Hanover	58	0.06	0.05	0.16	0.16		
m/p-Xylene	AB Tech.	Buncombe	60	0.15	0.15	0.47	0.30		
	Garinger	Mecklenburg	58	0.31	0.31	0.88	0.39		
	Hattie Ave.	Forsyth	56	0.23	0.20	1.01	0.39		
	Candor	Montgomery	59	0.04	0.04	0.18	0.08		
	Blackstone	Lee	61	0.05	0.05	0.03	NO		
	Millbrook	Wake	60	0.26	0.19	0.76	0.57		
	Battleship	New Hanover	58	0.10	0.13	0.50	0.60		
o-Xylene	AB Tech.	Buncombe	60	0.04	0.03	0.13	0.11		
	Garinger	Mecklenburg	58	0.10	0.08	0.19	0.15		
	Hattie Ave.	Forsyth	56	0.07	0.05	0.27	0.15		
	Candor	Montgomery	59	0.00	0.00	0.06	0.04		
	Blackstone	Lee	61	0.00	0.00	0.00	NO		
	Millbrook	Wake	60	0.07	0.05	0.19	0.24		
	Battleship	New Hanover	58	0.02	0.02	0.10	0.09		



**Notes:**

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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.