

TABLE 4.8.1.1-1.—Summary of Noise Measurements (dBA) at and in the Vicinity of Pantex Plant

LOCATION	MONTH/ DAY	TIME	L _{max}	L _{min}	L _{eq}	L ₉₀	L ₅₀	L ₁₀	TOTAL BAND HERTZ (Hz)	COMMENTS
A	9/9	0945	50	34	42					
		1005	49	47	48					
		1340	45	42	43					
B	9/9	1307							4,000 Hz, 47 dB	Peak at 4,000 Hz, insects
	9/15	0840	49	41	44					
	6/20	1115	81	34	58	45	50	56	Birds and Insects	Jet aircraft take-off
C	9/9	1113	68	38	56					2-engine jet aircraft
		1118	62	49	57					2-engine jet aircraft
		1121	91	50	81					4-engine military jet
		1135	61	36	50					
		1141	37	30	32					
		1255	52	34	35					
		0740	83	50	70	52	63	76		71 autos, 1 train
		0813	79	58	58	48	50	57	4,000 Hz, 49 dB	
		0915	77	44	54					
D	9/9	1215	49	30	38					
		1235	56	35	45					Includes train whistle
E	9/12	0934	81	42	58					
		0944	85	43	63					
	9/13	1026								
	9/15	1000	49	40	43				4,000 Hz, 42 dB	
	4/11	1812	81	34	58	42	47	53		Gas-engine irrigation pumps
		1256	78	34	54	40	47	53		Irrigation pumps, aircraft, truck
	4/12									
F	9/15	1752	65	42	49	44	45	51		Military jet (trainer) 1/4 mile
	12/3	1926	83	32	58	36	41	52		Three aircraft, 1 car, 1 pickup

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LOCATION	MONTH/ DAY	TIME	L _{max}	L _{min}	L _{eq}	L ₉₀	L ₅₀	L ₁₀	TOTAL BAND HERTZ (Hz)	COMMENTS
F (cont.)	4/12	1356	76	38	51	42	45	51		Irrigation pumps, tractor plowing
	6/20	1410	79	29	56	38	45	53		3 autos, 1 truck, 1 aircraft
	6/21	1150	80	34	53	42	48	56		This and the following two
	6/21	1220	75	32	51	40	45	51		measurements were made during
	6/21	1250	81	31	53	39	45	50		blast noise measurements.
G	9/12	1112	50	35	41					Microphone height 12 inches
		1127	54	35	39					rather than normal 60 inches
I	6/20	1314	82	28	55	41	48	54		
	9/13	0745	77	45	60					23 Autos, 1 truck, 1 train
		0823	73	45	55					One plane, IBP ¹ roar, 3 autos
		0845	68	42	52					One truck
	4/11	1610	75	38	61	47	56	66		Aircraft, autos, truck
	6/20	1215	78	34	55	45	50	57		180 autos and light trucks, 8 autos, motorcycle, aircraft
										One 30-minute measurement, includes visit by security
J	12/3	1035	65	29	45	33	35	41		
K										Two 30-minute measurements
	12/3	0650	72	44	52	46	48	55		12 cars 1st run, 17 cars 2nd
		0720	73	44	55	47	50	57		Cranes and other construction sounds
	4/11	0855	68	43	51	46	49	53		Same except wind N, not W
L	4/12	1450	60	39	40	42	44	47		
										Two 30-minute measurements
	12/2	0555	79	25	57	27	30	51		Eight cars 1st run, 52 cars 2nd
		0625	83	28	65	35	52	68		Seven Autos, 4 aircraft
M	4/12	1205	67	27	44	29	37	46		Three autos, 2 trains, 4 aircraft
	6/20	0915	84	44	57	50	53	55	Birds and Insects	
	12/2	1725	59	34	40	33	37	44		Two 30-minute measurements
		1755	70	34	48	34	36	43		Aircraft, trains, migrating birds
	4/11	1812	69	32	50	40	47	53		Commuter traffic on FM 2373

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M (cont.)	6/20	1018	61	42	52	49	52	55	Birds and Insects	Five aircraft, cars and truck
O	4/11 6/21	1150	66	32	51	42	48	55		Eleven heavy trucks, 120 cars, 2 jets
		0614	64	44	54	51	54	57		Maximum per min.: 10 autos, 7 trucks
		0650	71	48	57	52	55	59		Maximum per min.: 15 autos, 7 trucks
		0720	72	42	53	57	51	56		Maximum per min.: 18 autos, 5 trucks
		0750	70	40	51	44	47	54		Maximum per min.: 9 autos, 0 trucks
P ²	9/16	0905	49	45	46				63 Hz, 53 dB	Pure tone and harmonics audible
R	4/12 6/20	0638	75	41	62	53	61	64		19 cars and light trucks/min.
		0708	74	43	61	55	61	64		16.5 vehicles/min., 2 trucks, 2 trains
		0738	71	42	60	49	59	64		Continued commuter traffic
		0820	74	41	54	45	49	58		Lighter traffic, 3 trains
		1524	72	36	53	43	49	57		Maximum 5 vehicles per minute
		1554	80	39	57	46	53	59		Maximum 8 vehicles per minute
		1624	73	44	58	51	57	61		Maximum 24 vehicles per minute
T	9/16	0815	98							Distance from source to
		—	97							microphone approximately 1,200 feet
		—	94							The first 5 measurements
		—	102							are peak C-weighted
		0832	103							
		0834	70							
W ³	9/15	1045	70	37	54				125 Hz 47 dB 250 Hz, 36 dB Minimum levels	Pure tone and harmonics are audible

¹IBP - Iowa Beef Processors plant²P - Persing Drive, on road adjacent to industrial area.³W - Washington Drive, on road adjacent to industrial area.

Source: Pantex 1996:11.2.1.2