AP42 Section:	9.7
Background Chapter	4
Reference:	5
Title:	Source Emission Testing--County Line Gin, BTC Environmental, Inc., Ventura, CA, December 3-4, 1990.

Source category: Cotton COTTON5 Date: 02/15/95
Plant name : County Line Gin Location: Hanford, CA
Test date : Dec 3-4, 1990 Ref. No.:
Process : Basis for process rate :

Source	Type of control	Pollutant	Run No.	Emission rate, lb/hr	Number of cyclones	Process rate, bales/hr	Emission factor kg/bale	Emission factor lb/bale
Motes	2 60" 2D-2D cyclones	Total PM	1	4.14	2	18.20	0.21	0.45
		Total PM	2	14.80	2	18.20	0.74	1.6
		AVERAGE					0.47	1.0
		PM-10	1	1.010	2	18.20	0.050	0.11
		PM-10	2	4.51	2	18.20	0.23	0.50
		AVERAGE					0.14	0.30
Lint trap	Sixteen 38" 2D-2D cyclones	Total PM	1	2.32	16	18.50	0.91	2.0
		Total PM	2	2.92	16	18.50	1.1	2.5
		AVERAGE					1.0	2.3
		PM-10	1	0.819	16	18.50	0.32	0.71
		PM-10	2	1.33	16	18.50	0.52	1.2
		AVERAGE					0.42	0.93
Suction cyclone	Four 34" 2D-2D cyclones	Total PM	1	1.15	4	21.90	0.095	0.21
		Total PM	2	1.26	4	21.90	0.10	0.23
		AVERAGE					0.10	0.22
		PM-10	1	1.15	4	21.90	0.095	0.21
		PM-10	2	1.25	4	21.90	0.10	0.23
		AVERAGE					0.10	0.22
No. 1 dryer cyclone	Six 38" 2D-2D cyclones	Total PM	1	0.98	6	18.40	0.15	0.32
		Total PM	2	2.36	6	18.40	0.35	0.77
		AVERAGE					0.25	0.54
		PM-10	1	0.413	6	18.40	0.061	0.13
		PM-10	2	0.880	6	18.40	0.13	0.29
		AVERAGE					0.096	0.21

Filename: DEC90GIN.WQ1
DATA ARE A RE-CALCULATION OF REPORT RESULTS PER A MEMO FROM ECKLEY ENGINEERING STATING THAT THE DUCT SIZE OF 19" USED IN THE CALCULATION WAS INCORRECT.
THE ACTUAL SIZE WAS 28". THEREFORE, FLOW RATES WERE MULTIPLIED BY (28/19) ^ 2.

D. Emission Data/Mass Flux Rates/Emission Factors

Test ID	Parameter	Units	Values reported		
			Run 1	Run 2	Average
1	Stack temperature	Deg F	60.4	74.3	
MOTES	Pressure	in. HG	30.21	30.21	
CYCLONE	Moisture	%	0.9	0.7	
	Oxygen	%	20.9	20.9	
	Volumetric flow, actual	acfm	10555	10691	
	Volumetric flow, standard*	dscfm	10553	10432	
	Isokinetic variation	%	95.4	95.1	
Circle: Production or feed rate Capacity:		bales/hr	9.1	9.1	
	Pollutant concentrations:				
	Total PM	G/dscf	0.0458	0.1653	
	PM-10	% of PM	24.3%	30.5%	
	Pollutant mass flux rates:				
	Total PM	lb/hr	4.14	14.8	9.46
	PM-10	lb/hr	1.01	4.5	2.76
	Emission factors (ENGLISH UNITS):				AVERAGE
	Total PM	lb/bale	0.455	1.62	1.04
	PM-10	lb/bale	0.111	0.495	0.303

*DSCFM BASED ON A STANDARD TEMPERATURE OF 60 DEGREES FAHRENHEIT