

Note: This is a reference cited in AP 42, *Compilation of Air Pollutant Emission Factors, Volume I Stationary Point and Area Sources*. AP42 is located on the EPA web site at www.epa.gov/ttn/chief/ap42/

The file name refers to the reference number, the AP42 chapter and section. The file name "ref02_c01s02.pdf" would mean the reference is from AP42 chapter 1 section 2. The reference may be from a previous version of the section and no longer cited. The primary source should always be checked.

AP42 Section:	9.7
Background Chapter	4
Reference:	6
Title:	County Line Gin--PM10 & Total Particulate Testing--Motes, Suction, Lint Cleaner, Overflow, #1 Drying, Gin Stand Trash, Battery Condenser, and #2 Drying Cyclones, BTC Environmental, Inc., Ventura, CA, December 8-11, 1991.

Source category: Cotton COTTON6 Date: 11/11/94
 Plant name : County Line Gin Location: Hanford, CA
 Test date : Dec 8-11, 1991 Ref. No.:
 Process : Basis for process rate : production

Source	Type of control	Pollutant	Run No.	Emission rate, lb/hr	Number of cyclones	Process rate, bales/hr	Emission factor		
							kg/bale	lb/bale	
Motes cyclone	4-44" 1D-3D cyclones	filt. PM	1	2.97	4	34.70	0.155	0.342	
		filt. PM	2	3.04	4	34.70	0.159	0.350	
		filt. PM	3	2.58	4	34.70	0.135	0.297	
		AVERAGE						0.150	0.330
		PM-10	1	1.61	4	34.70	0.0843	0.186	
		PM-10	2	1.55	4	34.70	0.0811	0.179	
		PM-10	3	1.35	4	34.70	0.0707	0.156	
		AVERAGE						0.0787	0.173
Suction cyclone	3-46" 1D-3D cyclones	filt. PM	1	2.69	3	35.20	0.104	0.229	
		filt. PM	2	3.62	3	35.20	0.140	0.309	
		filt. PM	3	4.33	3	35.20	0.168	0.369	
		AVERAGE						0.137	0.302
		PM-10	1	1.44	3	35.20	0.0557	0.123	
		PM-10	2	1.81	3	35.20	0.0700	0.154	
		PM-10	3	2.11	3	35.20	0.0816	0.180	
		AVERAGE						0.0691	0.152
Lint cleaner cyclone	8-48" 1D-3D cyclones	filt. PM	1	1.01	8	33.20	0.110	0.243	
		filt. PM	2	1.60	8	33.20	0.175	0.386	
		filt. PM	3	1.03	8	33.20	0.113	0.248	
		AVERAGE						0.133	0.292
		PM-10	1	0.517	8	33.20	0.0566	0.125	
		PM-10	2	0.912	8	33.20	0.0998	0.220	
		PM-10	3	0.544	8	33.20	0.0595	0.131	
		AVERAGE						0.0719	0.158
Overflow cyclone	1-40" 1D-3D cyclone	filt. PM	1	1.26	1	31.00	0.0185	0.0406	
		filt. PM	2	1.41	1	31.00	0.0206	0.0455	
		filt. PM	3	1.41	1	31.00	0.0206	0.0455	
		AVERAGE						0.0199	0.0439
		PM-10	1	0.809	1	31.00	0.0118	0.0261	
		PM-10	2	0.975	1	31.00	0.0143	0.0314	
		PM-10	3	0.714	1	31.00	0.0105	0.0230	
		AVERAGE						0.0122	0.0269

Source category:

Cotton

COTTON6

Date: 11/11/94

Plant name :

County Line Gin

Location: Hanford, CA

Test date :

Dec 8-11, 1991

Ref. No.:

Process :

Basis for process rate :

production

Source	Type of control	Pollutant	Run No.	Emission rate, lb/hr	Number of cyclones	Process rate, bales/hr	Emission factor			
							kg/bale	lb/bale		
No. 1 drying cyclone	4-41" 1D-3D cyclones	filt. PM	1	1.41	4	33.90	0.0755	0.166		
		filt. PM	2	2.74	4	33.90	0.147	0.323		
		filt. PM	3	2.00	4	33.90	0.107	0.236		
		AVERAGE							0.110	0.242
		PM-10	1	0.473	4	33.90	0.0253	0.0558		
		PM-10	2	1.47	4	33.90	0.0785	0.173		
		PM-10	3	0.857	4	33.90	0.0459	0.101		
		AVERAGE							0.0499	0.110
Gin stand trash cyclone <i>Includes cleaner trash, mote trash, gin stand/feed trash</i>	2-38" 1D-3D cyclones	filt. PM	1	4.62	2	31.10	0.135	0.297		
		filt. PM	2	3.13	2	31.10	0.0914	0.201		
		filt. PM	3	3.10	2	31.10	0.0905	0.199		
		AVERAGE							0.106	0.233
		PM-10	1	1.73	2	31.10	0.0505	0.111		
		PM-10	2	1.37	2	31.10	0.0400	0.0881		
		PM-10	3	1.23	2	31.10	0.0359	0.0791		
		AVERAGE							0.0421	0.0928
Battery condenser cyclone	4-49" 1D-3D cyclones	filt. PM	1	0.320	4	32.20	0.0180	0.0398		
		filt. PM	2	0.610	4	32.20	0.0344	0.0758		
		filt. PM	3	1.04	4	32.20	0.0587	0.129		
		AVERAGE							0.0370	0.0816
		PM-10	1	0.127	4	32.20	0.00716	0.0158		
		PM-10	2	0.122	4	32.20	0.00689	0.0152		
		PM-10	3	0.0616	4	32.20	0.00347	0.00765		
		AVERAGE							0.00584	0.0129
No. 2 drying cyclone	4-40" 1D-3D cyclones	filt. PM	1	0.790	4	33.00	0.0435	0.0958		
		filt. PM	2	0.820	4	33.00	0.0451	0.0994		
		filt. PM	3	0.950	4	33.00	0.0523	0.115		
		AVERAGE							0.0470	0.103
		PM-10	1	0.448	4	33.00	0.0247	0.0543		
		PM-10	2	0.400	4	33.00	0.0220	0.0484		
		PM-10	3	0.456	4	33.00	0.0251	0.0552		
		AVERAGE							0.0239	0.0527

2 additional cyclones control emissions from mote cleaning operations
 1-36" 1D-3D cyclone
 and
 1-44" 1D-3D cyclone