

CALPUFF Results for Indiana's EGU sources - Number of Days over 0.5 deciview impacts at surrounding Class 1 Areas

Nox and SO2 modeling

	AEP-Tanners Creek			PSI-Gibson			IPALCO-Harding St.			Hoosier Energy-Ratts			AES/IPALCO-Petersburg			Hoosier Energy-Merom			PSI-Cayuga			PSI-Wabash River			Citizen's Thermal			
Class 1 Areas	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	
Boundary Waters - MN		0			9			3			2			0			2			17			12			0	0	0
Brigantine Wild. - NJ		0			9			1			1			0			1			12			5			0	0	0
Dolly Sods - WV		8			14			1			0			0			5			19			9			0	0	0
Great Gulf Wild - NH		0			7			0			3			0			2			9			5			0	0	0
Great Smokey Mount - TN		7			27			2			4			0			9			23			15			0	0	0
Hercules - Glades Wild. - MO		1			17			3			7			3			5			7			6			0	0	0
Isle Royale - MI		0			11			3			5			0			2			17			13			0	0	0
James River Face - VA		5			12			0			0			0			2			20			11			0	0	0
Linville Gorge - NC		3			22			0			1			0			5			22			14			0	0	0
Lye Brook Wild. - VT		2			11			1			5			0			4			11			9			0	0	0
Mammoth Caves - KY		18			85			8			42			7			33			53			34			0	0	0
Mingo Wild. - MO		3			32			7			15			6			13			33			22			0	0	0
Seney Wild. - MI		2			15			7			5			0			10			28			19			0	0	0
Shenandoah N.P. - VA		14			15			2			1			0			2			25			13			0	0	0
Sipsey Wild. - AL		1			33			0			4			0			5			14			7			0	0	0
Voyageurs N.P. - MN		0			2			1			1			0			2			7			5			0	0	0
Days per year > 0.5	0	64	0	0	321	0	0	39	0	0	96	0	0	16	0	0	102	0	0	317	0	0	199	0	0	0	0	0
Total Days ('02-'04) > 0.5		64			321			39			96			16			102			317			199			0		

Class 1 Areas	RichmondP&L			Logansport Munciple			Crawfordsville E.L.&P			NIPSCO-Schahfer			NIPSCO-Mitchell			NIPSCO-Michigan City			NIPSCO-Bailley			SIGECO-ABBrown			SIGECO-FBCulley		
	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
Boundary Waters - MN		3		0	0	0	0	0	0																		
Brigantine Wild. - NJ		1		0	0	0	0	0	0																		
Dolly Sods - WV		5		0	0	0	0	0	0																		
Great Gulf Wild - NH		1		0	0	0	0	0	0																		
Great Smokey Mount - TN		1		0	0	0	0	0	0																		
Hercules - Glades Wild. - MO		3		0	0	0	0	0	0																		
Isle Royale - MI		4		0	0	0	0	0	0																		
James River Face - VA		3		0	0	0	0	0	0																		
Linville Gorge - NC		2		0	0	0	0	0	0																		
Lye Brook Wild. - VT		1		0	0	0	0	0	0																		
Mammoth Caves - KY		13		0	0	0	0	0	0																		
Mingo Wild. - MO		6		0	0	0	0	0	0																		
Seney Wild. - MI		4		0	0	0	0	0	0																		
Shenandoah N.P. - VA		9		0	0	0	0	0	0																		
Sipsey Wild. - AL		0		0	0	0	0	0	0																		
Voyageurs N.P. - MN		2		0	0	0	0	0	0																		
Days per year > 0.5 deciviews	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Days ('02-'04) > 0.5 deciviews		58			0			0			0			0			0			0			0			0	

Class 1 Areas	ALCOA			State Line Energy		
	2002	2003	2004	2002	2003	2004
Boundary Waters - MN		3				
Brigantine Wild. - NJ		9				
Dolly Sods - WV		12				
Great Gulf Wild - NH		4				
Great Smokey Mount - TN		30				
Hercules - Glades Wild. - MO		9				
Isle Royale - MI		7				
James River Face - VA		7				
Linville Gorge - NC		17				
Lye Brook Wild. - VT		9				
Mammoth Caves - KY		104				
Mingo Wild. - MO		27				
Seney Wild. - MI		10				
Shenandoah N.P. - VA		13				
Sipsey Wild. - AL		26				
Voyageurs N.P. - MN		1				
Days per year > 0.5 deciviews	0	288	0	0	0	0
Total Days ('02-'04) > 0.5 deciviews		288			0	

- Receptors are Class 1 areas only

- States compare 98th percentile of CALPUFF results against contribution threshold of 0.5 deciviews.

- Sources that contributes greater than 0.5 deciviews more than 7 days per year at any Class 1 area would likely contribute to visibility impairment.

CALPUFF Results for Indiana's EGU sources - Number of Days over 0.5 deciview impacts at surrounding Class 1 Areas

PM10 Modeling

	AEP-Tanners Creek			PSI-Gibson			IPALCO-Harding St.			Hoosier Energy-Ratts			AES/IPALCO-Petersburg			Hoosier Energy-Merom			PSI-Cayuga			PSI-Wabash River			Citizen's Thermal		
Class 1 Areas	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
Boundary Waters - MN		0									0						0			0					0		
Brigantine Wild. - NJ		0									0						0								0		
Dolly Sods - WV		0									0						0								0		
Great Gulf Wild - NH		0									0						0								0		
Great Smokey Mount - TN		0									0						0								0		
Hercules - Glades Wild. - MO		0									0						0								0		
Isle Royale - MI		0									0						0								0		
James River Face - VA		0									0						0								0		
Linville Gorge - NC		0									0						0								0		
Lye Brook Wild. - VT		0									0						0								0		
Mammoth Caves - KY		0									0						0								0		
Mingo Wild. - MO		0									0						0								0		
Seney Wild. - MI		0									0						0								0		
Shenandoah N.P. - VA		0									0						0								0		
Sipsey Wild. - AL		0									0						0								0		
Voyageurs N.P. - MN		0									0						0								0		
Days per year > 0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Days ('02-'04) > 0.5	0			0			0			0			0			0			0			0			0		

	RichmondP&L			Logansport Municipice			Crawfordsville E.L.&P			NIPSCO-Schahfer			NIPSCO-Mitchell			NIPSCO-Michigan City			NIPSCO-Bailley			SIGECO-ABBrown			SIGECO-FBCulley					
Class 1 Areas	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004			
Boundary Waters - MN																														
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Voyageurs N.P. - MN																														
Days per year > 0.5 deciviews	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total Days ('02-'04) > 0.5 deciviews	0			0			0			0			0			0			0			0			0			0		

Class 1 Areas	ALCOA			State Line Energy		
	2002	2003	2004	2002	2003	2004
Boundary Waters - MN		0				
Brigantine Wild. - NJ		0				
Dolly Sods - WV		0				
Great Gulf Wild - NH		0				
Great Smokey Mount - TN		0				
Hercules - Glades Wild. - MO		0				
Isle Royale - MI		0				
James River Face - VA		0				
Linville Gorge - NC		0				
Lye Brook Wild. - VT		0				
Mammoth Caves - KY		9				
Mingo Wild. - MO		0				
Seney Wild. - MI		0				
Shenandoah N.P. - VA		0				
Sipsey Wild. - AL		0				
Voyageurs N.P. - MN		0				
Days per year > 0.5 deciviews	0	9	0	0	0	0
Total Days ('02-'04) > 0.5 deciviews	9			0		

- Receptors are Class 1 areas only
- States compare 98th percentile of CALPUFF results against contribution threshold of 0.5 deciviews.
- Sources that contributes greater than 0.5 deciviews more than 7 days per year at any Class 1 area would likely contribute to visibility impairment.

CALPUFF Results for Indiana's EGU sources - Number of Days over 0.5 deciview impacts at surrounding Class 1 Areas

PM2.5 Modeling	AEP-Tanners Creek			PSI-Gibson			IPALCO-Harding St.			Hoosier Energy-Ratts			AES/IPALCO-Petersburg			Hoosier Energy-Merom			PSI-Cayuga			PSI-Wabash River			Citizen's Thermal		
	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
Class 1 Areas																											
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Sipsey Wild. - AL																											
Voyageurs N.P. - MN																											
Days per year > 0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Days ('02-'04) > 0.5	0			0			0			0			0			0			0			0			0		

Class 1 Areas	RichmondP&L			Logansport Municiple			Crawfordsville E.L.&P			NIPSCO-Schahfer			NIPSCO-Mitchell			NIPSCO-Michigan City			NIPSCO-Bailley			SIGECO-ABBrown			SIGECO-FBCulley		
	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004	2002	2003	2004
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Voyageurs N.P. - MN																											
Days per year > 0.5 deciviews	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Days ('02-'04) > 0.5 deciviews	0			0			0			0			0			0			0			0			0		

Class 1 Areas	ALCOA			State Line Energy		
	2002	2003	2004	2002	2003	2004
Boundary Waters - MN		0				
Brigantine Wild. - NJ		0				
Dolly Sods - WV		0				
Great Gulf Wild - NH		0				
Great Smokey Mount - TN		0				
Hercules - Glades Wild. - MO		0				
Isle Royale - MI		0				
James River Face - VA		0				
Linville Gorge - NC		0				
Lye Brook Wild. - VT		0				
Seney Wild. - MI		0				
Shenandoah N.P. - VA		0				
Sipsey Wild. - AL		0				
Voyageurs N.P. - MN		0				
Days per year > 0.5 deciviews	0	0	0	0	0	0
Total Days ('02-'04) > 0.5 deciviews	0			0		

- Receptors are Class 1 areas only
- States compare 98th percentile of CALPUFF results against contribution threshold of 0.5 deciviews.
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Emissions for EGU sources in Indiana (taken from surveys)

[illegible][illegible]