

# Air Pollution from Beech Hollow Power Plant

This is what the Beech Hollow power plant is allowed to put in the air, according the air permit from the state Dept. of Environmental Protection (DEP). This is on top of other pollution sources which already cause Washington County to be designated as having unacceptably high levels of air pollution (non-attainment for ozone and fine particulate matter).

<u>Pollutant</u>	<u>tons / year</u>	<u>lbs / day</u>	<u>Health Problems</u> caused or made worse <i>(not a complete list!)</i>	<u>Frequency of Testing</u>
<b>Nitrogen Oxides (NOx)</b>	976	5,348	Worsens asthma; decreases lung function; respiratory disease; helps form ozone, which contributes to asthma, heart attacks, low birth weight and premature births	Continuous
<b>Carbon Monoxide (CO)</b>	1,826	10,006	Injuries to heart, brain and other organ and tissues	Continuous
<b>Sulphur Dioxide (SO<sub>2</sub>)</b>	3,154	17,284	Lung irritation; worsens asthma; destabilizes heart, low birth rate; sudden infant death syndrome	Continuous
<b>Particulate Matter 10 microns or smaller (PM<sub>10</sub>)</b>	334	1,832	Increased attacks in asthmatic children; increased deaths in elderly; heart disease; stroke; low birth weight; premature births; airway obstruction; sudden infant death syndrome	Once/Year
<b>Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>)</b>	36	199	Reduced lung function	Once/Year
<b>Hydrofluoric Acid (HF)</b>	29	159	Kidney and nervous system damage; damage to bones; learning disabilities	Once/Year
<b>Hydrochloric Acid (HCl)</b>	33	182	Lung irritation, worsens asthma	Once/Year
<b>Volatile Organic Compounds (VOCs)</b>	73	399	Suspected to cause cancer and to be toxic to reproductive system	Once/Year
<b>Arsenic</b>	no limit	no limit	Cancer; may damage fetus; lung and skin cancer, tumors of bladder, kidney, liver, lung, damager to nerve, stomach intestines	Once/Year
<b>Beryllium</b>	no limit	no limit	lung scarring, breathing difficulties, heart strain, and skin irritation, cancer (lung & bone)	Once/Year
<b>Lead</b>	0.06	0.33	Reproductive problems; Memory & behaviour problems, Nerve damage, kidney damage	Once/Year
<b>Mercury</b>	0.00139	0.00759	Nerve toxin; brain damage, mental retardation; birth defects; blood pressure heart rate	Continuous
<b>Cadmium</b>	no limit	no limit	Cancer (kidney); reproductive problems; kidney & liver damage	Once/Year
<b>Chromium VI</b>	no limit	no limit	Cancer (lung & throat); Reproductive problems; Asthma	Once/Year
<b>Nickel</b>	no limit	no limit	Possible cancer (lung); Asthma	Once/Year
<b>Ammonia</b>	(limit of 10ppm)		Breathing problems; suspected neurotoxin and reproductive toxin	Once/Year
<b>Dioxins</b>	no limit	no limit	Cancer; reproductive problems; birth defects; learning disabilities	Never
<b>TOTALS</b>	<b>6,462</b>	<b>35,410</b>		

**Nearly 6,500 Tons of pollution each year - almost 18 Tons per day**