

AERMOD Model Options

Model Options

Pathway	Keyword	Description	Value
CO	TITLEONE	Project title 1	Lincoln40
CO	TITLETWO	Project title 2	
CO	MODELOPT	Model options	DFAULT,CONC
CO	AVERTIME	Averaging times	1,ANNUAL
CO	URBANOPT	Urban options	
CO	POLLUTID	Pollutant ID	PM25 H1H
CO	HALFLIFE	Half life	
CO	DCAYCOEF	Decay coefficient	
CO	FLAGPOLE	Flagpole receptor heights	1.8
CO	RUNORNOT	Run or Not	RUN
CO	EVENTFIL	Event file	F
CO	SAVEFILE	Save file	F
CO	INITFILE	Initialization file	
CO	MULTYEAR	Multiple year option	N/A
CO	DEBUGOPT	Debug options	N/A
CO	ERRORFIL	Error file	F
SO	ELEVUNIT	Elevation units	METERS
SO	EMISUNIT	Emission units	N/A
RE	ELEVUNIT	Elevation units	METERS
ME	SURFFILE	Surface met file	I:\PROJECTS\ACTIVE\DAVIS\LINCOLN40 EIR\TECHNICAL REPORTS\AQ & GHG\FULL HRA\MET DATA\INT 10-14 N1MD.SFC
ME	PROFFILE	Profile met file	I:\PROJECTS\ACTIVE\DAVIS\LINCOLN40 EIR\TECHNICAL REPORTS\AQ & GHG\FULL HRA\MET DATA\INT 10-14 N1MD.PFL
ME	SURFDATA	Surf met data info.	93225 2010
ME	UAIRDATA	U-Air met data info.	23230 2010
ME	SITEDATA	On-site met data info.	
ME	PROFBASE	Elev. above MSL	0
ME	STARTEND	Start-end met dates	
ME	WDROTATE	Wind dir. rot. adjust.	
ME	WINDCATS	Wind speed cat. max.	
ME	SCIMBYHR	SCIM sample params	
EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU | DAYTABLE | Print summary opt.

Source Parameter Tables

All Sources

Source ID / Pollutant ID	Source Type	Description	UTM		Elev.	Emiss. Rate	Emiss. Units	Release Height
			East (m)	North (m)	(m)			(m)
0GF0R0WY	VOLUME	CNSTR SRC	610120.7	4266852.3	0	0.00135	(g/s)	5
0GF0R0WZ	VOLUME	CNSTR SRC	610184.3	4266852.3	0	0.00135	(g/s)	5
0GF0R0X0	VOLUME	CNSTR SRC	610184.3	4266915.9	0	0.00135	(g/s)	5
0GF0R0X1	VOLUME	CNSTR SRC	610247.9	4266915.9	0	0.00135	(g/s)	5
0GF0R0X2	VOLUME	CNSTR SRC	610375.2	4266979.6	0	0.00135	(g/s)	5

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
0GF0R0WY	CNSTR SRC	610120.7	4266852.3	0	0.00135	5	29.59	1
0GF0R0WZ	CNSTR SRC	610184.3	4266852.3	0	0.00135	5	29.59	1
0GF0R0X0	CNSTR SRC	610184.3	4266915.9	0	0.00135	5	29.59	1
0GF0R0X1	CNSTR SRC	610247.9	4266915.9	0	0.00135	5	29.59	1
0GF0R0X2	CNSTR SRC	610375.2	4266979.6	0	0.00135	5	29.59	1

BREEZE AERMOD Model Results

Max. Annual (5 YEARS) Results of Pollutant: PM25 (ug/m**3)

Group ID	High	Avg. Conc.	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
			East (m)	North (m)					
ALL	1ST	0.19549	610203.70	4266980.80	0.00	0.00	1.80	DC	
	2ND	0.19441	610193.70	4266980.80	0.00	0.00	1.80	DC	
	3RD	0.19360	610213.70	4266980.80	0.00	0.00	1.80	DC	
	4TH	0.18953	610223.70	4266980.80	0.00	0.00	1.80	DC	
	5TH	0.18940	610183.70	4266980.80	0.00	0.00	1.80	DC	
	6TH	0.18006	610173.70	4266980.80	0.00	0.00	1.80	DC	
	7TH	0.17394	610203.70	4266990.80	0.00	0.00	1.80	DC	
	8TH	0.17266	610213.70	4266990.80	0.00	0.00	1.80	DC	
	9TH	0.17262	610193.70	4266990.80	0.00	0.00	1.80	DC	
	10TH	0.16926	610223.70	4266990.80	0.00	0.00	1.80	DC	

Highest Results of Pollutant: PM25

Avg. Per.	Grp ID	High	Type	Val	Units	Date	UTM		Elev. (m)	Hill Ht. (m)	Flag Ht. (m)	Rec. Type	Grid ID
						YYMMDDHH	East (m)	North (m)					
1-HR	ALL	1ST	Avg. Conc.	7.16796	ug/m**3	13122308	610172.60	4266778.70	0.00	0.00	4.80	DC	

Summary of Total Messages

#	Message Type
0	Fatal Error Message(s)
2	Warning Message(s)
9526	Informational Message(s)
43824	Hours Were Processed
7881	Calm Hours Identified
1645	Missing Hours Identified (3.75 Percent)

Error & Warning Messages

Msg. Type	Pathway	Ref. #	Description
WARNING	CO	W276	Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H

WARNING	CO	W363	Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H
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www.breeze-software.com

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CO	URBANOPT	Urban options	
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CO	HALFLIFE	Half life	
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EV	DAYTABLE	Print summary opt.	N/A
OU	EVENTOUT	Output info. level	N/A

OU | DAYTABLE | Print summary opt.

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0GF0R0WY	VOLUME	CNSTR SRC	610120.7	4266852.3	0	0.000051	(g/s)	5
0GF0R0WZ	VOLUME	CNSTR SRC	610184.3	4266852.3	0	0.000051	(g/s)	5
0GF0R0X0	VOLUME	CNSTR SRC	610184.3	4266915.9	0	0.000051	(g/s)	5
0GF0R0X1	VOLUME	CNSTR SRC	610247.9	4266915.9	0	0.000051	(g/s)	5
0GF0R0X2	VOLUME	CNSTR SRC	610375.2	4266979.6	0	0.000051	(g/s)	5

Volume Sources

Source ID / Pollutant ID	Description	UTM		Elev.	Emiss. Rate	Release Height	Init. Lat. Dim.	Init. Vert. Dim.
		East (m)	North (m)	(m)	(g/s)	(m)	(m)	(m)
0GF0R0WY	CNSTR SRC	610120.7	4266852.3	0	0.000051	5	29.59	1
0GF0R0WZ	CNSTR SRC	610184.3	4266852.3	0	0.000051	5	29.59	1
0GF0R0X0	CNSTR SRC	610184.3	4266915.9	0	0.000051	5	29.59	1
0GF0R0X1	CNSTR SRC	610247.9	4266915.9	0	0.000051	5	29.59	1
0GF0R0X2	CNSTR SRC	610375.2	4266979.6	0	0.000051	5	29.59	1

*HARP - HRACalc v16088 2/2/2017 10:57:10 AM - Acute Risk

INDEX	GRP1	GRP2	POLID	POLABBREV
	1 CNSTRCT	Diesel PM	9901	DieselExhPM

CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY
	6.10718 NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GILV	REPRO/DEVEL	RESP	SKIN	EYE
	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v16088 2/2/2017 10:57:10 AM - Cancer Risk

INDEX	GRP1	GRP2	POLID	POLABBREV
	1 CNSTRCT	Diesel PM		9901 DieselExhPM

CONC	RISK_SUM	SCENARIO	DETAILS
0.19549	6.16E-05	2YrCancerDerived	*

INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK
6.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00

FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER
0.00E+00	0.00E+00	0.00E+00	INHALATION

2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v16088 2/2/2017 10:57:10 AM - Chronic Risk

INDEX	GRP1	GRP2	POLID	POLABBREV		
	1 CNSTRCT	Diesel PM		9901 DieselExhPM		
CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	
0.19549	NonCancerChroni		0.00E+00	0.00E+00	0.00E+00	0.00E+00
GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	
0.00E+00	0.00E+00		0.04	0.00E+00	0.00E+00	0.00E+00
ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC	
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00 *	1.95E-01	
SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	
2ND_DRIVE	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC		
		0.00E+00	0.00E+00	0.00E+00		

POL	1	POLABBREV 9901 DieselExhPM	2	InhalationCancerURF 0.0003	3	InhalationCancerSlopeFactor	4	OralCancerSlopeFactor 1.1	5
AcuteREL	6	InhalationChronicREL	7	OralChronicREL 5	8	IsMultipathway FALSE	9	AcuteCV_ FALSE	10
AcuteCNS_ FALSE	11	AcuteIMMUN_ FALSE	12	AcuteKIDNEY_ FALSE	13	AcuteGILV_ FALSE	14	AcuteREPRO_DEVEL_ FALSE	15
AcuteRESP_ FALSE	16	AcuteSKIN_ FALSE	17	AcuteEYE_ FALSE	18	AcuteBONE_TEETH_ FALSE	19	AcuteENDO_ FALSE	20
AcuteBLOOD_ FALSE	21	AcuteODOR_ FALSE	22	AcuteGENERAL_ FALSE	23	InhalationChronicCV_ FALSE	24	InhalationChronicCNS_ FALSE	25
InhalationChronicIMMUN_ FALSE	26	InhalationChronicKIDNE_ FALSE	27	InhalationChronicGILV_ FALSE	28	InhalationChronicREPRO_DEVEL_ FALSE	29	InhalationChronicRESP_ TRUE	30
InhalationChronicSKIN_ FALSE	31	InhalationChronicEYE_ FALSE	32	InhalationChronicBONE_ FALSE	33	InhalationChronicENDO_ FALSE	34	InhalationChronicBLOOD_ FALSE	35
InhalationChronicODOR_ FALSE	36	InhalationChronicGENER FALSE	37	OralChronicCV_ FALSE	38	OralChronicCNS_ FALSE	39	OralChronicIMMUN_ FALSE	40
OralChronicKIDNEY_ FALSE	41	OralChronicGILV_ FALSE	42	OralChronicREPRO_DEV FALSE	43	OralChronicRESP_ FALSE	44	OralChronicSKIN_ FALSE	45
OralChronicEYE_ FALSE	46	OralChronicBONE_TEETH FALSE	47	OralChronicENDO_ FALSE	48	OralChronicBLOOD_ FALSE	49	OralChronicODOR_ FALSE	50
OralChronicGENERAL_ FALSE	51	PathwayInhalation TRUE	52	PathwayDrinking FALSE	53	PathwayFood FALSE	54	PathwayCrop FALSE	55
PathwayExposed FALSE	56	PathwayLeafy FALSE	57	PathwayProtected FALSE	58	PathwayRoot FALSE	59	PathwayDairy FALSE	60
PathwayMeatEggs FALSE	61	PathwaySoilIngestion FALSE	62	PathwayFish FALSE	63	PathwayDermal FALSE	64	PathwayMothersMilk FALSE	65
SoilUptakeFactorLeafy	66	SoilUptakeFactorExpose	67	SoilUptakeFactorProtect	68	SoilUptakeFactorRoot	69	FoodTcoMilk	70

FoodTcoEgg	71 FoodTcoChicken	72 FoodTcoBeef	73 FoodTcoPig	74 HalfLifeInSoil	75
GRAF	76 FishBCF	77 MolWtCorrection	78 DermalAbsorptionFactor 1	79 InhalationChronicREL_8HR	80
InhalationChronicCV_8HR FALSE	81 InhalationChronicCNS_8 FALSE	82 InhalationChronicIMMU FALSE	83 InhalationChronicKIDNEY_8HR FALSE	84 InhalationChronicGILV_8HR FALSE	85
InhalationChronicREPRO_DEVEL_8HR FALSE	86 InhalationChronicRESP_8 FALSE	87 InhalationChronicSKIN_8 FALSE	88 InhalationChronicEYE_8HR FALSE	89 InhalationChronicBONE_TEETH_8HR FALSE	90
InhalationChronicENDO_8HR FALSE	91 InhalationChronicBLOOD_8HR FALSE	92 InhalationChronicODOR_8HR FALSE	93 InhalationChronicGENERAL_8HR FALSE	94 Tco_InhMM	95
Tco_OralMM	96 RChem_Group_HV	97			

1	CNSTRCT	Diesel PM	9901 DieselExhPM	0.19549	6.10718	0	0	0
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*HARP - HRACalc v16088 2/2/2017 1:30:15 PM - Cancer Risk

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC
	1 CNSTRCT	Diesel PM	9901	DieselExhPM	0.00739

RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK
2.33E-06	2YrCancerDerived	*	2.33E-06	0.00E+00	0.00E+00

MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC
0.00E+00	0.00E+00	0.00E+00	INHALATION		0.00E+00

FISH_CONC	WATER_CONC
0.00E+00	0.00E+00

1	CNSTRCT	Diesel PM	9901 DieselExhP	0.00739	0.23072	0	0	0
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*HARP - HRACalc v16088 2/2/2017 1:30:15 PM - Acute Risk

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC
	1 CNSTRCT	Diesel PM	9901	DieselExhPM	0.23072

SCENARIO	CV	CNS	IMMUN	KIDNEY
NonCancerAc	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v16088 2/2/2017 1:30:15 PM - Chronic Risk

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC
	1 CNSTRCT	Diesel PM		9901 DieselExhPM	0.00739
SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV
NonCancerChronicDerived		0.00E+00	0.00E+00	0.00E+00	0.00E+00
REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	
	0.00E+00	1.48E-03	0.00E+00	0.00E+00	0.00E+00
ENDO	BLOOD	ODOR	GENERAL	DETAILS	INH_CONC
	0.00E+00	0.00E+00	0.00E+00	0.00E+00 *	7.39E-03
SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	
	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	
	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	
	0.00E+00 INHALATION			0.00E+00	
FISH_CONC	WATER_CONC				
	0.00E+00	0.00E+00			

	1	2	3	4	5	
POL	POLABBRE	InhalationC	InhalationC	OralCancerSlopeFactor		
	9901 DieselExhP	0.0003	1.1			
	6	7	8	9	10	
AcuteREL	InhalationC	OralChronic	IsMultipath	AcuteCV_		
	5		FALSE	FALSE		
	11	12	13	14	15	
AcuteCNS_	AcuteIMMI	AcuteKIDN	AcuteGILV_	AcuteREPRO_DEVEL_		
FALSE	FALSE	FALSE	FALSE	FALSE		
	16	17	18	19	20	
AcuteRESP_	AcuteSKIN_	AcuteEYE_	AcuteBONE	AcuteENDO_		
FALSE	FALSE	FALSE	FALSE	FALSE		
	21	22	23	24	25	
AcuteBLOC	AcuteODOI	AcuteGENE	InhalationC	InhalationChronicCNS_		
FALSE	FALSE	FALSE	FALSE	FALSE		
	26	27	28	29	30	
InhalationC	InhalationC	InhalationC	InhalationC	InhalationChronicRESP_		
FALSE	FALSE	FALSE	FALSE	TRUE		
	31	32	33	34	35	
InhalationC	InhalationC	InhalationC	InhalationC	InhalationChronicBLOOD_		
FALSE	FALSE	FALSE	FALSE	FALSE		
	36	37	38	39	40	
InhalationC	InhalationC	OralChronic	OralChronic	OralChronicIMMUN_		
FALSE	FALSE	FALSE	FALSE	FALSE		
	41	42	43	44	45	46
OralChronic	OralChronic	OralChronic	OralChronic	OralChronic	OralChronicEYE_	
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
	47	48	49	50	51	
OralChronic	OralChronic	OralChronic	OralChronic	OralChronicGENERAL_		

FALSE	FALSE	FALSE	FALSE	FALSE	
52	53	54	55	56	
PathwayInl	PathwayDr	PathwayFo	PathwayCr	PathwayExposed	
TRUE	FALSE	FALSE	FALSE	FALSE	
57	58	59	60	61	
PathwayLe	PathwayPr	PathwayRo	PathwayDa	PathwayMeatEggs	
FALSE	FALSE	FALSE	FALSE	FALSE	
62	63	64	65	66	
PathwaySo	PathwayFis	PathwayDe	PathwayMi	SoilUptakeFactorLeafy	
FALSE	FALSE	FALSE	FALSE		
67	68	69	70	71	
SoilUptake	SoilUptake	SoilUptake	FoodTcoMi	FoodTcoEgg	
72	73	74	75	76	
FoodTcoCh	FoodTcoBe	FoodTcoPig	HalfLifeInSt	GRAF	
77	78	79	80	81	
FishBCF	MolWtCorr	DermalAbs	InhalationC	InhalationChronicCV_8HR	
	1			FALSE	
82	83	84	85	86	
InhalationC	InhalationC	InhalationC	InhalationC	InhalationChronicREPRO_DEVEL_8HR	
FALSE	FALSE	FALSE	FALSE	FALSE	
87	88	89	90	91	
InhalationC	InhalationC	InhalationC	InhalationC	InhalationChronicENDO_8HR	
FALSE	FALSE	FALSE	FALSE	FALSE	
92	93	94	95	96	97
InhalationC	InhalationC	InhalationC	Tco_InhMM	Tco_OralM	RChem_Group_HV
FALSE	FALSE	FALSE			