

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

Report Date	April 6, 2015		
Data period	2/1/2015	to	3/1/2015
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.

2014	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	5-Feb	11-Feb	17-Feb	23-Feb			1-Mar
				Thursday	Wednesday	Tuesday	Monday	Sunday			
<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	0.53	0.45	0.50	0.48	0.45	0.62	0.54	
	Blackstone	Lee	37-105-0002	0.45	0.64	0.49	0.46	0.41	0.64	0.51	
	Millbrook	Wake	37-183-0014	0.55	0.66	0.75	0.63	0.56	0.75	0.67	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	NO
<b>Benzene</b>	AB Tech.	Buncombe	37-021-0035	0.15	0.20	0.15	0.17	0.15	0.26	0.22	
	Garinger	Mecklenburg	37-119-0041	0.20	0.26	0.25	0.19	0.24	0.32	0.27	
	Hattie Ave.	Forsyth	37-067-0022	0.20	0.28	0.19	0.16	0.26	0.28	0.26	
	Candor	Montgomery	37-123-0001	0.13	0.20	0.18	0.16	0.16	0.19	0.19	
	Blackstone	Lee	37-105-0002	0.14	0.21	0.16	0.17	0.18	0.21	0.19	
	Millbrook	Wake	37-183-0014	0.14	0.20	0.16	0.19	0.16	0.24	0.22	
	Battleship	New Hanover	37-129-0010	0.15	0.18	0.12	0.16	0.12	0.19	0.18	
<b>Ethylbenzene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.01	0.00	
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.02	0.02	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.01	0.00	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	ND	ND	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	ND	ND	
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.01	0.00	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	ND	ND	
<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	1.29	0.93	0.99	0.90	0.95	1.30	1.29	
	Blackstone	Lee	37-105-0002	1.09	1.22	1.17	1.01	0.84	1.22	1.22	
	Millbrook	Wake	37-183-0014	1.60	1.70	1.67	1.46	1.18	1.80	1.71	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
<b>n-Hexane</b>	AB Tech.	Buncombe	37-021-0035	0.05	0.09	0.04	0.08	0.02	0.15	0.14	
	Garinger	Mecklenburg	37-119-0041	0.10	0.14	0.08	0.09	0.09	0.22	0.21	
	Hattie Ave.	Forsyth	37-067-0022	0.07	0.17	0.05	0.05	0.06	0.18	0.17	
	Candor	Montgomery	37-123-0001	0.04	0.06	0.04	0.05	0.02	0.08	0.06	
	Blackstone	Lee	37-105-0002	0.03	0.04	0.04	0.04	0.05	0.11	0.09	
	Millbrook	Wake	37-183-0014	0.09	0.05	0.04	0.06	0.05	0.35	0.27	
	Battleship	New Hanover	37-129-0010	0.05	0.05	0.03	0.11	0.00	0.17	0.11	
<b>Styrene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	ND	ND	
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	ND	ND	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	ND	ND	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	ND	ND	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	ND	ND	
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	ND	ND	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	ND	ND	

**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> Samples are collected 1 every 6 days								Year to Date	
Hazardous Air Pollutant	Site Name	County	AQS ID	5-Feb	11-Feb	17-Feb	23-Feb	1-Mar	High	90th Percentile
				Thursday	Wednesday	Tuesday	Monday	Sunday		
<b>Toluene</b>	AB Tech.	Buncombe	37-021-0035	0.10	0.20	0.07	0.11	0.26	1.05	0.34
	Garinger	Mecklenburg	37-119-0041	0.20	0.28	0.17	0.25	0.23	0.44	0.42
	Hattie Ave.	Forsyth	37-067-0022	0.16	0.29	0.07	0.08	0.10	0.36	0.29
	Candor	Montgomery	37-123-0001	0.09	0.09	0.06	0.07	0.05	0.12	0.10
	Blackstone	Lee	37-105-0002	0.10	0.08	0.06	0.08	0.07	0.12	0.11
	Millbrook	Wake	37-183-0014	0.13	0.17	0.05	0.12	0.06	0.41	0.25
	Battleship	New Hanover	37-129-0010	0.11	0.08	0.04	0.19	0.03	0.20	0.19
<b>1,2,4-Trimethylbenzene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	ND	ND
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	ND	ND
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	ND	ND
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	ND	ND
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	ND	ND
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	ND	ND
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	ND	ND
<b>m/p-Xylene</b>	AB Tech.	Buncombe	37-021-0035	ND	0.04	ND	ND	0.02	0.12	0.06
	Garinger	Mecklenburg	37-119-0041	0.07	0.08	0.02	0.02	0.03	0.17	0.17
	Hattie Ave.	Forsyth	37-067-0022	0.04	0.05	ND	ND	ND	0.14	0.06
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.00	0.00
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.01	0.00
	Millbrook	Wake	37-183-0014	0.01	ND	ND	0.01	ND	0.17	0.10
	Battleship	New Hanover	37-129-0010	ND	ND	ND	0.09	ND	0.09	0.06
<b>o-Xylene</b>	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.00	0.00
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.02	0.02
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.02	0.00
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	ND	ND
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	ND	ND
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.02	0.00
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	ND	ND

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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	AB Tech.
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	Garinger
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	Hattie Ave.
	Candor	Montgomery	54	0.68	0.68	0.54	NO	Candor
	Blackstone	Lee	55	0.74	0.74	0.64	NO	Blackstone
	Millbrook	Wake	54	1.01	1.01	0.80	NO	Millbrook
	Battleship	New Hanover	NO	NO	NO	NO	NO	Battleship
Benzene	AB Tech.	Buncombe	60	0.25	0.26	0.25	0.29	AB Tech.
	Garinger	Mecklenburg	56	0.27	0.31	0.35	0.43	Garinger
	Hattie Ave.	Forsyth	56	0.26	0.31	0.33	0.34	Hattie Ave.
	Candor	Montgomery	58	0.19	0.21	0.19	0.16	Candor
	Blackstone	Lee	61	0.19	0.22	0.14	NO	Blackstone
	Millbrook	Wake	59	0.25	0.27	0.36	0.43	Millbrook
	Battleship	New Hanover	57	0.18	0.23	0.19	0.22	Battleship
Ethylbenzene	AB Tech.	Buncombe	60	0.01	0.02	0.11	0.12	AB Tech.
	Garinger	Mecklenburg	56	0.08	0.08	0.16	0.12	Garinger
	Hattie Ave.	Forsyth	56	0.05	0.05	0.20	0.13	Hattie Ave.
	Candor	Montgomery	58	0.00	0.00	0.06	0.04	Candor
	Blackstone	Lee	61	0.00	0.00	0.00	NO	Blackstone
	Millbrook	Wake	59	0.05	0.05	0.15	0.19	Millbrook
	Battleship	New Hanover	57	0.00	0.01	0.09	0.08	Battleship
Formaldehyde*	AB Tech.	Buncombe	NO	NO	NO	NO	NO	AB Tech.
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	Garinger
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	Hattie Ave.
	Candor	Montgomery	59	2.85	2.85	2.36	NO	Candor
	Blackstone	Lee	61	2.99	2.99	1.40	NO	Blackstone
	Millbrook	Wake	60	3.59	3.59	2.99	NO	Millbrook
	Battleship	New Hanover	NO	NO	NO	NO	NO	Battleship
n-Hexane	AB Tech.	Buncombe	60	0.13	0.13	0.15	0.14	AB Tech.
	Garinger	Mecklenburg	56	0.23	0.23	0.26	0.28	Garinger
	Hattie Ave.	Forsyth	55	0.18	0.20	0.30	0.25	Hattie Ave.
	Candor	Montgomery	57	0.06	0.07	0.06	0.06	Candor
	Blackstone	Lee	61	0.07	0.08	0.06	NO	Blackstone
	Millbrook	Wake	58	0.27	0.23	0.36	0.42	Millbrook
	Battleship	New Hanover	57	0.10	0.10	0.15	0.26	Battleship
Styrene	AB Tech.	Buncombe	60	0.00	0.00	0.13	0.12	AB Tech.
	Garinger	Mecklenburg	56	0.00	0.00	0.14	0.11	Garinger
	Hattie Ave.	Forsyth	56	0.00	0.00	0.12	0.10	Hattie Ave.
	Candor	Montgomery	58	0.00	0.00	0.11	0.09	Candor
	Blackstone	Lee	61	0.00	0.00	0.00	NO	Blackstone
	Millbrook	Wake	59	0.00	0.00	0.13	0.11	Millbrook
	Battleship	New Hanover	57	0.00	0.00	0.12	0.09	Battleship

**Notes:**

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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.

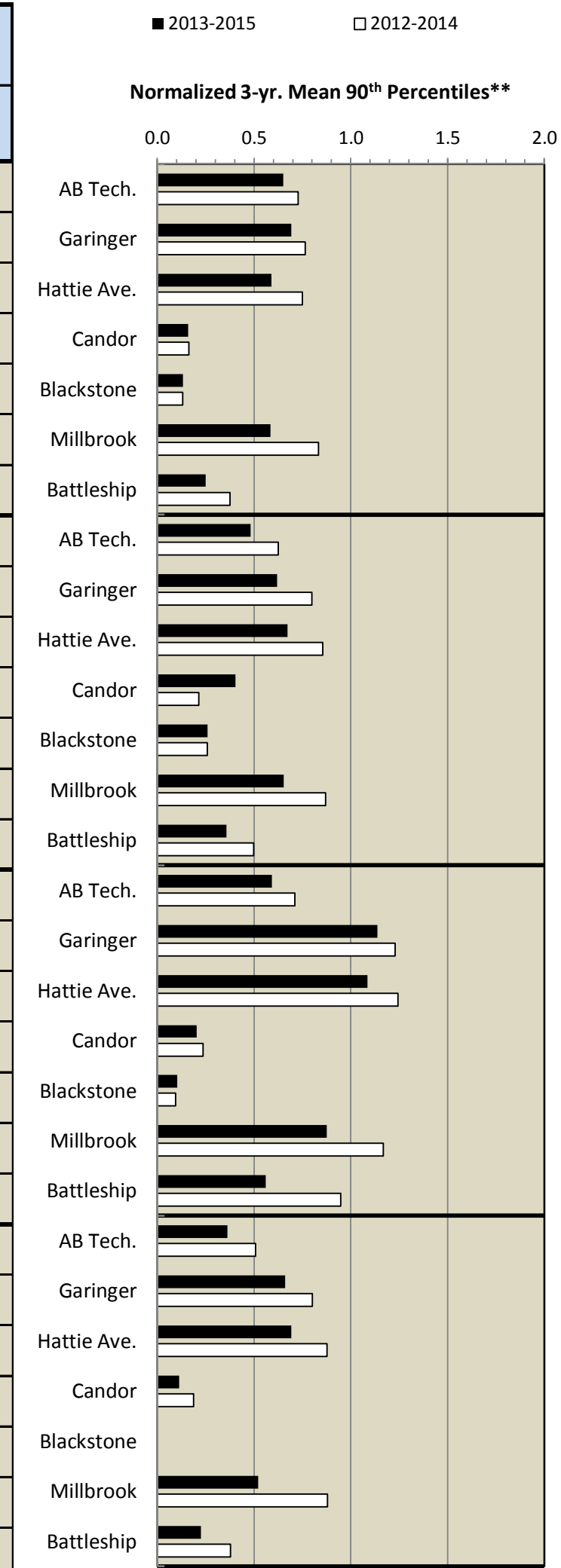
Blackstone site began operating in November 2013

\*\*The white bar shows the 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	0.53	0.52	0.71	0.74		
	Garinger	Mecklenburg	55	0.56	0.57	0.75	0.76		
	Hattie Ave.	Forsyth	54	0.36	0.37	0.87	0.79		
	Candor	Montgomery	55	0.12	0.13	0.19	0.13		
	Blackstone	Lee	58	0.12	0.13	0.11	NO		
	Millbrook	Wake	56	0.42	0.42	0.75	1.09		
	Battleship	New Hanover	54	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	56	0.08	0.08	0.31	0.21		
	Hattie Ave.	Forsyth	56	0.05	0.05	0.40	0.18		
	Candor	Montgomery	58	0.15	0.15	0.00	0.01		
	Blackstone	Lee	61	0.06	0.06	ND	NO		
	Millbrook	Wake	59	0.09	0.09	0.31	0.25		
	Battleship	New Hanover	57	0.05	0.05	0.16	0.16		
m/p-Xylene	AB Tech.	Buncombe	60	0.15	0.15	0.47	0.30		
	Garinger	Mecklenburg	56	0.28	0.31	0.88	0.39		
	Hattie Ave.	Forsyth	56	0.19	0.20	1.01	0.39		
	Candor	Montgomery	58	0.04	0.04	0.18	0.08		
	Blackstone	Lee	61	0.05	0.05	0.03	NO		
	Millbrook	Wake	59	0.19	0.19	0.76	0.57		
	Battleship	New Hanover	57	0.09	0.13	0.50	0.60		
o-Xylene	AB Tech.	Buncombe	60	0.03	0.03	0.13	0.11		
	Garinger	Mecklenburg	56	0.08	0.08	0.19	0.15		
	Hattie Ave.	Forsyth	56	0.05	0.05	0.27	0.15		
	Candor	Montgomery	58	0.00	0.00	0.06	0.04		
	Blackstone	Lee	61	0.00	0.00	0.00	NO		
	Millbrook	Wake	59	0.04	0.05	0.19	0.24		
	Battleship	New Hanover	57	0.01	0.02	0.10	0.09		



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\*\*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.