APPENDIX B

Documentation of Analysis Files

Appendix B consists of three parts:

19. A listing of variables appearing on SCHOOL1, the school-level analysis file; variables are ordered by position and formats associated with the variables are identified.
20. A listing of variables appearing on COMBIN4, the classroom-level analysis file; variables are ordered by position and formats associated with the variables are identified.
21. A format library that defines the meaning of variable values.

Phase I Analysis Data Set Information
School Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
1	studyid	Char	8	1472	$8.		Study ID
2	P1WT1	Num	8	0	6.		Initial Sampling Weight
3	P1WT2	Num	8	8	8.3		Wgt Component for SubSample Waves 1-2
4	P1WT3	Num	8	16	6.		Eligible based on Phase 1 Data (0/1)
5	P1WT4	Num	8	24	8.3		Phase I Sampling Weight
6	Eligible	Char	1	1480		YesNo	Eligibility Status: 1 = Eligible
7	P1WT2PF1	Num	8	32			Phase I Formaldehyde Weight Component
8	P1WT4PF1	Num	8	40			Phase I Samp Wgt H2CO, Adj Inelig Sch
9	RespSch	Num	8	48		YesNo	PhaseI Data either Teacher, Facil, or H2CO Data
10	ResQuex	Num	8	56		YesNo	PhaseI Data either Teacher or Facility Data
11	CDS_CODE	Char	25	1481	$25.		Unique CA School ID
12	NorthSouth	Char	3	1506	$3.		North/South County Indicator
13	PopStatus	Char	1	1509		$pop	Population Indicator
14	P_CalWORKs	Num	8	64	8.		Percent Based on CalWORKs and Total Enrollment
15	P_Meals	Num	8	72	8.		Percent Total Meals and Total Enrollment
16	Sch_Type	Char	1	1510		$sch	Three Category School Type
17	p_mealsC	Num	8	80			0 LT 45 P_Meals / 1 Otherwise
18	AvgCost	Num	8	88	DOLLAR10.2		Expenditure per Student
19	AvgCostC	Num	8	96			Average Cost Per Student - Dich
20	AvgCostA	Num	8	104			Adjusted Average Cost Per Student
21	ResPF1	Num	8	112		YesNo	School with at Least One Valid H2CO Value
22	WgtClass	Num	8	120			School Level Weight Class
23	SumW4W3	Num	8	128			WgtClass Sum of P1WT4 * P1WT3
24	SumW4Ir	Num	8	136			WgtClass Sum of P1WT4 * ResQuex

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Phase I Analysis Data Set Information
School Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
25	SumW4PF1	Num	8	144			WgtClass Sum of P1WT4PF1
26	SumW4PF	Num	8	152			WgtClass Sum of P1WT4 * ResPF1
27	P1WT5	Num	8	160			Non-response Adj -- School Level
28	P1WT5PF1	Num	8	168			Adj for H2CO NonResp -- School Level
29	P1WT6	Num	8	176			Stat Analysis Wgt Adj for Sch Level NonResp
30	P1WT6PF1	Num	8	184			Stat Analy Wgt Adj H2CO NonResp -- Sch Lev
31	FQ_ID	Char	9	1511	$9.		Facility Questionnaire ID
32	FQ1	Num	8	192	BEST12.	Fq1f	Job Category
33	FQ2	Num	8	200	BEST12.	Fq2f	Work Location
34	FQ3	Num	8	208	BEST12.	Fq3f	Years Worked in this School
35	FQ4	Num	8	216	BEST12.	YesNoD	May we contact you later?
36	FQ6	Num	8	224	BEST12.		Year of School's Original Construction
37	FQ7A	Num	8	232	BEST12.		Number Portable/Reloc Classrooms at Site
38	FQ7B	Num	8	240	BEST12.		Number Permanent/Trad Classrooms at Site
39	FQ8	Num	8	248	BEST12.	Fq8	Building Density near the School
40	FQ9AA	Num	8	256	BEST12.	YesNo	Nearby Areas/Activity - Roadways - Busy Intersection(s)
41	FQ9AB	Num	8	264	BEST12.	YesNo	Nearby Areas/Activity - Roadways - Congested Streets
42	FQ9AC	Num	8	272	BEST12.	YesNo	Nearby Areas/Activity - Roadways - Freeways
43	FQ9AD	Num	8	280	BEST12.	YesNo	Nearby Areas/Activity - Roadways - Dirt/Gravel Roads
44	FQ9AE	Num	8	288	BEST12.	YesNo	Nearby Areas/Activity - Roadways - Serpentine Road Cover
45	FQ9AF	Num	8	296	BEST12.	YesNo	Nearby Areas/Activity - Roadways - None
46	FQ9BA	Num	8	304	BEST12.	YesNo	Nearby Areas/Activity - Commercial - Service Stations
47	FQ9BB	Num	8	312	BEST12.	YesNo	Nearby Areas/Activity - Commercial - Heavy Industrial
48	FQ9BC	Num	8	320	BEST12.	YesNo	Nearby Areas/Activity - Commercial - Light Industrial

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
49	FQ9BD	Num	8	328	BEST12.	YesNo	Nearby Areas/Activity - Commercial - Truck Route/Depot
50	FQ9BE	Num	8	336	BEST12.	YesNo	Nearby Areas/Activity - Commercial - Rail Route/Depot
51	FQ9BF	Num	8	344	BEST12.	YesNo	Nearby Areas/Activity - Commercial - None
52	FQ9CA	Num	8	352	BEST12.	YesNo	Nearby Areas/Activity - Agriculture - Livestock
53	FQ9CB	Num	8	360	BEST12.	YesNo	Nearby Areas/Activity - Agriculture - Row Crops
54	FQ9CC	Num	8	368	BEST12.	YesNo	Nearby Areas/Activity - Agriculture - Orchards
55	FQ9CD	Num	8	376	BEST12.	YesNo	Nearby Areas/Activity - Agriculture - Open Fields
56	FQ9CE	Num	8	384	BEST12.	YesNo	Nearby Areas/Activity - Agriculture - None
57	FQ9DA	Num	8	392	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - School Buses
58	FQ9DB	Num	8	400	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - Transit Buses
59	FQ9DC	Num	8	408	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - Trucks
60	FQ9DD	Num	8	416	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - Trains
61	FQ9DE	Num	8	424	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - Farm Equipment
62	FQ9DF	Num	8	432	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - Generators
63	FQ9DG	Num	8	440	BEST12.	YesNo	Nearby Areas/Activity - Diesel Eng - None
64	FQ9EA	Num	8	448	BEST12.	YesNo	Nearby Areas/Activity - Waste Facility - Sewage Trt
65	FQ9EB	Num	8	456	BEST12.	YesNo	Nearby Areas/Activity - Waste Facility - Municipal Waste
66	FQ9EC	Num	8	464	BEST12.	YesNo	Nearby Areas/Activity - Waste Facility - Composting
67	FQ9ED	Num	8	472	BEST12.	YesNo	Nearby Areas/Activity - Waste Facility - Recycling
68	FQ9EE	Num	8	480	BEST12.	YesNo	Nearby Areas/Activity - Waste Facility - None
69	FQ10AA	Num	8	488	BEST12.	YesNo	HVAC Maintenance Done by - School Staff
70	FQ10AB	Num	8	496	BEST12.	YesNo	HVAC Maintenance Done by - District Staff
71	FQ10AC	Num	8	504	BEST12.	YesNo	HVAC Maintenance Done by - Contractor
72	FQ10AD	Num	8	512	BEST12.	YesNo	HVAC Maintenance Done by - None

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
73	FQ10AE	Num	8	520	BEST12.	YesNo	HVAC Maintenance Done by - Don't Know
74	FQ10AF	Num	8	528	BEST12.	YesNo	HVAC Maintenance Done by - N/A
75	FQ11AA	Num	8	536	BEST12.	YesNo	HVAC Maintenance Log Location - Not Kept
76	FQ11AB	Num	8	544	BEST12.	YesNo	HVAC Maintenance Log Location - On Equipment
77	FQ11AC	Num	8	552	BEST12.	YesNo	HVAC Maintenance Log Location - Paper Files
78	FQ11AD	Num	8	560	BEST12.	YesNo	HVAC Maintenance Log Location - Computer
79	FQ11AE	Num	8	568	BEST12.	YesNo	HVAC Maintenance Log Location - Contractor
80	FQ11AF	Num	8	576	BEST12.	YesNo	HVAC Maintenance Log Location - Other
81	FQ11AG	Num	8	584	BEST12.	YesNo	HVAC Maintenance Log Location - Don't Know
82	FQ12A	Num	8	592	BEST12.		Typical Thermostat Setting During Class - Heating
83	FQ12B	Num	8	600	BEST12.		Typical Thermostat Setting During Class - Cooling
84	FQ13AA	Num	8	608	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Never
85	FQ13AB	Num	8	616	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Nights
86	FQ13AC	Num	8	624	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Weekends
87	FQ13AD	Num	8	632	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Holidays
88	FQ13AE	Num	8	640	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Summer Vac
89	FQ13AF	Num	8	648	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - Don't Know
90	FQ13AG	Num	8	656	BEST12.	YesNo	Thermostats Usually Set Back/Shut Down - N/A
91	FQ14	Num	8	664	BEST12.	Fq14f	Daily Start Time of System on School Days
92	FQ15AA	Num	8	672	BEST12.	Fq15f	Reg Insp/Main: Outdoor Air Damper Setting
93	FQ15AB	Num	8	680	BEST12.	Fq15f	Reg Insp/Main: Coils Cleaned
94	FQ15AC	Num	8	688	BEST12.	Fq15f	Reg Insp/Main: Condensate Pan and Drain
95	FQ15AD	Num	8	696	BEST12.	Fq15f	Reg Insp/Main: HVAC Filter Replaced
96	FQ15AE	Num	8	704	BEST12.	Fq15f	Reg Insp/Main: Heat Exchanger Checked

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
97	FQ16A	Num	8	712	BEST12.	Fq16f	Freq Usual Custodial: Trash Removed
98	FQ16B	Num	8	720	BEST12.	Fq16f	Freq Usual Custodial: Vacuumed, Swept, and Dusted
99	FQ16C	Num	8	728	BEST12.	Fq16cf	Freq Usual Custodial: Carpets Steam- or Dry-Cleaned
100	FQ17AA	Num	8	736	BEST12.	YesNo	Gen Bldg Main/Repair: School Staff
101	FQ17AB	Num	8	744	BEST12.	YesNo	Gen Bldg Main/Repair: District Staff
102	FQ17AC	Num	8	752	BEST12.	YesNo	Gen Bldg Main/Repair: Contractor
103	FQ17AD	Num	8	760	BEST12.	YesNo	Gen Bldg Main/Repair: None
104	FQ17AE	Num	8	768	BEST12.	YesNo	Gen Bldg Main/Repair: Don't Know
105	FQ18	Num	8	776	BEST12.	Fq18f	Num Bldg Main Staff Assigned/School
106	FQ19A	Num	8	784	BEST12.	YesNoD	Aware of US EPA's IAQ Tools for School
107	FQ19B	Num	8	792	BEST12.	YesNoD	Does School Use IAQ Kit
108	FQ20AA	Num	8	800	BEST12.	YesNo	Types of Pesticides used at School - Lawn Care
109	FQ20AB	Num	8	808	BEST12.	YesNo	Types of Pesticides used at School - Crack/Crevice
110	FQ20AC	Num	8	816	BEST12.	YesNo	Types of Pesticides used at School - Spray Can
111	FQ20AD	Num	8	824	BEST12.	YesNo	Types of Pesticides used at School - Other
112	FQ20AF	Num	8	832	BEST12.	YesNo	Types of Pesticides used at School - Don't Know
113	FQ20AE	Num	8	840	BEST12.	YesNo	Types of Pesticides used at School - None
114	FQ21AA	Num	8	848	BEST12.	YesNo	Reg Scheduled Applications Pesticides - Lawn Care
115	FQ21AB	Num	8	856	BEST12.	YesNo	Reg Scheduled Applications Pesticides - Crack/Crevice
116	FQ21AC	Num	8	864	BEST12.	YesNo	Reg Scheduled Applications Pesticides - Spray Can
117	FQ21AD	Num	8	872	BEST12.	YesNo	Reg Scheduled Applications Pesticides - Other
118	FQ21AF	Num	8	880	BEST12.	YesNo	Reg Scheduled Applications Pesticides - Don't Know
119	FQ21AE	Num	8	888	BEST12.	YesNo	Reg Scheduled Applications Pesticides - None
120	FQ22AA	Num	8	896	BEST12.	YesNo	Routine Applications Pesticides by - School Staff

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
121	FQ22AB	Num	8	904	BEST12.	YesNo	Routine Applications Pesticides by - District Staff
122	FQ22AC	Num	8	912	BEST12.	YesNo	Routine Applications Pesticides by - Pest Control
123	FQ22AE	Num	8	920	BEST12.	YesNo	Routine Applications Pesticides by - Don't Know
124	FQ22AD	Num	8	928	BEST12.	YesNo	Routine Applications Pesticides by - None
125	FQ23AA	Num	8	936	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - Weekly
126	FQ23AB	Num	8	944	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - Monthly
127	FQ23AC	Num	8	952	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - Quarterly
128	FQ23AD	Num	8	960	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - Annually
129	FQ23AE	Num	8	968	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - GE 2 Years
130	FQ23AF	Num	8	976	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - Don't Know
131	FQ23AG	Num	8	984	BEST12.	YesNo	Usual Freq Classroom Apply Pesticides - N/A
132	FQ24	Num	8	992	BEST12.	YesNoD	Implemented Integrated Pest Management (IPM) at Site
133	FQ25	Num	8	1000	BEST12.	YesNoD	Major Complaints/Environment Conditions in Last Year
134	FQ25AA	Num	8	1008	BEST12.	Fq25f	Roof Leak - Number Portable/Relocatable
135	FQ25AB	Num	8	1016	BEST12.	Fq25f	Plumbing Leak or Flood - Number Portable/Reloc
136	FQ25AC	Num	8	1024	BEST12.	Fq25f	Air Quality/Odor - Number Portable/Relocatable
137	FQ25AD	Num	8	1032	BEST12.	Fq25f	Mold - Number Portable/Relocatable
138	FQ25AE	Num	8	1040	BEST12.	Fq25f	Temperature - Number Portable/Relocatable
139	FQ25AF	Num	8	1048	BEST12.	Fq25f	Noise - Number Portable/Relocatable
140	FQ25BA	Num	8	1056	BEST12.	Fq25f	Roof Leak - Number Permanent/Traditional
141	FQ25BB	Num	8	1064	BEST12.	Fq25f	Plumbing Leak or Flood - Number Permanent/Trad
142	FQ25BC	Num	8	1072	BEST12.	Fq25f	Air Quality/Odor - Number Permanent/Traditional
143	FQ25BD	Num	8	1080	BEST12.	Fq25f	Mold - Number Permanent/Traditional
144	FQ25BE	Num	8	1088	BEST12.	Fq25f	Temperature - Number Permanent/Traditional

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
145	FQ25BF	Num	8	1096	BEST12.	Fq25f	Noise - Number Permanent/Traditional
146	FQ26AA	Num	8	1104	BEST12.	YesNo	Who Responds to Envir Compl: District Main Staff
147	FQ26AB	Num	8	1112	BEST12.	YesNo	Who Responds to Envir Compl: District Health/Safety
148	FQ26AC	Num	8	1120	BEST12.	YesNo	Who Responds to Envir Compl: District Risk Management
149	FQ26AD	Num	8	1128	BEST12.	YesNo	Who Responds to Envir Compl: School Nurse
150	FQ26AE	Num	8	1136	BEST12.	YesNo	Who Responds to Envir Compl: Outside Consultant
151	FQ26AF	Num	8	1144	BEST12.	YesNo	Who Responds to Envir Compl: Other
152	FQ26AH	Num	8	1152	BEST12.	YesNo	Who Responds to Envir Compl: Don't Know
153	I_F	Num	8	1160		YesNo	Facility Data: 1 if Yes, 0 if No
154	Sum_WT6	Num	8	1168			Sum(P1WT6(i)
155	SWT6_IF	Num	8	1176			Sum(P1WT6(i)*I_F(i))
156	P1WT5FAC	Num	8	1184			Non-response Adjustment - WgtClass Level
157	P1WT6FAC	Num	8	1192			Stat Anal Wgt Adj for Sch Lev FQ NonResp
158	p_calwor	Num	8	1200			AFDC <= 25%
159	p_meal	Num	8	1208			Meal Assistance <=55%
160	pavgcost	Num	8	1216		YesNoD	Avg Student Expenditure <=$5500
161	areacode	Num	8	1224			Area code
162	schage	Num	8	1232		Fschage	School age (yrs)
163	rfq15	Num	8	1240		Frfq15_	Regular HVAC inspection/maintenance
164	rfq12a	Num	8	1248			Thermostat setting in class - heating
165	rfq12b	Num	8	1256			Thermostat setting in class - cooling
166	numport	Num	8	1264			Number of portable classrooms
167	numtrad	Num	8	1272			Number of traditional classrooms
168	numtc	Num	8	1280			Total number classrooms

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
169	numtot	Num	8	1288			Total number classrooms
170	hvaclog	Num	8	1296		YesNoD	HVAC maintenance log kept
171	usetol	Num	8	1304		Fusetol	Awareness/use of EPA IAQ Tools
172	rfq25aa	Num	8	1312		Fq25f	Roof leak complaint last yr: Portable
173	rfq25ab	Num	8	1320		Fq25f	Plumbing leak complaint last yr: Portable
174	rfq25ac	Num	8	1328		Fq25f	Air/odor complaint last yr: Portable
175	rfq25ad	Num	8	1336		Fq25f	Mold complaint last yr: Portable
176	rfq25ae	Num	8	1344		Fq25f	Temperature complaint last yr: Portable
177	rfq25af	Num	8	1352		Fq25f	Noise complaint last yr: Portable
178	rfq25ba	Num	8	1360		Fq25f	Roof leak complaint last yr: Traditional
179	rfq25bb	Num	8	1368		Fq25f	Plumbing leak complaint last yr: Traditional
180	rfq25bc	Num	8	1376		Fq25f	Air/odor complaint last yr: Traditional
181	rfq25bd	Num	8	1384		Fq25f	Mold complaint last yr: Traditional
182	rfq25be	Num	8	1392		Fq25f	Temperature complaint last yr: Traditional
183	rfq25bf	Num	8	1400		Fq25f	Noise complaint last yr: Traditional
184	portcp	Num	8	1408		YesNoD	Envir complaints from port classrooms
185	tradcp	Num	8	1416		YesNoD	Envir complaints from trad classrooms
186	apsu	Num	8	1424			Analysis PSU identifier (school)
187	astratum	Num	8	1432			Analysis stratum (identically 1)
188	overall	Num	8	1440			Identically 1
189	popstat	Num	8	1448		Fpopstat	School location
190	schtype	Num	8	1456		Fschtype	School type
191	region	Num	8	1464		Fregion	Geographic region

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Phase I Analysis Data Set Information
School Analysis Data Set

-----Sort Information-----	
Sortedby:	astratum apsu
Validated:	YES
Character Set:	ANSI

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
1	studyid	Char	8	5744	$8.		Study ID
2	alpha_id	Char	8	5752	$8.		Alpha Value on ID Suffix
3	RoomType	Num	8	0		Type	Classroom Classification
4	FRoom	Char	17	5760			Facility Room Number
5	FRmType	Num	8	8		Type	Facility Portable or Traditional Classroom
6	FQ27B	Num	8	16		Fq27bf	FQ27XB: Don't Know Manufacturer
7	FTypePort	Num	8	24		Typeprtf	FQ27XC: Type of Portable Classroom
8	FReloc3Yr	Num	8	32			FQ27XD: Times Relocated in Last 3 Years
9	FYrConst	Num	8	40			FQ28X: Year of Construction/Manufacture
10	FQ29_A	Num	8	48		YesNo	FQ29XA: Major Renov/Add - Addition
11	FQ29_B	Num	8	56		YesNo	FQ29XB: Major Renov/Add - Lighting
12	FQ29_C	Num	8	64		YesNo	FQ29XC: Major Renov/Add - HVAC
13	FQ29_D	Num	8	72		YesNo	FQ29XD: Major Renov/Add - Roof
14	FQ29_E	Num	8	80		YesNo	FQ29XE: Major Renov/Add - Floor
15	FQ29_F	Num	8	88		YesNo	FQ29XF: Major Renov/Add - Wall
16	FQ30_A	Num	8	96		YesNo	FQ30XA: Major Remediations - Asbestos
17	FQ30_B	Num	8	104		YesNo	FQ30XB: Major Remediations - Lead
18	FQ30_C	Num	8	112		YesNo	FQ30XC: Major Remediations - Mold
19	FQ30_D	Num	8	120		YesNo	FQ30XD: Major Remediations - Other
20	FQ31	Num	8	128		Fq31f	FQ31X: Classroom Size (Sq. Ft.)
21	FQ32	Num	8	136		Fq32f	FQ32X: Number Classrooms in Bldg
22	FQ33	Num	8	144		Fq33f	FQ33X: Floor Level of this Classroom
23	FQ34_A	Num	8	152		Fq34af	FQ34XA: Type of Building Foundation
24	FQ34_BA	Num	8	160		YesNo	FQ34XBA: Type of Ground Cover - Dirt
25	FQ34_BB	Num	8	168		YesNo	FQ34XBB: Type of Ground Cover - Gravel

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
26	FQ34_BC	Num	8	176		YesNo	FQ34XBC: Type of Ground Cover - Plastic
27	FQ34_BD	Num	8	184		YesNo	FQ34XBD: Type of Ground Cover - Concrete/Asphalt
28	FQ34_BE	Num	8	192		YesNo	FQ34XBE: Type of Ground Cover - Other
29	FQ34_C	Num	8	200		Fq34cf	FQ34XC: Raised Floor Inches Above Ground
30	FQ35	Num	8	208		Fq35f	FQ35X: Roof Last Replaced (in years)
31	FQ36	Num	8	216		Fq36f	FQ36X: Type of Roof
32	FQ37	Num	8	224		Fq37f	FQ37X: Roof Pitch
33	FQ38	Num	8	232		YesNoD	FQ38X: Suspended Ceilings
34	FQ39_A	Num	8	240		YesNo	FQ39XA: Within 50 Ft/Classroom - Parking Lot/Roadway
35	FQ39_B	Num	8	248		YesNo	FQ39XB: Within 50 Ft/Classroom - Loading Dock
36	FQ39_C	Num	8	256		YesNo	FQ39XC: Within 50 Ft/Classroom - Flue Exhaust
37	FQ39_D	Num	8	264		YesNo	FQ39XD: Within 50 Ft/Classroom - Dumpster
38	FQ39_E	Num	8	272		YesNo	FQ39XE: Within 50 Ft/Classroom - Custodial Room
39	FQ39_F	Num	8	280		YesNo	FQ39XF: Within 50 Ft/Classroom - Bathroom
40	FQ39_G	Num	8	288		YesNo	FQ39XG: Within 50 Ft/Classroom - Art Room
41	FQ39_H	Num	8	296		YesNo	FQ39XH: Within 50 Ft/Classroom - Shop
42	FQ39_I	Num	8	304		YesNo	FQ39XI: Within 50 Ft/Classroom - Cafeteria
43	FQ39_J	Num	8	312		YesNo	FQ39XJ: Within 50 Ft/Classroom - Science Lab
44	FQ40_A	Num	8	320		YesNo	FQ40XA: Peeling Paint - Inside
45	FQ40_B	Num	8	328		YesNo	FQ40XB: Peeling Paint - Outside
46	FQ40_C	Num	8	336		YesNo	FQ40XC: Peeling Paint - None
47	FQ41	Num	8	344		YesNoD	FQ41X: Packaged HVAC Unit
48	FQ42	Num	8	352		Fq42f	FQ42X: Location Main Air Handler Unit AHU
49	FQ43	Num	8	360		Fq43f	FQ43X: Type of Main Heating System
50	FQ44_1	Num	8	368		YesNoD	FQ44: Heating Fuel or Energy Type - Electric

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
51	FQ44_2	Num	8	376		YesNoD	FQ44: Heating Fuel or Energy Type - Gas
52	FQ44_3	Num	8	384		YesNoD	FQ44: Heating Fuel or Energy Type - Solar
53	FQ44_4	Num	8	392		YesNoD	FQ44: Heating Fuel or Energy Type - Other
54	FQ44_5	Num	8	400		YesNoD	FQ44: Heating Fuel or Energy Type - Don't Know
55	FQ44_6	Num	8	408		YesNoD	FQ44: Heating Fuel or Energy Type - N/A
56	FQ45	Num	8	416		Fq45f	FQ45X: Type of Main Cooling System
57	FQ46	Num	8	424		Fq46f	FQ46X: Mode of Supply Fan Operation
58	FQ47	Num	8	432		YesNoD	FQ47X: Economizer
59	FQ48_A	Num	8	440			FQ48XA: Minimum Setting of Outdoor Damper %
60	FQ48_B	Num	8	448		Fq48bf	FQ48XB: Don't Know Min Setting Outdoor Damper%
61	FQ49_A	Num	8	456		YesNo	FQ49XA: Type Return Vents - Open Plenum
62	FQ49_B	Num	8	464		YesNo	FQ49XB: Type Return Vents - Ducted
63	FQ49_C	Num	8	472		YesNo	FQ49XC: Type Return Vents - Other
64	FQ49_D	Num	8	480		YesNo	FQ49XD: Type Return Vents - Don't Know
65	FQ49_E	Num	8	488		YesNo	FQ49XE: Type Return Vents - N/A
66	FQ50_A	Num	8	496		YesNo	FQ50XA: Filter Type - Fiberglass Mesh
67	FQ50_B	Num	8	504		YesNo	FQ50XB: Filter Type - Pleated
68	FQ50_C	Num	8	512		YesNo	FQ50XC: Filter Type - High Efficiency
69	FQ50_D	Num	8	520		YesNo	FQ50XD: Filter Type - Other
70	FQ50_E	Num	8	528		YesNo	FQ50XE: Filter Type - Don't Know
71	FQ50_F	Num	8	536		YesNo	FQ50XF: Filter Type - N/A
72	FQ51_A	Num	8	544		YesNo	FQ51XA: Supply Ductwork - Flexible
73	FQ51_B	Num	8	552		YesNo	FQ51XB: Supply Ductwork - Sheet Metal
74	FQ51_C	Num	8	560		YesNo	FQ51XC: Supply Ductwork - Other
75	FQ51_D	Num	8	568		YesNo	FQ51XD: Supply Ductwork - Don't Know

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
76	FQ51_E	Num	8	576		YesNo	FQ51XE: Supply Ductwork - N/A
77	FQ52_1	Num	8	584		YesNoD	FQ52: Thermostat Control by Maintenance
78	FQ52_2	Num	8	592		YesNoD	FQ52: Thermostat Control by Teacher
79	FQ52_3	Num	8	600		YesNoD	FQ52: Thermostat Control by Ctl Energy Mgt
80	FQ52_4	Num	8	608		YesNoD	FQ52: Thermostat Control by Other
81	FQ52_5	Num	8	616		YesNoD	FQ52: Thermostat Control by Don't Know
82	FQ52_6	Num	8	624		YesNoD	FQ52: Thermostat Control by NA
83	FQ53_A	Num	8	632		YesNo	FQ53XA: Space Heater(s) - Electric
84	FQ53_B	Num	8	640		YesNo	FQ53XB: Space Heater(s) - Gas
85	FQ53_C	Num	8	648		YesNo	FQ53XC: Space Heater(s) - Propane
86	FQ53_D	Num	8	656		YesNo	FQ53XD: Space Heater(s) - Kerosene
87	FQ53_E	Num	8	664		YesNo	FQ53XE: Space Heater(s) - Wood
88	FQ53_F	Num	8	672		YesNo	FQ53XF: Space Heater(s) - Other
89	FQ53_G	Num	8	680		YesNo	FQ53XG: Space Heater(s) - None
90	FQ54	Num	8	688		Fq54f	FQ54X: Humidity Control
91	FQ55_A	Num	8	696		YesNo	FQ55XA: Fans - Ceiling
92	FQ55_B	Num	8	704		YesNo	FQ55XB: Fans - Window
93	FQ55_C	Num	8	712		YesNo	FQ55XC: Fans - Lab or Range Hood
94	FQ55_D	Num	8	720		YesNo	FQ55XD: Fans - Other
95	FQ55_E	Num	8	728		YesNo	FQ55XE: Fans - Don't Know
96	FQ55_F	Num	8	736		YesNo	FQ55XF: Fans - None
97	FQ56_A	Num	8	744		YesNo	FQ56XA: Flooding/Leaks - Roof Leak
98	FQ56_B	Num	8	752		YesNo	FQ56XB: Flooding/Leaks - Plumbing Leak
99	FQ56_C	Num	8	760		YesNo	FQ56XC: Flooding/Leaks - Ground Level
100	FQ56_D	Num	8	768		YesNo	FQ56XD: Flooding/Leaks - Other

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
101	FQ56_E	Num	8	776		YesNo	FQ56XE: Flooding/Leaks - Don't Know
102	FQ56_F	Num	8	784		YesNo	FQ56XF: Flooding/Leaks - None
103	FQ57_A	Num	8	792		YesNo	FQ57XA: Visible Mold Growth - Window
104	FQ57_B	Num	8	800		YesNo	FQ57XB: Visible Mold Growth - Wall
105	FQ57_C	Num	8	808		YesNo	FQ57XC: Visible Mold Growth - Carpet
106	FQ57_D	Num	8	816		YesNo	FQ57XD: Visible Mold Growth - Ceiling
107	FQ57_E	Num	8	824		YesNo	FQ57XE: Visible Mold Growth - Classroom Item
108	FQ57_F	Num	8	832		YesNo	FQ57XF: Visible Mold Growth - Furniture
109	FQ57_G	Num	8	840		YesNo	FQ57XG: Visible Mold Growth - Cabinet
110	FQ57_H	Num	8	848		YesNo	FQ57XH: Visible Mold Growth - Other
111	FQ57_I	Num	8	856		YesNo	FQ57XI: Visible Mold Growth - Don't Know
112	FQ57_J	Num	8	864		YesNo	FQ57XJ: Visible Mold Growth - None
113	FQ58	Num	8	872		YesNoD	FQ58X: Lawn Sprinklers Spray Outside Wall
114	FQ59	Num	8	880		Fq59f	FQ59X: Standing Water Within 50 Ft. of Bldg
115	FQ60_A	Num	8	888		YesNo	FQ60XA: New Pressed Wood - Bookcases/Cabinets
116	FQ60_B	Num	8	896		YesNo	FQ60XB: New Pressed Wood - Tack Boards
117	FQ60_C	Num	8	904		YesNo	FQ60XC: New Pressed Wood - Desks
118	FQ60_D	Num	8	912		YesNo	FQ60XD: New Pressed Wood - Chairs
119	FQ60_E	Num	8	920		YesNo	FQ60XE: New Pressed Wood - Don't Know
120	FQ60_F	Num	8	928		YesNo	FQ60XF: New Pressed Wood - None
121	FQ61	Num	8	936		YesNoD	FQ61X: Painting, Caulking or Sealing
122	FQ62_A	Num	8	944		YesNo	FQ62XA: New Floor Covering - Carpet
123	FQ62_B	Num	8	952		YesNo	FQ62XB: New Floor Covering - Linoleum
124	FQ62_C	Num	8	960		YesNo	FQ62XC: New Floor Covering - Vinyl
125	FQ62_D	Num	8	968		YesNo	FQ62XD: New Floor Covering - Rubber

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
126	FQ62_E	Num	8	976		YesNo	FQ62XE: New Floor Covering - Wood
127	FQ62_F	Num	8	984		YesNo	FQ62XF: New Floor Covering - Other
128	FQ62_G	Num	8	992		YesNo	FQ62XG: New Floor Covering - Don't Know
129	FQ63_A	Num	8	1000		YesNo	FQ63XA: Pesticides/Classrooms - Crack/Crevice
130	FQ63_B	Num	8	1008		YesNo	FQ63XB: Pesticides/Classrooms - Fumigation
131	FQ63_C	Num	8	1016		YesNo	FQ63XC: Pesticides/Classrooms - Bomb
132	FQ63_D	Num	8	1024		YesNo	FQ63XD: Pesticides/Classrooms - Spray Can
133	FQ63_E	Num	8	1032		YesNo	FQ63XE: Pesticides/Classrooms - Traps
134	FQ63_F	Num	8	1040		YesNo	FQ63XF: Pesticides/Classrooms - Powder
135	FQ63_G	Num	8	1048		YesNo	FQ63XG: Pesticides/Classrooms - Other
136	FQ63_H	Num	8	1056		YesNo	FQ63XH: Pesticides/Classrooms - DK
137	FQ63_I	Num	8	1064		YesNo	FQ63XI: Pesticides/Classrooms - None
138	FQ64_A	Num	8	1072		YesNo	FQ64XA: Light Bulbs - T8 Fluorescent
139	FQ64_B	Num	8	1080		YesNo	FQ64XB: Light Bulbs - T12 Fluorescent
140	FQ64_C	Num	8	1088		YesNo	FQ64XC: Light Bulbs - Incandescent
141	FQ64_D	Num	8	1096		YesNo	FQ64XD: Light Bulbs - Don't Know
142	FQ64_E	Num	8	1104		YesNo	FQ64XE: Light Bulbs - None
143	TQ_ID	Char	9	5777	$9.		Teacher Questionnaire ID
144	ROOM	Char	17	5786	$17.		Room Description - CA-PAC Teacher Data
145	H2CO_ppm	Num	8	1112			H2CO_ppm
146	DQFLAG	Num	8	1120		Flagf	Data Quality Flag Assigned to Record
147	field_ob	Num	8	1128		YesNo	Field Observation
148	FQ_ID	Char	9	5803	$9.		Facility Questionnaire ID
149	ResQuex	Num	8	1136		YesNo	PhaseI Data either Teacher or Facility Data
150	n_port	Num	8	1144			Number of Portable Classrooms in School

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
151	n_trad	Num	8	1152			Number of Traditional Classrooms in School
152	ResPF1	Num	8	1160		YesNo	School with at Least One Valid H2CO Value
153	P1WT1	Num	8	1168	6.		Initial Sampling Weight
154	P1WT2	Num	8	1176	8.3		Wgt Component for SubSample Waves 1-2
155	P1WT3	Num	8	1184	6.		Eligible based on Phase 1 Data (0/1)
156	P1WT4	Num	8	1192	8.3		Phase I Sampling Weight
157	P1WT2PF1	Num	8	1200			Phase I Formaldehyde Weight Component
158	P1WT4PF1	Num	8	1208			Phase I Samp Wgt H2CO, Adj Inelig Sch
159	CDS_CODE	Char	25	5812	$25.		Unique CA School ID
160	NorthSouth	Char	3	5837	$3.		North/South County Indicator
161	PopStatus	Char	1	5840		$pop	Population Indicator
162	P_CalWORKs	Num	8	1216	8.		Percent Based on CalWORKs and Total Enrollment
163	P_Meals	Num	8	1224	8.		Percent Total Meals and Total Enrollment
164	Sch_Type	Char	1	5841		$sch	Three Category School Type
165	p_mealsC	Num	8	1232			0 LT 45 P_Meals / 1 Otherwise
166	AvgCost	Num	8	1240	DOLLAR10.2		Expenditure per Student
167	AvgCostC	Num	8	1248		Acostf	Average Cost Per Student - Dich
168	AvgCostA	Num	8	1256			Adjusted Average Cost Per Student
169	WgtClass	Num	8	1264			School Level Weight Class
170	P1WT5	Num	8	1272			Non-response Adj -- School Level
171	P1WT5PF1	Num	8	1280			Adj for H2CO NonResp -- School Level
172	P1WT6	Num	8	1288			Stat Analysis Wgt Adj for Sch Level NonResp
173	P1WT6PF1	Num	8	1296			Stat Analy Wgt Adj H2CO NonResp -- Sch Lev
174	I_F	Num	8	1304		YesNo	Facility Data: 1 if Yes, 0 if No
175	SWT6_IF	Num	8	1312			Sum(P1WT6(i)*I_F(i))

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
176	P1WT5FAC	Num	8	1320			Non-response Adjustment - WgtClass Level
177	P1WT6FAC	Num	8	1328			Stat Anal Wgt Adj for Sch Lev FQ NonResp
178	n_p3	Num	8	1336			Num Port Classrooms (1-3) - Phase 1
179	n_t3	Num	8	1344			Num Trad Classrooms (0-2) - Phase 1
180	P1WT7	Num	8	1352			Classroom Sampling Weight Component
181	P1WT8	Num	8	1360			Classroom Inital Sampling Weight
182	P1WT8PF1	Num	8	1368			Classroom Inital Samp Wgt H2CO Sample
183	Resp1	Num	8	1376		YesNo	Teacher Data Response
184	Resp2	Num	8	1384		YesNo	Facility Data Response
185	Resp3	Num	8	1392		YesNo	Valid Field Ob Formaldehyde Response
186	Resp12	Num	8	1400		YesNo	Teacher and Facility Response
187	Resp13	Num	8	1408		YesNo	Teacher/Valid Field Ob Response
188	Resp23	Num	8	1416		YesNo	Facility/Valid Field Ob Response
189	Resp123	Num	8	1424		YesNo	Teacher/Facility/Field Ob Response
190	WgtClass2	Num	8	1432			Classroom Level Weight Class
191	SWT8_R1	Num	8	1440			Sum(P1WT8(i)*Resp1(i))
192	SWT8_R2	Num	8	1448			Sum(P1WT8(i)*Resp2(i))
193	SWT8_R12	Num	8	1456			Sum(P1WT8(i)*Resp12(i))
194	SWT8PF_R3	Num	8	1464			Sum(P1WT8PF1(i)*Resp3(i))
195	SWT8PF_R13	Num	8	1472			Sum(P1WT8PF1(i)*Resp13(i))
196	SWT8PF_R23	Num	8	1480			Sum(P1WT8PF1(i)*Resp23(i))
197	SWT8PF_R123	Num	8	1488			Sum(P1WT8PF1(i)*Resp123(i))
198	P1WT9_1	Num	8	1496			Adj for TQ NonResp - Classroom
199	P1WT10_1	Num	8	1504			Stat Anal Wgt for TQ
200	P1WT9_2	Num	8	1512			Adj for FQ NonResp - Classroom

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
201	P1WT10_2	Num	8	1520			Stat Anal Wgt for FQ
202	P1WT9_12	Num	8	1528			Adj for TQ & FQ NonResp - Classroom
203	P1WT10_12	Num	8	1536			Stat Anal Wgt for TQ and FQ
204	P1WT9_3	Num	8	1544			Adj for H2CO NonResp - Classroom
205	P1WT10_3	Num	8	1552			Stat Anal Wgt for H2CO Data
206	P1WT9_13	Num	8	1560			Adj for TQ & H2CO NonResp Classroom
207	P1WT10_13	Num	8	1568			Stat Anal Wgt for TQ & H2CO Data
208	P1WT9_23	Num	8	1576			Adj for FQ & H2CO NonResp Classroom
209	P1WT10_23	Num	8	1584			Stat Anal Wgt for FQ & H2CO Data
210	P1WT9_123	Num	8	1592			Adj for TQ, FQ & H2CO NR Classroom
211	P1WT10_123	Num	8	1600			Stat Anal Wgt TQ, FQ & H2CO Data
212	Location	Char	25	5842	$25.		School name from H2CO sampling
213	StartDateTime	Char	30	5867	$30.		StartDateTime
214	StopDateTime	Char	30	5897	$30.		StopDateTime
215	ExposureHours	Char	30	5927	$30.		ExposureHours
216	A_580	Num	8	1608			H2CO raw instrument response
217	LotNum	Char	8	5957	$8.		Lot number for H2CO vials
218	Blank_ug	Num	8	1616			Average of lab blanks (ug)
219	Slope	Num	8	1624			H2CO calibration line: slope
220	Intercept	Num	8	1632			H2CO calibration line: intercept
221	H2CO_ug	Num	8	1640			H2CO_ug
222	Comments	Char	50	5965	$50.		Comments from lab
223	H2CO_0	Num	8	1648			H2CO_PPM: Negative/Zero H2CO_ppm = 0
224	H2CO_1	Num	8	1656			H2CO_PPM: Negative/Zero H2CO_ppm = 0.0001
225	logH2CO	Num	8	1664			Log of Max 0.0001 or H2CO_ppm

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
226	Date	Num	8	1672	MMDDYY10.		Date CA-PAC Teacher Data
227	TQ1A	Num	8	1680	BEST12.	Tq1f	Teacher Gender
228	TQ1B	Num	8	1688	BEST12.		Teacher Age
229	TQ2	Num	8	1696	BEST12.	Tq2f	Job Category
230	TQ3A	Num	8	1704	BEST12.	Tq3f	How long have you worked in this room?
231	TQ3B	Num	8	1712	BEST12.	Tq3bcf	How long have you worked in this school?
232	TQ3C	Num	8	1720	BEST12.	Tq3bcf	How long have you worked in teaching prof?
233	TQ4A	Num	8	1728	BEST12.		Time spent in classroom - Days of the week
234	TQ4B	Num	8	1736	BEST12.	Tq4bf	Time spent in classroom - Hours of the day
235	TQ5	Num	8	1744	BEST12.	Tq5f	Classroom best described as
236	TQ6A	Num	8	1752	BEST12.	YesNo	Student Grade Level Taught in Room - KG
237	TQ6B	Num	8	1760	BEST12.	YesNo	Student Grade Level Taught in Room - G1
238	TQ6C	Num	8	1768	BEST12.	YesNo	Student Grade Level Taught in Room - G2
239	TQ6D	Num	8	1776	BEST12.	YesNo	Student Grade Level Taught in Room - G3
240	TQ6E	Num	8	1784	BEST12.	YesNo	Student Grade Level Taught in Room - G4
241	TQ6F	Num	8	1792	BEST12.	YesNo	Student Grade Level Taught in Room - G5
242	TQ6G	Num	8	1800	BEST12.	YesNo	Student Grade Level Taught in Room - G6
243	TQ6H	Num	8	1808	BEST12.	YesNo	Student Grade Level Taught in Room - G7
244	TQ6I	Num	8	1816	BEST12.	YesNo	Student Grade Level Taught in Room - G8
245	TQ6J	Num	8	1824	BEST12.	YesNo	Student Grade Level Taught in Room - G9
246	TQ6K	Num	8	1832	BEST12.	YesNo	Student Grade Level Taught in Room - G10
247	TQ6L	Num	8	1840	BEST12.	YesNo	Student Grade Level Taught in Room - G11
248	TQ6M	Num	8	1848	BEST12.	YesNo	Student Grade Level Taught in Room - G12
249	TQ6N	Num	8	1856	BEST12.	YesNo	Student Grade Level Taught in Room - N/A
250	TQ7	Num	8	1864	BEST12.	Tq7f	Students stay in room or change rooms

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
251	TQ8	Num	8	1872	BEST12.		How many students per class typically in room
252	TQ9	Num	8	1880	BEST12.	Type	Type of building classroom is in
253	TQ10A	Num	8	1888	BEST12.	YesNo	Flooring in Room - Carpet - Entire Room
254	TQ10B	Num	8	1896	BEST12.	YesNo	Flooring in Room - Carpet - Partial Room
255	TQ10C	Num	8	1904	BEST12.	YesNo	Flooring in Room - Carpet - Area Rug
256	TQ10D	Num	8	1912	BEST12.	YesNo	Flooring in Room - Carpet - Sitting Pads
257	TQ10E	Num	8	1920	BEST12.	YesNo	Flooring in Room - Hard - Vinyl/linoleum
258	TQ10F	Num	8	1928	BEST12.	YesNo	Flooring in Room - Hard - Wood
259	TQ10G	Num	8	1936	BEST12.	YesNo	Flooring in Room - Hard - Rubber
260	TQ10H	Num	8	1944	BEST12.	YesNo	Flooring in Room - Hard - Concrete/ceramic
261	TQ10I	Num	8	1952	BEST12.	YesNo	Flooring in Room - Hard - Walk-off mat(s)
262	TQ11	Num	8	1960	BEST12.	Tq11f	Primary Wall Material
263	TQ12_N	Num	8	1968	BEST12.	YesNo	Plumbing in Room - None
264	TQ12_S	Num	8	1976	BEST12.	YesNo	Plumbing in Room - Sink
265	TQ12_T	Num	8	1984	BEST12.	YesNo	Plumbing in Room - Toilet
266	TQ12_F	Num	8	1992	BEST12.	YesNo	Plumbing in Room - Fountain
267	TQ13	Num	8	2000	BEST12.	Tq13f	Sides of Room with Windows
268	TQ14A	Num	8	2008	BEST12.	YesNo	Type of Windows in Room - None
269	TQ14B	Num	8	2016	BEST12.	YesNo	Type of Windows in Room - Above 9 ft
270	TQ14C	Num	8	2024	BEST12.	YesNo	Type of Windows in Room - Up to Door Hgt
271	TQ14D	Num	8	2032	BEST12.	YesNo	Type of Windows in Room - Skylights
272	TQ14E	Num	8	2040	BEST12.	YesNo	Type of Windows in Room - Up to 9 ft
273	TQ15	Num	8	2048	BEST12.	Tq15f	How often open windows for ventilation
274	TQ16A	Num	8	2056	BEST12.	YesNoD	Does a door open directly to outdoors?
275	TQ16B	Num	8	2064	BEST12.	Tq15f	How often is door to outside open d/school day

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
276	TQ17	Num	8	2072	BEST12.	YesNoD	Air Conditioning in Room?
277	TQ18A	Num	8	2080	BEST12.	YesNoD	Thermostat in the Room?
278	TQ18B	Num	8	2088	BEST12.		Case of thermostat in Room
279	TQ19A_A	Num	8	2096	BEST12.	YesNo	Furnishings/Room - Tables & Desks - None
280	TQ19A_B	Num	8	2104	BEST12.	YesNo	Furnishings/Room - Tables & Desks - Metal
281	TQ19A_C	Num	8	2112	BEST12.	YesNo	Furnishings/Room - Tables & Desks - Solid Wood
282	TQ19A_D	Num	8	2120	BEST12.	YesNo	Furnishings/Room - Tables & Desks - Pressed Wood
283	TQ19A_E	Num	8	2128	BEST12.	YesNo	Furnishings/Room - Tables & Desks - Plastic
284	TQ19A_F	Num	8	2136	BEST12.	YesNo	Furnishings/Room - Tables & Desks - Don't Know
285	TQ19B_A	Num	8	2144	BEST12.	YesNo	Furnishings in Room - Bookcases - None
286	TQ19B_B	Num	8	2152	BEST12.	YesNo	Furnishings in Room - Bookcases - Metal
287	TQ19B_C	Num	8	2160	BEST12.	YesNo	Furnishings in Room - Bookcases - Solid Wood
288	TQ19B_D	Num	8	2168	BEST12.	YesNo	Furnishings in Room - Bookcases - Pressed Wood
289	TQ19B_E	Num	8	2176	BEST12.	YesNo	Furnishings in Room - Bookcases - Plastic
290	TQ19B_F	Num	8	2184	BEST12.	YesNo	Furnishings in Room - Bookcases - Don't Know
291	TQ19C_A	Num	8	2192	BEST12.	YesNo	Furnishings in Room - Cabinets - None
292	TQ19C_B	Num	8	2200	BEST12.	YesNo	Furnishings in Room - Cabinets - Metal
293	TQ19C_C	Num	8	2208	BEST12.	YesNo	Furnishings in Room - Cabinets - Solid Wood
294	TQ19C_D	Num	8	2216	BEST12.	YesNo	Furnishings in Room - Cabinets - Pressed Wood
295	TQ19C_E	Num	8	2224	BEST12.	YesNo	Furnishings in Room - Cabinets - Plastic
296	TQ19C_F	Num	8	2232	BEST12.	YesNo	Furnishings in Room - Cabinets - Don't Know
297	TQ20A	Num	8	2240	BEST12.	YesNo	New furnishings this school year - None
298	TQ20B	Num	8	2248	BEST12.	YesNo	New furnishings this school year - Carpet
299	TQ20C	Num	8	2256	BEST12.	YesNo	New furnishings this school year - Tables
300	TQ20D	Num	8	2264	BEST12.	YesNo	New furnishings this school year - Desks/Chairs

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
301	TQ20E	Num	8	2272	BEST12.	YesNo	New furnishings this school year - Bookcases
302	TQ20F	Num	8	2280	BEST12.	YesNo	New furnishings this school year - Cabinets
303	TQ20G	Num	8	2288	BEST12.	YesNo	New furnishings this school year - Don't Know
304	TQ21A	Num	8	2296	BEST12.	YesNo	Living Items in Room - Potted Plants or Terrarium
305	TQ21B	Num	8	2304	BEST12.	YesNo	Living Items in Room - Reptiles/amphibians
306	TQ21C	Num	8	2312	BEST12.	YesNo	Living Items in Room - Birds
307	TQ21D	Num	8	2320	BEST12.	YesNo	Living Items in Room - Fish
308	TQ21E	Num	8	2328	BEST12.	YesNo	Living Items in Room - Mammals
309	TQ21F	Num	8	2336	BEST12.	YesNo	Living Items in Room - Bugs
310	TQ22A_A	Num	8	2344	BEST12.	YesNo	Currently in Room - Copiers - None
311	TQ22A_B	Num	8	2352	BEST12.	YesNo	Currently in Room - Copiers - Photocopy Machine
312	TQ22A_C	Num	8	2360	BEST12.	YesNo	Currently in Room - Copiers - Mimeograph Machine
313	TQ22A_D	Num	8	2368	BEST12.	YesNo	Currently in Room - Copiers - Laser Printers
314	TQ22A_E	Num	8	2376	BEST12.	YesNo	Currently in Room - Copiers - Carbonless Copy Paper
315	TQ22A_F	Num	8	2384	BEST12.	YesNo	Currently in Room - Copiers - Laminator
316	TQ22B_A	Num	8	2392	BEST12.	YesNo	Currently in Room - Appliances - None
317	TQ22B_B	Num	8	2400	BEST12.	YesNo	Currently in Room - Appliances - Refrigerator
318	TQ22B_C	Num	8	2408	BEST12.	YesNo	Currently in Room - Appliances - Stove or Oven
319	TQ22B_D	Num	8	2416	BEST12.	YesNo	Currently in Room - Appliances - Washing Machine
320	TQ22B_E	Num	8	2424	BEST12.	YesNo	Currently in Room - Appliances - Lab Burner
321	TQ22B_F	Num	8	2432	BEST12.	YesNo	Currently in Room - Appliances - Microwave Oven
322	TQ22C_A	Num	8	2440	BEST12.	YesNo	Currently in Room - Chemicals - None
323	TQ22C_B	Num	8	2448	BEST12.	YesNo	Currently in Room - Chemicals - Lab Chemicals
324	TQ22C_C	Num	8	2456	BEST12.	YesNo	Currently in Room - Chemicals - Cleaning Products
325	TQ22C_D	Num	8	2464	BEST12.	YesNo	Currently in Room - Chemicals - Biological Spec/Chem

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
326	TQ23A_A	Num	8	2472	BEST12.	YesNo	Ever used in Room - Paints/Pens - Never
327	TQ23A_B	Num	8	2480	BEST12.	YesNo	Ever used in Room - Paints/Pens - Oil/Acrylic Paint
328	TQ23A_C	Num	8	2488	BEST12.	YesNo	Ever used in Room - Paints/Pens - Perm Markers/Pens
329	TQ23A_D	Num	8	2496	BEST12.	YesNo	Ever used in Room - Paints/Pens - Whiteboad Markers
330	TQ23B_A	Num	8	2504	BEST12.	YesNo	Ever used in Room - Glue/Fluids - Never
331	TQ23B_B	Num	8	2512	BEST12.	YesNo	Ever used in Room - Glue/Fluids - Rubber Cement
332	TQ23B_C	Num	8	2520	BEST12.	YesNo	Ever used in Room - Glue/Fluids - Correction Fluid
333	TQ23B_D	Num	8	2528	BEST12.	YesNo	Ever used in Room - Glue/Fluids - Epoxy
334	TQ23C_A	Num	8	2536	BEST12.	YesNo	Ever used in Room - Air Freshener - Never
335	TQ23C_B	Num	8	2544	BEST12.	YesNo	Ever used in Room - Air Freshener - Hanging Freshener
336	TQ23C_C	Num	8	2552	BEST12.	YesNo	Ever used in Room - Air Freshener - Plug-In Freshener
337	TQ23C_D	Num	8	2560	BEST12.	YesNo	Ever used in Room - Air Freshener - Spray Can
338	TQ23D_A	Num	8	2568	BEST12.	YesNo	Ever used in Room - Candles - Never
339	TQ23D_B	Num	8	2576	BEST12.	YesNo	Ever used in Room - Candles - Unscented
340	TQ23D_C	Num	8	2584	BEST12.	YesNo	Ever used in Room - Candles - Scented
341	TQ23D_D	Num	8	2592	BEST12.	YesNo	Ever used in Room - Candles - Incense
342	TQ23E_A	Num	8	2600	BEST12.	YesNo	Ever used in Room - Air Cleaner - Never
343	TQ23E_B	Num	8	2608	BEST12.	YesNo	Ever used in Room - Air Cleaner - Portable Air Fil/Pur
344	TQ23E_C	Num	8	2616	BEST12.	YesNo	Ever used in Room - Air Cleaner - Ozone/Ion-Gen Air Pur
345	TQ24A_A	Num	8	2624	BEST12.	YesNo	Pesticides in Room - Sprays - Never
346	TQ24A_B	Num	8	2632	BEST12.	YesNo	Pesticides in Room - Sprays - In the past
347	TQ24A_C	Num	8	2640	BEST12.	YesNo	Pesticides in Room - Sprays - Currently
348	TQ24B_A	Num	8	2648	BEST12.	YesNo	Pesticides in Room - Powders - Never
349	TQ24B_B	Num	8	2656	BEST12.	YesNo	Pesticides in Room - Powders - In the past
350	TQ24B_C	Num	8	2664	BEST12.	YesNo	Pesticides in Room - Powders - Currently

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
351	TQ24C_A	Num	8	2672	BEST12.	YesNo	Pesticides in Room - Traps - Never
352	TQ24C_B	Num	8	2680	BEST12.	YesNo	Pesticides in Room - Traps - In the past
353	TQ24C_C	Num	8	2688	BEST12.	YesNo	Pesticides in Room - Traps - Currently
354	TQ25	Num	8	2696	BEST12.	Tq25f	Classroom Preference at School
355	TQ26A_A	Num	8	2704	BEST12.	YesNo	Classroom - Temperature - Generally acceptable
356	TQ26A_B	Num	8	2712	BEST12.	YesNo	Classroom - Temperature - Often too cold
357	TQ26A_C	Num	8	2720	BEST12.	YesNo	Classroom - Temperature - Often too hot
358	TQ26B_A	Num	8	2728	BEST12.	YesNo	Classroom - Humidity - Generally acceptable
359	TQ26B_B	Num	8	2736	BEST12.	YesNo	Classroom - Humidity - Often too humid
360	TQ26B_C	Num	8	2744	BEST12.	YesNo	Classroom - Humidity - Often too dry
361	TQ26C_A	Num	8	2752	BEST12.	YesNo	Classroom - Air - Generally acceptable
362	TQ26C_B	Num	8	2760	BEST12.	YesNo	Classroom - Air - Often too drafty
363	TQ26C_C	Num	8	2768	BEST12.	YesNo	Classroom - Air - Often too stale or stuffy
364	TQ26D_A	Num	8	2776	BEST12.	YesNo	Classroom - Light - Generally acceptable
365	TQ26D_B	Num	8	2784	BEST12.	YesNo	Classroom - Light - Too dim
366	TQ26D_C	Num	8	2792	BEST12.	YesNo	Classroom - Light - Glare from lights
367	TQ26D_D	Num	8	2800	BEST12.	YesNo	Classroom - Light - Too bright
368	TQ26D_E	Num	8	2808	BEST12.	YesNo	Classroom - Light - Too much direct sun
369	TQ27A_A	Num	8	2816	BEST12.	YesNo	Noises - Inside - None
370	TQ27A_B	Num	8	2824	BEST12.	YesNo	Noises - Inside - Ventilation (fan)
371	TQ27A_C	Num	8	2832	BEST12.	YesNo	Noises - Inside - Lighting (buzz)
372	TQ27A_D	Num	8	2840	BEST12.	YesNo	Noises - Inside - Next-room voices
373	TQ27A_E	Num	8	2848	BEST12.	YesNo	Noises - Inside - Other
374	TQ27B_A	Num	8	2856	BEST12.	YesNo	Noises - Outside - None
375	TQ27B_B	Num	8	2864	BEST12.	YesNo	Noises - Outside - Playground

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
376	TQ27B_C	Num	8	2872	BEST12.	YesNo	Noises - Outside - Mower/blower
377	TQ27B_D	Num	8	2880	BEST12.	YesNo	Noises - Outside - Traffic
378	TQ27B_E	Num	8	2888	BEST12.	YesNo	Noises - Outside - Aircraft
379	TQ27B_F	Num	8	2896	BEST12.	YesNo	Noises - Outside - Other
380	TQ28	Num	8	2904	BEST12.	Tq28f	Turn off Heater or AC due to noise
381	TQ29A_A	Num	8	2912	BEST12.	YesNo	Pest Problem - Bugs - Never
382	TQ29A_B	Num	8	2920	BEST12.	YesNo	Pest Problem - Bugs - In the Past
383	TQ29A_C	Num	8	2928	BEST12.	YesNo	Pest Problem - Bugs - Currently
384	TQ29B_A	Num	8	2936	BEST12.	YesNo	Pest Problem - Rodents - Never
385	TQ29B_B	Num	8	2944	BEST12.	YesNo	Pest Problem - Rodents - In the Past
386	TQ29B_C	Num	8	2952	BEST12.	YesNo	Pest Problem - Rodents - Currently
387	TQ30A	Num	8	2960	BEST12.	Tq30f	Odors in Classroom - Musty odor
388	TQ30B	Num	8	2968	BEST12.	Tq30f	Odors in Classroom - Cleaning products
389	TQ30C	Num	8	2976	BEST12.	Tq30f	Odors in Classroom - Bus/auto exhaust
390	TQ30D	Num	8	2984	BEST12.	Tq30f	Odors in Classroom - New carpet or furniture
391	TQ30E	Num	8	2992	BEST12.	Tq30f	Odors in Classroom - Fresh paint
392	TQ30F	Num	8	3000	BEST12.	Tq30f	Odors in Classroom - Cooking odor
393	TQ30G	Num	8	3008	BEST12.	Tq30f	Odors in Classroom - Pesticides
394	TQ30H	Num	8	3016	BEST12.	Tq30f	Odors in Classroom - Asphalt/tar
395	TQ30I	Num	8	3024	BEST12.	Tq30f	Odors in Classroom - Tobacco smoke
396	TQ30J	Num	8	3032	BEST12.	Tq30f	Odors in Classroom - Trash or dumpster odor
397	TQ30K	Num	8	3040	BEST12.	Tq30f	Odors in Classroom - Sewer/compost
398	TQ30L	Num	8	3048	BEST12.	Tq30f	Odors in Classroom - First/smoke odor
399	TQ31A_A	Num	8	3056	BEST12.	YesNo	Construction Activities - When - Never
400	TQ31A_B	Num	8	3064	BEST12.	YesNo	Construction Activities - When - In the past

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
401	TQ31A_C	Num	8	3072	BEST12.	YesNo	Construction Activities - When - Currently
402	TQ31A_D	Num	8	3080	BEST12.	YesNo	Construction Activities - When - Don't know
403	TQ31B_A	Num	8	3088	BEST12.	YesNo	Construction Activities - Where - Your room
404	TQ31B_B	Num	8	3096	BEST12.	YesNo	Construction Activities - Where - Same building
405	TQ31B_C	Num	8	3104	BEST12.	YesNo	Construction Activities - Where - Nearby/New Bldg
406	TQ31B_D	Num	8	3112	BEST12.	YesNo	Construction Activities - Where - Outdoors
407	TQ31B_E	Num	8	3120	BEST12.	YesNo	Construction Activities - Where - Other
408	TQ31C_A	Num	8	3128	BEST12.	YesNo	Construction Activities - Type - Painting
409	TQ31C_B	Num	8	3136	BEST12.	YesNo	Construction Activities - Type - Carpentry
410	TQ31C_C	Num	8	3144	BEST12.	YesNo	Construction Activities - Type - Plumbing
411	TQ31C_D	Num	8	3152	BEST12.	YesNo	Construction Activities - Type - Flooring
412	TQ31C_E	Num	8	3160	BEST12.	YesNo	Construction Activities - Type - Roofing
413	TQ31C_F	Num	8	3168	BEST12.	YesNo	Construction Activities - Type - Other
414	TQ32A_A	Num	8	3176	BEST12.	YesNo	Water/Mold - Leak or Flood - Never
415	TQ32A_B	Num	8	3184	BEST12.	YesNo	Water/Mold - Leak or Flood - In the past
416	TQ32A_C	Num	8	3192	BEST12.	YesNo	Water/Mold - Leak or Flood - Currently
417	TQ32A_D	Num	8	3200	BEST12.	YesNo	Water/Mold - Leak or Flood - Don't know
418	TQ32B_A	Num	8	3208	BEST12.	YesNo	Water/Mold - Type - Roof
419	TQ32B_B	Num	8	3216	BEST12.	YesNo	Water/Mold - Type - Window
420	TQ32B_C	Num	8	3224	BEST12.	YesNo	Water/Mold - Type - Sink/toilet overflow
421	TQ32B_D	Num	8	3232	BEST12.	YesNo	Water/Mold - Type - Sprinkler
422	TQ32B_E	Num	8	3240	BEST12.	YesNo	Water/Mold - Type - Plumbing
423	TQ32B_F	Num	8	3248	BEST12.	YesNo	Water/Mold - Type - Other
424	TQ32C_A	Num	8	3256	BEST12.	YesNo	Water/Mold - Water Stains - Never
425	TQ32C_B	Num	8	3264	BEST12.	YesNo	Water/Mold - Water Stains - In the past

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
426	TQ32C_C	Num	8	3272	BEST12.	YesNo	Water/Mold - Water Stains - Currently
427	TQ32C_D	Num	8	3280	BEST12.	YesNo	Water/Mold - Water Stains - Don't know
428	TQ32D_A	Num	8	3288	BEST12.	YesNo	Water/Mold - Stains/Where - Walls
429	TQ32D_B	Num	8	3296	BEST12.	YesNo	Water/Mold - Stains/Where - Ceiling
430	TQ32D_C	Num	8	3304	BEST12.	YesNo	Water/Mold - Stains/Where - Window sills
431	TQ32D_D	Num	8	3312	BEST12.	YesNo	Water/Mold - Stains/Where - Carpet/rug/floor
432	TQ32D_E	Num	8	3320	BEST12.	YesNo	Water/Mold - Stains/Where - Furniture
433	TQ32D_F	Num	8	3328	BEST12.	YesNo	Water/Mold - Stains/Where - Other
434	TQ32E_A	Num	8	3336	BEST12.	YesNo	Water/Mold - Visible Mold - Never
435	TQ32E_B	Num	8	3344	BEST12.	YesNo	Water/Mold - Visible Mold - In the past
436	TQ32E_C	Num	8	3352	BEST12.	YesNo	Water/Mold - Visible Mold - Currently
437	TQ32E_D	Num	8	3360	BEST12.	YesNo	Water/Mold - Visible Mold - Don't know
438	TQ32F_A	Num	8	3368	BEST12.	YesNo	Water/Mold - Mold/Where - Walls
439	TQ32F_B	Num	8	3376	BEST12.	YesNo	Water/Mold - Mold/Where - Ceiling
440	TQ32F_C	Num	8	3384	BEST12.	YesNo	Water/Mold - Mold/Where - Window sills
441	TQ32F_D	Num	8	3392	BEST12.	YesNo	Water/Mold - Mold/Where - Carept/rug/floor
442	TQ32F_E	Num	8	3400	BEST12.	YesNo	Water/Mold - Mold/Where - Furniture
443	TQ32F_F	Num	8	3408	BEST12.	YesNo	Water/Mold - Mold/Where - Other
444	TQ33	Num	8	3416	BEST12.	Tq33f	How often are floors swept or vacuumed?
445	TQ34A	Num	8	3424	BEST12.	YesNoD	Adequate custodial services
446	TQ34B	Num	8	3432	BEST12.	TQ34f	Needed custodial services
447	TQ35A	Num	8	3440	BEST12.	YesNo	Report problems to Custodian
448	TQ35B	Num	8	3448	BEST12.	YesNo	Report problems to Facility staff
449	TQ35C	Num	8	3456	BEST12.	YesNo	Report problems to Principal/Admin
450	TQ35D	Num	8	3464	BEST12.	YesNo	Report problems to Health & Safety staff

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
451	TQ35E	Num	8	3472	BEST12.	YesNo	Report problems to IAQ coordinator
452	TQ36	Num	8	3480	BEST12.	Tq36f	Number of times complained about room
453	TQ37	Num	8	3488	BEST12.	Tq37f	Generally characterize environmental quality
454	TQ38A	Num	8	3496	BEST12.	Tq38f	Absent in the past two weeks?
455	TQ38B	Num	8	3504	BEST12.		Chief cause of absence in past two weeks
456	TQ39A_N	Num	8	3512	BEST12.	YesNo	Symptoms at School - Nose - None
457	TQ39A_O	Num	8	3520	BEST12.	YesNo	Symptoms at School - Nose - Occasional
458	TQ39A_F	Num	8	3528	BEST12.	YesNo	Symptoms at School - Nose - Frequent
459	TQ39A_S	Num	8	3536	BEST12.	YesNo	Symptoms at Home - Nose - Same/Worse
460	TQ39A_I	Num	8	3544	BEST12.	YesNo	Symptoms at Home - Nose - Improves
461	TQ39B_N	Num	8	3552	BEST12.	YesNo	Symptoms at School - Throat - None
462	TQ39B_O	Num	8	3560	BEST12.	YesNo	Symptoms a School - Throat - Occasional
463	TQ39B_F	Num	8	3568	BEST12.	YesNo	Symptoms a School - Throat - Frequent
464	TQ39B_S	Num	8	3576	BEST12.	YesNo	Symptoms at Home - Throat - Same/Worse
465	TQ39B_I	Num	8	3584	BEST12.	YesNo	Symptoms at Home - Throat - Improves
466	TQ39C_N	Num	8	3592	BEST12.	YesNo	Symptoms at School - Eyes - None
467	TQ39C_O	Num	8	3600	BEST12.	YesNo	Symptoms a School - Eyes - Occasional
468	TQ39C_F	Num	8	3608	BEST12.	YesNo	Symptoms a School - Eyes - Frequent
469	TQ39C_S	Num	8	3616	BEST12.	YesNo	Symptoms at Home - Eyes - Same/Worse
470	TQ39C_I	Num	8	3624	BEST12.	YesNo	Symptoms at Home - Eyes - Improves
471	TQ39D_N	Num	8	3632	BEST12.	YesNo	Symptoms at School - Skin - None
472	TQ39D_O	Num	8	3640	BEST12.	YesNo	Symptoms a School - Skin - Occasional
473	TQ39D_F	Num	8	3648	BEST12.	YesNo	Symptoms a School - Skin - Frequent
474	TQ39D_S	Num	8	3656	BEST12.	YesNo	Symptoms at Home - Skin - Same/Worse
475	TQ39D_I	Num	8	3664	BEST12.	YesNo	Symptoms at Home - Skin - Improves

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
476	TQ39E_N	Num	8	3672	BEST12.	YesNo	Symptoms at School - Headaches/Sinus - None
477	TQ39E_O	Num	8	3680	BEST12.	YesNo	Symptoms a School - Headaches/Sinus - Occasional
478	TQ39E_F	Num	8	3688	BEST12.	YesNo	Symptoms a School - Headaches/Sinus - Frequent
479	TQ39E_S	Num	8	3696	BEST12.	YesNo	Symptoms at Home - Headaches/Sinus - Same/Worse
480	TQ39E_I	Num	8	3704	BEST12.	YesNo	Symptoms at Home - Headaches/Sinus - Improves
481	TQ39F_N	Num	8	3712	BEST12.	YesNo	Symptoms at School - Drowsiness - None
482	TQ39F_O	Num	8	3720	BEST12.	YesNo	Symptoms a School - Drowsiness - Occasional
483	TQ39F_F	Num	8	3728	BEST12.	YesNo	Symptoms a School - Drowsiness - Frequent
484	TQ39F_S	Num	8	3736	BEST12.	YesNo	Symptoms at Home - Drowsiness - Same/Worse
485	TQ39F_I	Num	8	3744	BEST12.	YesNo	Symptoms at Home - Drowsiness - Improves
486	TQ39G_N	Num	8	3752	BEST12.	YesNo	Symptoms at School - Dizziness - None
487	TQ39G_O	Num	8	3760	BEST12.	YesNo	Symptoms a School - Dizziness - Occasional
488	TQ39G_F	Num	8	3768	BEST12.	YesNo	Symptoms a School - Dizziness - Frequent
489	TQ39G_S	Num	8	3776	BEST12.	YesNo	Symptoms at Home - Dizziness - Same/Worse
490	TQ39G_I	Num	8	3784	BEST12.	YesNo	Symptoms at Home - Dizziness - Improves
491	TQ39H_N	Num	8	3792	BEST12.	YesNo	Symptoms at School - Diff/Breath - None
492	TQ39H_O	Num	8	3800	BEST12.	YesNo	Symptoms a School - Diff/Breath - Occasional
493	TQ39H_F	Num	8	3808	BEST12.	YesNo	Symptoms a School - Diff/Breath - Frequent
494	TQ39H_S	Num	8	3816	BEST12.	YesNo	Symptoms at Home - Diff/Breath - Same/Worse
495	TQ39H_I	Num	8	3824	BEST12.	YesNo	Symptoms at Home - Diff/Breath - Improves
496	TQ39I_N	Num	8	3832	BEST12.	YesNo	Symptoms at School - Upset Stomach - None
497	TQ39I_O	Num	8	3840	BEST12.	YesNo	Symptoms a School - Upset Stomach - Occasional
498	TQ39I_F	Num	8	3848	BEST12.	YesNo	Symptoms a School - Upset Stomach - Frequent
499	TQ39I_S	Num	8	3856	BEST12.	YesNo	Symptoms at Home - Upset Stomach - Same/Worse
500	TQ39I_I	Num	8	3864	BEST12.	YesNo	Symptoms at Home - Upset Stomach - Improves

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
501	TQ40A_A	Num	8	3872	BEST12.	YesNo	Chronic Med Probs - Hay Fever/Allergies
502	TQ40A_B	Num	8	3880	BEST12.	YesNo	Chronic Med Probs - Asthma
503	TQ40A_C	Num	8	3888	BEST12.	YesNo	Chronic Med Probs - Bronchitis
504	TQ40A_D	Num	8	3896	BEST12.	YesNo	Chronic Med Probs - Hypertension
505	TQ40A_E	Num	8	3904	BEST12.	YesNo	Chronic Med Probs - Heart disease
506	TQ40B_A	Num	8	3912	BEST12.	YesNo	Freq Inhaled Asthma Med - Never
507	TQ40B_B	Num	8	3920	BEST12.	YesNo	Freq Inhaled Asthma Med - 1-2 times/week
508	TQ40B_C	Num	8	3928	BEST12.	YesNo	Freq Inhaled Asthma Med - Most days
509	TQ40B_D	Num	8	3936	BEST12.	YesNo	Freq Inhaled Asthma Med - Every day
510	TQ41	Num	8	3944	BEST12.	Tq41f	Number of Students who take asthma medication
511	TQ42	Num	8	3952	BEST12.	YesNoD	Are you currently a smoker?
512	TQ43	Num	8	3960	BEST12.	YesNoD	Do you live with a smoker?
513	TQ18B_1	Num	8	3968		YesNoD	Thermostat in Room Can be Adjusted
514	TQ18B_2	Num	8	3976		YesNoD	Thermostat in Room is Kept Locked
515	TQ18B_3	Num	8	3984		YesNoD	Thermostat in Room Does Not Work
516	TQ38B_1	Num	8	3992		YesNoD	Chief cause absence past 2 wks Cold/Flu
517	TQ38B_2	Num	8	4000		YesNoD	Chief cause absence past 2 wks Allergies
518	TQ38B_3	Num	8	4008		YesNoD	Chief cause absence past 2 wks Asthma
519	TQ38B_4	Num	8	4016		YesNoD	Chief cause absence past 2 wks Oth Rsp
520	TQ38B_5	Num	8	4024		YesNoD	Chief cause absence past 2 wks Oth Reason
521	meas	Num	8	4032			Formaldehyde Value (H2CO_1) in PPB
522	lnmeas	Num	8	4040			Log(Meas)
523	rtq15	Num	8	4048		Frtq15_	How often open windows for ventilation
524	rtq16a	Num	8	4056		YesNoD	Door directly to outside
525	rtq16b	Num	8	4064		Frtq16b	How often outside door is open

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
526	rtq18b	Num	8	4072		Frtq18b	Thermostat adjustment
527	rtq31a_a	Num	8	4080		YesNoD	Construction - When - Never
528	rtq31a_b	Num	8	4088		YesNoD	Construction - When - Prior
529	rtq31a_c	Num	8	4096		YesNoD	Construction - When - Current
530	rtq31a_d	Num	8	4104		YesNoD	Construction - When - DK
531	rtq31b_a	Num	8	4112		YesNoD	In-room construction this yr
532	rtq31b_b	Num	8	4120		YesNoD	Construction - Where- same bldg
533	rtq31b_c	Num	8	4128		YesNoD	Construction - Where- nearby
534	rtq31b_d	Num	8	4136		YesNoD	Construction - Where- outdoors
535	rtq31b_e	Num	8	4144		YesNoD	Construction - Where- other
536	rtq31c_a	Num	8	4152		YesNoD	Construction - Type- painting
537	rtq31c_b	Num	8	4160		YesNoD	Construction - Type- carpentry
538	rtq31c_c	Num	8	4168		YesNoD	Construction - Type- plumbing
539	rtq31c_d	Num	8	4176		YesNoD	Construction - Type- flooring
540	rtq31c_e	Num	8	4184		YesNoD	Construction - Type- roofing
541	rtq31c_f	Num	8	4192		YesNoD	Construction - Type- other
542	rtq32a_a	Num	8	4200		YesNoD	Water leak/flood - never
543	rtq32a_b	Num	8	4208		YesNoD	Water leak/flood - prior
544	rtq32a_c	Num	8	4216		YesNoD	Water leak/flood - current
545	rtq32a_d	Num	8	4224		YesNoD	Water leak/flood - DK
546	rtq32b_a	Num	8	4232		YesNoD	Water leak/flood - roof
547	rtq32b_b	Num	8	4240		YesNoD	Water leak/flood - window
548	rtq32b_c	Num	8	4248		YesNoD	Water leak/flood - sink/toilet
549	rtq32b_d	Num	8	4256		YesNoD	Water leak/flood - sprinkler
550	rtq32b_e	Num	8	4264		YesNoD	Water leak/flood - plumbing

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
551	rtq32b_f	Num	8	4272		YesNoD	Water leak/flood - other type
552	rtq32c_a	Num	8	4280		YesNoD	Water stains - never
553	rtq32c_b	Num	8	4288		YesNoD	Water stains - prior
554	rtq32c_c	Num	8	4296		YesNoD	Water stains - current
555	rtq32c_d	Num	8	4304		YesNoD	Water stains - DK
556	rtq32d_a	Num	8	4312		YesNoD	Water stains - walls
557	rtq32d_b	Num	8	4320		YesNoD	Water stains - ceiling
558	rtq32d_c	Num	8	4328		YesNoD	Water stains - window sills
559	rtq32d_d	Num	8	4336		YesNoD	Water stains - floor/carpet
560	rtq32d_e	Num	8	4344		YesNoD	Water stains - furniture
561	rtq32d_f	Num	8	4352		YesNoD	Water stains - other
562	rtq32e_a	Num	8	4360		YesNoD	Visible mold - never
563	rtq32e_b	Num	8	4368		YesNoD	Visible mold - prior
564	rtq32e_c	Num	8	4376		YesNoD	Visible mold - current
565	rtq32e_d	Num	8	4384		YesNoD	Visible mold - DK
566	rtq32f_a	Num	8	4392		YesNoD	Visible mold - walls
567	rtq32f_b	Num	8	4400		YesNoD	Visible mold - ceiling
568	rtq32f_c	Num	8	4408		YesNoD	Visible mold - window sills
569	rtq32f_d	Num	8	4416		YesNoD	Visible mold - floor/carpet
570	rtq32f_e	Num	8	4424		YesNoD	Visible mold - furniture
571	rtq32f_f	Num	8	4432		YesNoD	Visible mold - other
572	rtq33	Num	8	4440		Frtq33_	Freq of sweeping/vacuuming
573	rtq34b	Num	8	4448		Frtq34b	Needed custodial services
574	rtq34a	Num	8	4456		YesNoD	Adequate custodial services
575	rtq38b_1	Num	8	4464		Fyesnona	Absent due to flu/cold

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
576	rtq38b_2	Num	8	4472		Fyesnona	Absent due to allergies
577	rtq38b_3	Num	8	4480		Fyesnona	Absent due to asthma
578	rtq38b_4	Num	8	4488		Fyesnona	Absent due to other respiratory
579	rtq38b_5	Num	8	4496		Fyesnona	Absent due to other reasons
580	rtq40b	Num	8	4504		Frtq40b	Freq of asthma medication
581	apsu	Num	8	4512			PSU for analysis
582	astratum	Num	8	4520			Stratum for analysis
583	overall	Num	8	4528			All classrooms (=1)
584	popstat	Num	8	4536		Fpopstat	School location
585	schtype	Num	8	4544		Fschtype	School type
586	region	Num	8	4552		Fregion	Geographic region
587	sampmo	Num	8	4560		Fsampmo	Month of formaldehyde sample
588	ndind100	Num	8	4568			100 if Formaldehyde detected (>6ppb)
589	thr1pct	Num	8	4576			100 if Formaldehyde exceeds 27ppb
590	thr2pct	Num	8	4584			100 if Formaldehyde exceeds 76ppb
591	startday	Num	8	4592	MMDDYY10.		Start date of sampling period
592	stopday	Num	8	4600	MMDDYY10.		Stop date of sampling period
593	xposday	Num	8	4608			Number days in sampling period
594	wdxpos	Num	8	4616			# weekend/holidays in sampling period
595	pwdxpos	Num	8	4624			% weekend/holidays in sampling period
596	pwdxposc	Num	8	4632		YesNoD	<25% weekend/holidays in samp period
597	samptime	Num	8	4640		Fsamptim	Time of formaldehyde sampling
598	geninst	Num	8	4648		YesNoD	General instruction classroom
599	numstud	Num	8	4656		Fnumstud	Typical number students in class
600	carpet	Num	8	4664		Fcarpet	Carpeted classroom

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
601	vinylfl	Num	8	4672		YesNoD	Vinyl/linoleum floor
602	flrtyp	Num	8	4680		Fflrtyp	Type of flooring
603	vinylwl	Num	8	4688		YesNoD	Vinyl tackable wallboard
604	windopen	Num	8	4696		Ffreq	Open windows
605	dooropen	Num	8	4704		Fdooropn	Open external door
606	preswood	Num	8	4712		YesNoD	Pressed wood furniture
607	plastic	Num	8	4720		YesNoD	Plastic furniture
608	preswod1	Num	8	4728		YesNoD	Pressed wood table/desks
609	preswod2	Num	8	4736		YesNoD	Pressed wood bookcases
610	preswod3	Num	8	4744		YesNoD	Pressed wood cabinets
611	newfurn	Num	8	4752		YesNoD	New furnishings this school year
612	copiers	Num	8	4760		YesNoD	Copiers present in room
613	applian	Num	8	4768		Fapplian	Type appliances in room
614	chempres	Num	8	4776		YesNoD	Chemicals present in room
615	paints	Num	8	4784		YesNoD	Oil/acrylic paints used
616	paintpen	Num	8	4792		YesNoD	Paints/pens used
617	pmarker	Num	8	4800		YesNoD	Permanent marker/pen used
618	wbmarker	Num	8	4808		YesNoD	Whiteboard marker used
619	gluflu	Num	8	4816		YesNoD	Glues/fluids used
620	corflu	Num	8	4824		YesNoD	Correction fluid used
621	glues	Num	8	4832		YesNoD	Epoxy/rubber cement used
622	afresh	Num	8	4840		YesNoD	Air freshener used
623	afreshp	Num	8	4848		YesNoD	Air freshener used-plug-in
624	afreshs	Num	8	4856		YesNoD	Air freshener used-spray
625	candles	Num	8	4864		YesNoD	Candles used in room

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
626	airclean	Num	8	4872		YesNoD	Air cleaner used in room
627	airpurf	Num	8	4880		YesNoD	Portable air purifier used
628	pestuse	Num	8	4888		Fpestuse	Pesticide use past yr (teacher)
629	pestspr	Num	8	4896		YesNoD	Pesticide spray use past yr
630	pestpow	Num	8	4904		YesNoD	Pesticide powder use past yr
631	pesttrp	Num	8	4912		YesNoD	Pesticide traps use past yr
632	claspref	Num	8	4920		Fclaspre	Teacher classroom preference
633	temp	Num	8	4928		Ftemp	Classroom temperature
634	humid	Num	8	4936		Fhumid	Classroom humidity
635	cair	Num	8	4944		Fcair	Classroom air
636	light	Num	8	4952		Flight	Classroom light
637	innoise	Num	8	4960		YesNoD	Disruptive inside noise
638	outnoise	Num	8	4968		YesNoD	Disruptive outside noise
639	turnoff	Num	8	4976		YesNoD	Turn off heat/AC due to noise
640	bugprob	Num	8	4984		Fproblem	Bug problems in room
641	rodprob	Num	8	4992		Fproblem	Rodent problems in room
642	mustodor	Num	8	5000		Fodor	Musty odor
643	newodor	Num	8	5008		Fodor	New furnishings odor
644	rtq30a	Num	8	5016		YesNoD	Musty odor at times
645	rtq30b	Num	8	5024		YesNoD	Cleaning products odor at times
646	rtq30c	Num	8	5032		YesNoD	Vehicle exhaust odor at times
647	rtq30d	Num	8	5040		YesNoD	New carpet/furniture odor at times
648	rtq30e	Num	8	5048		YesNoD	Fresh paint odor at times
649	rtq30f	Num	8	5056		YesNoD	Cooking odor at times
650	rtq30g	Num	8	5064		YesNoD	Pesticide odor at times

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
651	rtq30h	Num	8	5072		YesNoD	Asphalt/tar odor at times
652	rtq30i	Num	8	5080		YesNoD	Tobacco smoke odor at times
653	rtq30j	Num	8	5088		YesNoD	Trash/dumpster odor at times
654	rtq30k	Num	8	5096		YesNoD	Sewer/compost odor at times
655	rtq30L	Num	8	5104		YesNoD	Fire/smoke odor at times
656	const	Num	8	5112		Fwatrprb	Construction activity this yr
657	othconst	Num	8	5120		YesNoD	Construction other than in room
658	watrprb	Num	8	5128		Fwatrprb	Water problems this yr
659	watrlek	Num	8	5136		Fwatrprb	Water leaks/flooding in room
660	typlek	Num	8	5144		Ftyplek	Type of leak or flood
661	watrstn	Num	8	5152		Fwatrprb	Water stains in rooms
662	typstn	Num	8	5160		Ftypstn	Type of water stain
663	vismolt	Num	8	5168		Fwatrprb	Visible mold in room (teacher)
664	moldloc	Num	8	5176		Fmoldloc	No. locations with mold
665	flswep	Num	8	5184		Fflswep	Freq of floor cleaning
666	complan	Num	8	5192		Fcomplan	No. teacher complaints this yr
667	airqual	Num	8	5200		Fairqual	Teacher air quality rating
668	absent	Num	8	5208		Fabsent	Days absent last 2 weeks
669	cause	Num	8	5216		Fcause	Reasons for absence
670	nosesym	Num	8	5224		Fsympa	Nose symptoms past 2 weeks
671	nosesymi	Num	8	5232		Fsympb	Nose symptoms at home
672	thrtsym	Num	8	5240		Fsympa	Throat symptoms past 2 weeks
673	thrtsymi	Num	8	5248		Fsympb	Throat symptoms at home
674	eyessym	Num	8	5256		Fsympa	Eyes symptoms past 2 weeks
675	eyessymi	Num	8	5264		Fsympb	Eyes symptoms at home

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
676	skinsym	Num	8	5272		Fsympa	Skin symptoms past 2 weeks
677	skinsymi	Num	8	5280		Fsympb	Skin symptoms at home
678	headsym	Num	8	5288		Fsympa	Headache/sinus pain past 2 weeks
679	headsymi	Num	8	5296		Fsympb	Headache/sinus pain at home
680	drowsym	Num	8	5304		Fsympa	Drowsiness past 2 weeks
681	drowsymi	Num	8	5312		Fsympb	Drowsiness at home
682	dizzsym	Num	8	5320		Fsympa	Dizziness/faintness past 2 weeks
683	dizzsymi	Num	8	5328		Fsympb	Dizziness/faintness at home
684	lungsym	Num	8	5336		Fsympa	Lung symptoms past 2 weeks
685	lungsymi	Num	8	5344		Fsympb	Lung symptoms past at home
686	stomsym	Num	8	5352		Fsympa	Upset stomach past 2 weeks
687	stomsymi	Num	8	5360		Fsympb	Upset stomach at home
688	numsym	Num	8	5368		Fnumsym	No. health symptoms past 2 weeks
689	allerg	Num	8	5376		YesNoD	Chronic hay fever/allergies
690	lungprb	Num	8	5384		YesNoD	Chronic asthma/bronchitis
691	circprb	Num	8	5392		YesNoD	Chronic hypertension/heart disease
692	asmed	Num	8	5400		Fasmed	Inhaled asthma med past 2 weeks
693	stuasma	Num	8	5408		Fstuasma	No. students taking asthma med
694	porttyp	Num	8	5416		Fporttyp	Type of Classroom
695	clragec	Num	8	5424			Classroom age (yrs)
696	clrage	Num	8	5432		Fclrage	Classroom age
697	clragex	Num	8	5440		Fclragex	Classroom age
698	clrageu	Num	8	5448		Fclrageu	Classroom age (known/unknown)
699	renovat	Num	8	5456		YesNoD	Major renovations/additions
700	renovmaj	Num	8	5464		YesNoD	Addition/wall/floor renovations

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-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
701	renovele	Num	8	5472		YesNoD	HVAC or lighting renovations
702	renovruf	Num	8	5480		YesNoD	Roof renovations
703	clrsiz	Num	8	5488		Fclrsiz	Classroom size (sq. ft.)
704	bldgfon	Num	8	5496		Fbldgfon	Building foundation type
705	rfq34c	Num	8	5504		Frfq34c	Floor Height (in)
706	ruftyp	Num	8	5512		Fruftyp	Roof type
707	lddock	Num	8	5520		YesNoD	Load dock/parking/road in 50ft
708	dumpstr	Num	8	5528		YesNoD	Dumpster within 50ft
709	sprooms	Num	8	5536		YesNoD	Spec purpose rooms within 50ft
710	pelpani	Num	8	5544		YesNoD	Peeling paint inside
711	pelpano	Num	8	5552		YesNoD	Peeling paint outside
712	pelpant	Num	8	5560		YesNoD	Peeling paint in or out
713	pachvac	Num	8	5568		YesNoD	Packaged HVAC
714	ahuloc	Num	8	5576		Fahuloc	Main AHU Location
715	centac	Num	8	5584		YesNoD	Central cooling system
716	fanop	Num	8	5592		Ffanop	HVAC supply fan operation
717	dampset	Num	8	5600		Fdampset	Outdoor damper min setting
718	plenopen	Num	8	5608		YesNoD	Plenum open
719	fglfilt	Num	8	5616		YesNoD	HVAC fiberglass mesh filter
720	plefilt	Num	8	5624		YesNoD	HVAC pleated filter
721	hiefilt	Num	8	5632		YesNoD	HVAC high efficiency filter
722	tcntl	Num	8	5640		Ftcntl	Thermostat control
723	spheat	Num	8	5648		YesNoD	Space heaters used
724	watrdam	Num	8	5656		YesNoD	Water damage past 3 yrs
725	rufleak	Num	8	5664		YesNoD	Roof leaks last 3 yrs

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Phase I Analysis Data Set Information
Classroom Analysis Data Set

-----Variables Ordered by Position-----							
#	Variable	Type	Len	Pos	Format	Format Name	Label
726	vismold	Num	8	5672		YesNoD	Visable mold past 3 yrs
727	stdwatr	Num	8	5680		YesNoD	Standing water within 50ft
728	newwood	Num	8	5688		YesNoD	New pressed wood last yr
729	newcarp	Num	8	5696		YesNoD	New carpet past yr
730	newfloor	Num	8	5704		YesNoD	New flooring past yr
731	pestusef	Num	8	5712		YesNoD	Pesticide use past yr (FM)
732	ccpest	Num	8	5720		YesNoD	Crack/crevice pesticides last yr
733	sppest	Num	8	5728		YesNoD	Spray can pesticides last yr
734	flubulb	Num	8	5736		Fflubulb	Fluorecent bulbs

-----Sort Information-----	
Sortedby:	astratum apsu
Validated:	YES
Character Set:	ANSI

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```
proc format;
   value ACostf 0 = "AvgCost LE 0"
                1 = "AvgCost GT 0";
   value fabsent  1='None'
                  2='1-2 days'
                  3='>2 days';
   value fahuloc  1='Wall'
                  2='Roof'
                  3='Floor/Other'
                  4='DK'
                  5='NA';
   value fairqual 1='Excel/Good'
                  2='Adequate'
                  3='Poor';
   value fapplian 1='Stove/burner'
                  2='Other'
                  3='None';
   value fasmed   1='Never'
                  2='Some'
                  3='NA';
   value fbldgfon 1='<Grade'
                  2='Slab'
                  3='Raised Flr';
   value fcair    1='Okay'
                  2='Drafty'
                  3='Stuffy';

   value fcarpet 1='Full'
                 2='Partial'
                 3='None';
   value fcause   1='Cold/flu'
                  2='Allergy/respiratory'
                  3='NA';
   value fclaspre 1='Permanent'
                  2='Portable'
                  3='No Opinion';
   value fclrage  1='<=10yr'
                  2='11-20yr'
                  3='21-30yr'
                  4='31-40yr'
                  5='41+yr';
   value fclrageu 1='Known'
                  2='Unknown';
   value fclragex 1='0-3yr'
                  2='4-5yr'
                  3='6-10yr'
                  4='11-15yr'
                  5='16+yr';
   value fclrsiz  1='<600'
                  2='600-1100'
                  3='>1100';
   value fcomplan 1='0'
                  2='1 to 5'
                  3='>5';

   value fdampset 1='<=10%'
                  2='11-20%'
```

```
                3='21-40%'
                4='>40%'
                5='Unknown';
value fdooropn 1='Infreq'
                2='Freq'
                3='NA';
value ffanop   1='Auto'
                2='Always on'
                3='Other/unspec';
value fflrtyp  1='Carpet only'
                2='Vinyl/linoleum'
                3='Both'
                4='Other carpet combo'
                5='Other';
value fflswep  1='Daily'
                2='2-3/wk'
                3='1/wk'
                4='Other'
                5='DK';
value fflubulb 1='T8'
                2='T12'
                3='Both'
                4='No/DK';
value ffreq   1='Never'
              2='Infreq'
              3='Freq';
value fhumid   1='Okay'
                2='Humid'
                3='Dry';
value Flagf  0 = "Valid"
             1 = "Suspect/Valid";

value flight   1='Okay'
                2='Dim'
                3='Bright';
value fmoldloc 1='No mold'
                2='1-2 locations'
                3='3+ locations';
value fnumstud 1='0-9'
                2='10-19'
                3='20-29'
                4='30-39'
                5='>40';
value fnumsym  1='None'
                2='1-2'
                3='3+';
value fodor    1='Never'
                2='Sometimes'
                3='Often';
value fpestuse 1='Current'
                2='Previous'
                3='Never';
value fpopstat 1='Urban'
                2='Suburb'
                3='Rural';
value fporttyp 1='Port-DSA'
                2='Port-DOH'
```

```
               3='Port-Unk'
               4='Trad'
               5='Trad?';
value fproblem 1='Current'
               2='Previous'
               3='Never';
value fq1f   1 = "Facilities Manager"
             2 = "Assist. Manager"
             3 = "Maintenance Staff"
             4 = "Custodial Staff"
             5 = "Admin Staff"
             6 = "Other";
value fq2f   1 = "District-Wide"
             2 = "At this School Only"
             3 = "At Several Sites";
value fq3f   1 = "1"
             2 = "2-5"
             3 = "6+";
value fq8f   1 = "Urban"
             2 = "Suburban"
             3 = "Rural";
value fq14f  1 = "When First Class Starts"
             2 = "When Teacher Arrives"
             3 = "1-2 Hrs Before Classes Start"
             4 = "Don't Know"
             5 = "N/A"
             8 = "Multiple Responses";
value fq15f  1 = "Monthly"
             2 = "Quarterly"
             3 = "Annually"
             4 = "> Annually"
             5 = "Never"
             6 = "Don't Know"
             7 = "N/A";
value fq16cf 1 = "Quarterly"
             2 = "Annually"
             3 = "> Annually"
             4 = "Don't Know"
             5 = "N/A";
value fq16f  1 = "5 Days/Week"
             2 = "3-4 Days/Week"
             3 = "1-2 Days/Week"
             4 = "1-2 Days/Month"
             5 = "< 1/Month";
value fq18f  1 = "< 1"
             2 = "1"
             3 = "2"
             4 = "3"
             5 = "4"
             6 = "5+";
value fq25f  1="None"
             2="1"
             3="2-4"
             4="5-9"
             5="10+"
             6="LS";
value fq27bf 1 = "Don't Know";
```

```
value fq31f 1 = "< 600"
            2 = "600-1100"
            3 = "1101-2000"
            4 = "> 2000";
value fq32f 1 = "1"
            2 = "2"
            3 = "3-5"
            4 = "6-9"
            5 = "10 +";
value fq33f 1 = "Below Grade"
            2 = "Ground"
            3 = "2nd Story"
            4 = "3rd Story +";
value fq34af 1 = "Below Grade"
             2 = "Slab on Grade"
             3 = "Raised Floor";
value fq34cf 1 = "< 6"
             2 = "6-11"
             3 = "12-17"
             4 = "18 +";
value fq35f  1 = "1-4"
             2 = "5-9"
             3 = "10-19"
             4 = "20 +"
             5 = "Don't Know";
value fq36f  1 = "Membrane"
             2 = "Shingle/Roll"
             3 = "Shake"
             4 = "Tar/Gravel"
             5 = "Metal"
             6 = "Other";
value fq37f  1 = "Flat"
             2 = "Sloped"
             3 = "Both";
value fq42f  1 = "Floor"
             2 = "Wall"
             3 = "Roof"
             4 = "Other"
             5 = "Don't Know"
             6 = "N/A";
value fq43f  1 = "Forced Air"
             2 = "Radiant"
             3 = "Solar"
             4 = "Other"
             5 = "Don't Know"
             6 = "N/A";
value fq45f  1 = "Central AC"
             2 = "Window AC"
             3 = "Swamp"
             4 = "Other"
             5 = "Don't Know"
             6 = "N/A";
value fq46f  1 = "Auto"
             2 = "Always on"
             3 = "Always off"
             4 = "Other"
             5 = "Don't Know"
```

```
             6 = "N/A";
value fq48bf 1 = "Don't Know";
value fq54f  1 = "Humidifier"
             2 = "Dehumidifier"
             3 = "N/A";
value fq59f  1 = "Never"
             2 = "Occassionally"
             3 = "Frequently"
             4 = "Don't Know";
value fregion  1='North'
               2='South';
value frfq15_  1='Yes'
               2='No or NA';
value frfq34c  1='<6'
               2='6-11'
               3='12-17'
               4='18+'
               5='NA or Unk';
value frtq15_ 1='None openable'
              2='Rarely'
              3='Occasionally'
              4='Frequently'
              5='Most of time'
              6='All the time';
value frtq16b 1='No outside door'
              2='Rarely'
              3='Occasionally'
              4='Frequently'
              5='Most of time'
              6='All the time';
value frtq18b 1='Adjustable'
              2='Locked up'
              3='Not working'
              4='Unspecified'
              5='NA or DK';
value frtq33_ 1='Daily'
              2='2-3/wk'
              3='Weekly'
              4='1-2/mo'
              5='<1/mo'
              6='DK';
value frtq34b 1='More freq'
              2='More effective'
              3='Both'
              4='Unspecified'
              5='NA';
value frtq40b 1='Never'
              2='1-2 per wk'
              3='most days'
              4='every day'
              5='NA';
value fruftyp  1='Membrane'
               2='Composite'
               3='Tar/gravel'
               4='Metal'
               5='Other';
value fsampmo  1='April'
```

```
               2='May'
               3='June/July';
value fsamptim 1='Early April'
               2='Late April'
               3='Early May'
               4='Late May'
               5='June/July';
value fschage  1='<=10yr'
               2='11-20yr'
               3='21-30yr'
               4='31-40yr'
               5='41-50yr'
               6='50+yr'
               7='Unspec';
value fschtype 1='Elem'
               2='Middle'
               3='High';
value fstuasma 1='DK'
               2='None'
               3='1-2'
               4='3-5'
               5='6+';
value fsympa   1='None'
               2='Occasional'
               3='Frequent';
value fsympb   1='Same/worse'
               2='Improves'
               3='NA';
value ftcntl   1='Teacher'
               2='Others'
               3='Both'
               4='DK'
               5='NA';
value ftemp    1='Okay'
               2='Cold'
               3='Hot';
value ftyplek  1='Roof'
               2='Other'
               3='Both'
               4='No Leaks';
value ftypstn  1='Ceiling'
               2='Floor'
               3='Both'
               4='Other'
               5='No Stains';
value fusetol  1='Aware/use'
               2='Aware/no use'
               3='Aware/DK'
               4='Unaware';
value fwatrprb 1='Current'
               2='Previous'
               3='Never'
               4='Unknown';
value fyesnona 1='Yes'
               2='No'
               3='NA';
value $pop   '1'="Urban"
```

```
             '2'="Suburban"
             '3'="Rural";
value $sch   '1'="Elementary"
             '2'="Middle"
             '3'="High School";
value tq1f  1 = "Male"
            2 = "Female";
value tq2f  1 = "Teacher"
            2 = "Aide"
            3 = "Administrator"
            4 = "Office Staff"
            5 = "Facility Staff"
            6 = "Other"
            8 = "Multiple Resp";
value tq3bcf 1 = "1"
             2 = "2-5"
             3 = "6-10"
             4 = "11-16"
             5 = "16+";
value tq3f  1 = "< All Year"
            2 = "All Year"
            3 = "2"
            4 = "3+";
value tq4bf 1 = "< 3"
            2 = "3-6"
            3 = "> 6";
value tq5f  1 = "Gen Instruction"
            2 = "Art Room"
            3 = "Science Lab"
            4 = "Ceramic Studio"
            5 = "Computer Lab"
            6 = "Wood Shop"
            7 = "Library"
            8 = "Auto/Metal Shop"
            9 = "Music Room"
           10 = "Office"
           11 = "None of These"
           12 = "Multiple Response";
value tq7f  1 = "Stay"
            2 = "Change";
value tq11f 1 = "Sheetrock/Plaster"
            2 = "Vinyl/Tackable"
            3 = "Painted Cinderblock"
            4 = "Other/Don't Know"
            8 = "Multiple Response";
value tq13f 1 = "None"
            2 = "1"
            3 = "2"
            4 = "3"
            5 = "4";
value tq15f 1 = "Rarely"
            2 = "Most Time"
            3 = "Occasionally"
            4 = "All the Time"
            5 = "Frequently"
            6 = "None Openable";
value tq25f 1 = "Permanent"
```

```
                2 = "Portable"
                3 = "No Opinion";
    value tq28f 1 = "Never"
                2 = "Rarely"
                3 = "Occasionally"
                4 = "Frequently"
                5 = "Most Time";
    value tq30f 1 = "Never"
                2 = "Sometimes"
                3 = "Often";
    value tq33f 1 = "Daily"
                2 = "1-2/Month"
                3 = "2-3/Week"
                4 = "< 1/Month"
                5 = "Weekly"
                6 = "Don't Know";
    value tq34f 1 = "More Frequent"
                2 = "More Effective"
                3 = "Both";
    value tq36f 1 = "Never"
                2 = "1-2"
                3 = "3-5"
                4 = "6-10"
                5 = "11 or More";
    value tq37f 1 = "Excellent"
                2 = "Good"
                3 = "Adequate"
                4 = "Poor"
                5 = "Very Poor";
    value tq38af 1 = "No"
                 2 = "1-2 Days"
                 3 = "3-5 Days"
                 4 = "> 5 Days";
    value tq41f 1 = "Don't Know"
                2 = "None"
                3 = "1-2"
                4 = "3-5"
                5 = "6-10"
                6 = "11+";
    value type   1 = "Portable/Reloc"
                 2 = "Permanent"
                 3 = "Don't Know"
                 4 = "Unknown";
    value typeprtf 1 = "DSA"
                   2 = "DOH"
                   3 = "DK";
    value YesNo  0 = "No"
                 1 = "Yes";
    value YesNoD 1="Yes"
                 2="No"
                 3="Don't Know"
                 4="N/A";
run;
```

APPENDIX C

Data Analysis Programs

```
*** pgm in f:/clayton/RECODSCH.sas;
*** modified 12/15/2001;
************************************************************************
***   PURPOSE: TO RECODE SCHOOL-LEVEL DATA AND CREATE SCHOOL-LEVEL ANALYSIS
      VARIABLES. RESULTS ARE SAVED IN SCHOOL1 FILE;
************************************************************************;

options ls=80 ps=55 nocenter mprint nodate nonumber missing=' ';
libname IN 'F:/data';
libname out 'F:/clayton';
title ' ';
proc format;
value fschtype 1='Elem' 2='Middle' 3='High';
value fregion 1='North' 2='South';
value fpopstat 1='Urban' 2='Suburb' 3='Rural';
value fschage 1='<=10yr' 2='11-20yr' 3='21-30yr' 4='31-40yr'
              5='41-50yr' 6='50+yr' 7='Unspec';
value frfq15_ 1='Yes' 2='No or NA';
value fyesno 1='Yes' 2='No';
value fnumport 1='1-10' 2='11-20' 3='21-30' 4='>30';
value fnumtrad 1='1-20' 2='21-40' 3='41-60' 4='>60';
value fnumtot 1='1-30' 2='31-60' 3='61-100' 4='>100';
value fhvacim 1='Monthly' 2='Quarterly' 3='Yearly' 4='>Year' 5='Never' 6='DK' 7='NA';
value fusetol 1='Aware/use' 2='Aware/no use' 3='Aware/DK' 4='Unaware';
value ffrcomp 1='None' 2='1' 3='2-4' 4='5-9' 5='10+';
run;

data school1;   set in.school;

if p_calworks ne . then p_calwor=2-(p_calworks<=25); * use fyesno format;
if p_meals ne . then p_meal=2-(p_meals<=55);  * use fyesno format;
if avgcosta ne . then pavgcost=2-(avgcosta<=5500);  * use fyesno format;
IF P1WT6FAC>0 THEN DO;
areacode=floor(fq5a/10000000);
  if fq6=. then schage=7;
  else do;
    if fq6 ne . then schage=ceil((2001-fq6)/10);
    if schage>6 then schage=6; *use fschage;
  end;

*** infer FQ15A from other items (this item was not scanned); * use frfq15_ format;
if fq15aa in (1,2,3,4,5,6,7) or fq15ab in (1,2,3,4,5,6,7) or
fq15ac in (1,2,3,4,5,6,7) or fq15ad in (1,2,3,4,5,6,7) or
fq15ae in (1,2,3,4,5,6,7) then rfq15=1; * yes;
else if fq14>=1 then rfq15=2; * no or NA;

*** flag bad and missing data for thermostat settings;
rfq12a=fq12a;
if rfq12a=. then rfq12a=.N;
else if 0<=rfq12a<60 or rfq12a>85 then rfq12a=.B;
rfq12b=fq12b;
if rfq12b=. then rfq12b=.N;
else if 0<=rfq12b<60 or rfq12b>85 then rfq12b=.B;

if fq7a>0 then numport=(1<=fq7a<=10)+2*(11<=fq7a<=20)+3*(21<=fq7a<=30)+4*(fq7a>30);
* use fnumport;
if fq7b>0 then numtrad=(1<=fq7b<=20)+2*(21<=fq7a<=40)+3*(41<=fq7a<=60)+4*(fq7a>60);
* use fnumtrad;
numtc=fq7a+fq7b;
if numtc>0 then
numtot=(1<=numtc<=30)+2*(31<=numtc<=60)+3*(61<=numtc<=100)+4*(numtc>100);
* use fnumtot;

if fq11aa=1 then hvaclog=2;
```

```
else if max(fq11ab,fq11ac,fq11ad,fq11ae,fq11af)=1 then hvaclog=1;
else if fq11ag=1 then hvaclog=3; * use fyesnodk;

if fq19a=1 then usetol=fq19b;else if fq19a=2 then usetol=4; * use fusetol;

rfq25aa=fq25aa;if rfq25aa=. and fq25=2 then rfq25aa=1;
rfq25ab=fq25ab;if rfq25ab=. and fq25=2 then rfq25ab=1;
rfq25ac=fq25ac;if rfq25ac=. and fq25=2 then rfq25ac=1;
rfq25ad=fq25ad;if rfq25ad=. and fq25=2 then rfq25ad=1;
rfq25ae=fq25ae;if rfq25ae=. and fq25=2 then rfq25ae=1;
rfq25af=fq25af;if rfq25af=. and fq25=2 then rfq25af=1;

rfq25ba=fq25ba;if rfq25ba=. and fq25=2 then rfq25ba=1;
rfq25bb=fq25bb;if rfq25bb=. and fq25=2 then rfq25bb=1;
rfq25bc=fq25bc;if rfq25bc=. and fq25=2 then rfq25bc=1;
rfq25bd=fq25bd;if rfq25bd=. and fq25=2 then rfq25bd=1;
rfq25be=fq25be;if rfq25be=. and fq25=2 then rfq25be=1;
rfq25bf=fq25bf;if rfq25bf=. and fq25=2 then rfq25bf=1;

if fq25=1 and max(fq25aa,fq25ab,fq25ac,fq25ad, fq25ae,fq25af)>1 then portcp=1;
else if fq25=2 or max(fq25aa,fq25ab,fq25ac,fq25ad, fq25ae,fq25af)=1 then portcp=2;
else if fq25=3 then portcp=3; * use fyesnodk;
if fq25=1 and max(fq25ba,fq25bb,fq25bc,fq25bd,fq25be,fq25bf)>1 then tradcp=1;
else if fq25=2 or max(fq25ba,fq25bb,fq25bc,fq25bd,fq25be,fq25bf)=1 then tradcp=2;
else if fq25=3 then tradcp=3; * use fyesnodk;

END;

*** create sample design variables,treating sample as having one stratum,
    with PSU=school;
apsu=input(studyid,4.);
astratum=1;

** create other analysis variables;
overall=1;
popstat=input(popstatus,1.);
schtype=input(sch_type,1.);
if northsouth='N' then region=1;else if northsouth='S' then region=2;
label schage='School age (yrs)'
      schtype='School type'
      popstat='School location'
      region='Geographic region'
      p_calwor='AFDC <= 25%'
       p_meal='Meal Assistance <=55%'
      pavgcost='Avg Student Expenditure <=$5500'
      rfq15='Regular HVAC inspection/maintenance'
      overall='Identically 1'
      apsu='Analysis PSU identifier (school)'
      astratum='Analysis stratum (identically 1)'
         hvaclog='HVAC maintenance log kept'
         rfq12a='Thermostat setting in class - heating'
      rfq12b='Thermostat setting in class - cooling'
        numtc='Total number classrooms'
        numtot='Total number classrooms'
        numport='Number of portable classrooms'
        numtrad='Number of traditional classrooms'
        usetol='Awareness/use of EPA IAQ Tools'
        rfq25aa='Roof leak complaint last yr: Portable'
        rfq25ab='Plumbing leak complaint last yr: Portable'
        rfq25ac='Air/odor complaint last yr: Portable'
        rfq25ad='Mold complaint last yr: Portable'
        rfq25ae='Temperature complaint last yr: Portable'
        rfq25af='Noise complaint last yr: Portable'
        rfq25ba='Roof leak complaint last yr: Traditional'
```

```
        rfq25bb='Plumbing leak complaint last yr: Traditional'
        rfq25bc='Air/odor complaint last yr: Traditional'
        rfq25bd='Mold complaint last yr: Traditional'
        rfq25be='Temperature complaint last yr: Traditional'
        rfq25bf='Noise complaint last yr: Traditional'
        portcp='Envir complaints from port classrooms'
        tradcp='Envir complaints from trad classrooms'
        areacode='Area code';
        drop fq5a comb_cat;
run;

PROC SORT OUT=OUT.SCHOOL1;BY ASTRATUM APSU;RUN;
proc contents;
TITLE ' ';
run;
```

```
*** pgm in f:/clayton/recod3_4.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To recode variables in COMBIN3 file to produce COMBIN4 file.
      There are two main types of recodes -- one to account for skip patterns
      (and associated multiple responses), and the other, to create analysis
      variables appropriate for SUDAAN analyses.
************************************************************************;

options ls=130 ps=44 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
libname IN 'F:/data';

title ' ';

*** FOLLOWING IS USED TO RECODE TQ39;
%macro recod39(tq39a_n,tq39a_o,tq39a_f,tq39a_s,tq39a_i,rtq39aa,rtq39ab);
if sum(&tq39a_n,&tq39a_o,&tq39a_f)=0 then do;
   &rtq39aa=.N;
   if sum(&tq39a_s,&tq39a_i)=0 then &rtq39ab=.N;
   if sum(&tq39a_s,&tq39a_i)=1 then &rtq39ab=.S;
   if sum(&tq39a_s,&tq39a_i)>1 then &rtq39ab=.M;
end;
else if sum(&tq39a_n,&tq39a_o,&tq39a_f)=1 then do;
    &rtq39aa=(&tq39a_n=1)+2*(&tq39a_o=1)+3*(&tq39a_f);
    if &rtq39aa=1 then &rtq39ab=3;
    else do;
       if sum(&tq39a_s,&tq39a_i)=1 then
                &rtq39ab=(&tq39a_s=1)+2*(&tq39a_i=1);
       else if sum(&tq39a_s,&tq39a_i)=0 then &rtq39ab=.N;
       else if sum(&tq39a_s,&tq39a_i)=2 then &rtq39ab=.M;
    end;
end;
else if sum(&tq39a_n,&tq39a_o,&tq39a_f)=2 then do;
    &rtq39aa=.M;&rtq39ab=.S;
end;
** use fsympa format for rtq39aa variable;
** use fsympb format for rtq39ab variable;
%mend recod39;

proc format;
*** add formats for recoded variables;
value froomtyp 1='Port' 2='Trad';
value fschtype 1='Elem' 2='Middle' 3='High';
value fregion 1='North' 2='South';
value fpopstat 1='Urban' 2='Suburb' 3='Rural';
value frtq15_ 1='None openable' 2='Rarely' 3='Occasionally'
           4='Frequently' 5='Most of time' 6='All the time';
value frtq16b 1='No outside door' 2='Rarely' 3='Occasionally'
           4='Frequently' 5='Most of time' 6='All the time';
value frtq18b 1='Adjustable' 2='Locked up' 3='Not working'
           4='Unspecified' 5='NA or DK';
value frtq33_ 1='Daily' 2='2-3/wk' 3='Weekly' 4='1-2/mo' 5='<1/mo'
             6='DK';
value frtq34b 1='More freq' 2='More effective' 3='Both'
           4='Unspecified' 5='NA';
value frtq40b 1='Never' 2='1-2 per wk' 3='most days' 4='every day'
           5='NA';
value fcarpet 1='Full' 2='Partial' 3='None';
value ffreq 1='Never' 2='Infreq' 3='Freq';
value fdooropn 1='Infreq' 2='Freq' 3='NA';
value fyesno 1='Yes' 2='No';
value fyesnodk 1='Yes' 2='No' 3='DK';
value fyesnona 1='Yes' 2='No' 3='NA';
```

```
value fyndkna 1='Yes' 2='No' 3='DK' 4='NA';
value ffanop 1='Auto' 2='Always on' 3='Other/unspec';
value fpestuse 1='Current' 2='Previous' 3='Never';
value fclaspre 1='Permanent' 2='Portable' 3='No Opinion';
value ftemp 1='Okay' 2='Cold' 3='Hot';
value fhumid 1='Okay' 2='Humid' 3='Dry';
value fcair 1='Okay' 2='Drafty' 3='Stuffy';
value flight 1='Okay' 2='Dim' 3='Bright';
value fodor 1='Never' 2='Sometimes' 3='Often';
value fwatrprb 1='Current' 2='Previous' 3='Never' 4='Unknown';
value fproblem 1='Current' 2='Previous' 3='Never';
value fcomplan 1='0' 2='1 to 5' 3='>5';
value ftq37_ 1='Excellent' 2='Good' 3='Adequate' 4='Poor' 5='Very Poor';
value airqual 1='Excel/Good' 2='Adequate' 3='Poor';
value fabsent 1='None' 2='1-2 days' 3='>2 days';
value fporttyp 1='Port-DSA' 2='Port-DOH' 3='Port-Unk' 4='Trad' 5='Trad?';
value fclrage 1='<=10yr' 2='11-20yr' 3='21-30yr' 4='31-40yr' 5='41+yr';
value fclragex 1='0-3yr' 2='4-5yr' 3='6-10yr' 4='11-15yr' 5='16+yr';
value fclrageu 1='Known' 2='Unknown';
value fsampmo 1='April' 2='May' 3='June/July';
value fsamptim 1='Early April' 2='Late April' 3='Early May' 4='Late May'
               5='June/July';
value fapplian 1='Stove/burner' 2='Other' 3='None';
value fsympa 1='None' 2='Occasional' 3='Frequent';
value fsympb 1='Same/worse' 2='Improves' 3='NA';
value fclrsiz 1='<600' 2='600-1100' 3='>1100';
value fdampset 1='<=10%' 2='11-20%' 3='21-40%' 4='>40%' 5='Unknown';
value ftcntl 1='Teacher' 2='Others' 3='Both' 4='DK' 5='NA';
value frfq34c 1='<6' 2='6-11' 3='12-17' 4='18+' 5='NA or Unk';
value fbldgfon 1='<Grade' 2='Slab' 3='Raised Flr';
value fruftyp 1='Membrane' 2='Composite' 3='Tar/gravel' 4='Metal' 5='Other';
value fahuloc 1='Wall' 2='Roof' 3='Floor/Other' 4='DK' 5='NA';
value fflubulb 1='T8' 2='T12' 3='Both' 4='No/DK';
value fnumstud 1='0-9' 2='10-19' 3='20-29' 4='30-39' 5='>40';
value fflrtyp 1='Carpet only' 2='Vinyl/linoleum' 3='Both' 4='Other carpet combo'
              5='Other';
value ftyplek 1='Roof' 2='Other' 3='Both' 4='No Leaks';
value ftypstn 1='Ceiling' 2='Floor' 3='Both' 4='Other' 5='No Stains';
value fmoldloc 1='No mold' 2='1-2 locations' 3='3+ locations';
value fflswep 1='Daily' 2='2-3/wk' 3='1/wk' 4='Other' 5='DK';
value fcause 1='Cold/flu' 2='Allergy/respiratory' 3='NA';
value fnumsym 1='None' 2='1-2' 3='3+';
value fasmed 1='Never' 2='Some' 3='NA';
value fstuasma 1='DK' 2='None' 3='1-2' 4='3-5' 5='6+';
run;
*** MAKE RECODES TO ACCOUNT FOR SKIP PATTERNS AND TO RE-ORDER LEVELS OF
    SOME VARIABLES AS REQUESTED BY TOM PHILLIPS;

data combin4;set in.combin3;
************************************************************
** RECODES FOR TQ;
************************************************************;

if p1wt10_1>0 THEN DO;
/*
** REORDERING LEVELS OF TQ14 - not neeeded since separate var;
rtq14a=tq14a;
rtq14b=tq14c;
rtq14c=tq14e;
rtq14d=tq14b;
rtq14e=tq14d;
* use fyesno format for above variables;
*/
** REORDERING LEVELS OF TQ15;
```

```
if tq15=6 then rtq15=1;
else if tq15=1 then rtq15=2;
else if tq15=3 then rtq15=3;
else if tq15=5 then rtq15=4;
else if tq15=2 then rtq15=5;
else if tq15=4 then rtq15=6;
* use frtq15_ format for rtq15;

** SKIP PATTERN RECODES FOR RECODE TQ16;
if tq16a=. then do;
  _rtq16b=tq16b;
  if tq16b>=1 then rtq16a=1;
end;
else if tq16a=1 then do;
  rtq16a=tq16a;_rtq16b=tq16b;
  if tq16b=. then _rtq16b=.N;
end;
else if tq16a=2 then do;
  rtq16a=tq16a;_rtq16b=6; ** category 6 = not applicable;
end;

** REORDERING LEVELS OF TQ16B;
if _rtq16b in (1,6) then rtq16b=_rtq16b;
else if _rtq16b=3 then rtq16b=2;
else if _rtq16b=5 then rtq16b=3;
else if _rtq16b=2 then rtq16b=4;
else if _rtq16b=4 then rtq16b=5;
* use fyesno for rtq16a;
* use frtq16b format for rtq16b;

** SKIP PATTERN RECODES FOR TQ18;
*** NOTE ITEM tq18b HAS BEEN FIXED TO ALLOW MULT RESPONSES;
*** tq18b_1,_2,_3=1 for yes, =2 for no;
if tq18a=. then do;
  if max(tq18b_1,tq18b_2,tq18b_3)>=1 then rtq18b=.S;
end;
else if tq18a=1 then do;
  if tq18b_1=1 then rtq18b=1;
  else if tq18b_2=1 then rtq18b=2;
  else if tq18b_3=1 then rtq18b=3;
  else rtq18b=4; ** category 4 = unspecified;
end;
else if tq18a>=2 then rtq18b=5; ** category 5 = not applicable;
* use fyesnodk format for tq18a;
* use frtq18b format for rtq18b;

** SKIP PATTERN RECODES FOR TQ31;
rtq31a_a=2-tq31a_a;
rtq31a_b=2-tq31a_b;
rtq31a_c=2-tq31a_c;
rtq31a_d=2-tq31a_d;
rtq31b_a=2-tq31b_a;
rtq31b_b=2-tq31b_b;
rtq31b_c=2-tq31b_c;
rtq31b_d=2-tq31b_d;
rtq31b_e=2-tq31b_e;
rtq31c_a=2-tq31c_a;
rtq31c_b=2-tq31c_b;
rtq31c_c=2-tq31c_c;
rtq31c_d=2-tq31c_d;
rtq31c_e=2-tq31c_e;
rtq31c_f=2-tq31c_f;
if max(tq31a_b,tq31a_c,tq31a_d)=1 then rtq31a_a=2;
if rtq31a_a=1 then do;
```

```
  if tq31b_a=1 then rtq31b_a=.S;
  if tq31b_b=1 then rtq31b_b=.S;
  if tq31b_c=1 then rtq31b_c=.S;
  if tq31b_d=1 then rtq31b_d=.S;
  if tq31b_e=1 then rtq31b_e=.S;
  if tq31c_a=1 then rtq31c_a=.S;
  if tq31c_b=1 then rtq31c_b=.S;
  if tq31c_c=1 then rtq31c_c=.S;
  if tq31c_d=1 then rtq31c_d=.S;
  if tq31c_e=1 then rtq31c_e=.S;
  if tq31c_f=1 then rtq31c_f=.S;
end;
* use fyesno format for all of above rtq31 variables;

** SKIP PATTERN RECODES FOR TQ32;
rtq32a_a=2-tq32a_a;
rtq32a_b=2-tq32a_b;
rtq32a_c=2-tq32a_c;
rtq32a_d=2-tq32a_d;
rtq32b_a=2-tq32b_a;
rtq32b_b=2-tq32b_b;
rtq32b_c=2-tq32b_c;
rtq32b_d=2-tq32b_d;
rtq32b_e=2-tq32b_e;
rtq32b_f=2-tq32b_f;
if max(tq32a_b,tq32a_c,tq32a_d)=1 then rtq32a_a=2;
if rtq32a_a=1 then do;
  if tq32b_a=1 then rtq32b_a=.S;
  if tq32b_b=1 then rtq32b_b=.S;
  if tq32b_c=1 then rtq32b_c=.S;
  if tq32b_d=1 then rtq32b_d=.S;
  if tq32b_e=1 then rtq32b_e=.S;
  if tq32b_f=1 then rtq32b_f=.S;
end;

rtq32c_a=2-tq32c_a;
rtq32c_b=2-tq32c_b;
rtq32c_c=2-tq32c_c;
rtq32c_d=2-tq32c_d;
rtq32d_a=2-tq32d_a;
rtq32d_b=2-tq32d_b;
rtq32d_c=2-tq32d_c;
rtq32d_d=2-tq32d_d;
rtq32d_e=2-tq32d_e;
rtq32d_f=2-tq32d_f;
if max(tq32c_b,tq32c_c,tq32c_d)=1 then rtq32c_a=2;
if rtq32c_a=1 then do;
  if tq32d_a=1 then rtq32d_a=.S;
  if tq32d_b=1 then rtq32d_b=.S;
  if tq32d_c=1 then rtq32d_c=.S;
  if tq32d_d=1 then rtq32d_d=.S;
  if tq32d_e=1 then rtq32d_e=.S;
  if tq32d_f=1 then rtq32d_f=.S;
end;

rtq32e_a=2-tq32e_a;
rtq32e_b=2-tq32e_b;
rtq32e_c=2-tq32e_c;
rtq32e_d=2-tq32e_d;
rtq32f_a=2-tq32f_a;
rtq32f_b=2-tq32f_b;
rtq32f_c=2-tq32f_c;
rtq32f_d=2-tq32f_d;
rtq32f_e=2-tq32f_e;
```

```
rtq32f_f=2-tq32f_f;
if max(tq32e_b,tq32e_c,tq32e_d)=1 then rtq32e_a=2;
if rtq32e_a=1 then do;
  if tq32f_a=1 then rtq32f_a=.S;
  if tq32f_b=1 then rtq32f_b=.S;
  if tq32f_c=1 then rtq32f_c=.S;
  if tq32f_d=1 then rtq32f_d=.S;
  if tq32f_e=1 then rtq32f_e=.S;
  if tq32f_f=1 then rtq32f_f=.S;
end;
* use fyesno format for all of above rtq32 variables;

** REORDERING LEVELS OF TQ33;
else if tq33 in (1,6) then rtq33=tq33;
else if tq33=3 then rtq33=2;
else if tq33=5 then rtq33=3;
else if tq33=2 then rtq33=4;
else if tq33=4 then rtq33=5;
* use frtq33_ format for rtq33;

** SKIP PATTERN RECODES FOR TQ34;
if tq34a=. then do;
  rtq34b=.S; rtq34a=.N;
end;
else if tq34a=1 then do;
  rtq34a=tq34a;rtq34b=5; ** category 5 = not applicable;
end;
else if tq34a=2 then do;
  rtq34a=tq34a;rtq34b=tq34b;
  if tq34b=. then rtq34b=4; ** category 4 = unspecified;
end;
* use fyesno format for rtq34a;
* use frtq34b format for rtq34b;

** SKIP PATTERN RECODES FOR TQ38;
******NOTE: Following assumes TQ38B has been recoded as separate items;
if tq38a=. then do;
  if tq38b_1>=0 then rtq38b_1=.S;
  if tq38b_2>=0 then rtq38b_2=.S;
  if tq38b_3>=0 then rtq38b_3=.S;
  if tq38b_4>=0 then rtq38b_4=.S;
  if tq38b_5>=0 then rtq38b_5=.S;
end;
else if tq38a>1 then do;
  rtq38b_1=tq38b_1;
  rtq38b_2=tq38b_2;
  rtq38b_3=tq38b_3;
  rtq38b_4=tq38b_4;
  rtq38b_5=tq38b_5;
end;
else if tq38a=1 then do;
  if rtq38b_1=1 then rtq38b_1=.S;else rtq38b_1=3; ** category 3 = not applicable;
  if rtq38b_2=1 then rtq38b_2=.S;else rtq38b_2=3;
  if rtq38b_3=1 then rtq38b_3=.S;else rtq38b_3=3;
  if rtq38b_4=1 then rtq38b_4=.S;else rtq38b_4=3;
  if rtq38b_5=1 then rtq38b_5=.S;else rtq38b_5=3;
end;
* use fyesnona for rtq38b variables;

** SKIP PATTERN RECODES AND RE-STRUCTURING FOR TQ40;
if tq40a_b=0 then rtq40b=5;
else if tq40a_b=1 then do;
     rtq40b=(tq40b_a=1)+2*(tq40b_b=1)+3*(tq40b_c=1)+4*(tq40b_d=1);
     if rtq40b=0 then rtq40b=.N;
```

```
     if sum(tq40b_a,tq40b_b,tq40b_c,tq40b_d)>1 then rtq40b=.M;
end;
END;
* use frtq40b format for rtq40b;

*** create sample design variables, treating sample as having one stratum,
    with PSU=school;
apsu=input(studyid,4.);
astratum=1;

*** create general analysis variables;
overall=1;
popstat=input(popstatus,1.);
schtype=input(sch_type,1.);
if northsouth='N' then region=1;else if northsouth='S' then region=2;

*** create analysis variables from formaldehyde dataset;
if p1wt10_3>0 then do;
   sampmo=min(3,input(substr(startdatetime,1,1),1.)-3);
   if meas<=6 then ndind100=0;
   else if meas>6 then ndind100=100;
   if meas<=27 then thr1pct=0;
   else if meas>27 then thr1pct=100;
   if meas<=76 then thr2pct=0;
   else if meas>76 then thr2pct=100;
   startmo=input(substr(startdatetime,1,1),2.);
   startda=input(compress(substr(startdatetime,3,2),'/'),2.);
   stopmo=input(substr(stopdatetime,1,1),2.);
   stopda=input(compress(substr(stopdatetime,3,2),'/'),2.);
   startday=mdy(startmo,startda,2001);
   stopday=mdy(stopmo,stopda,2001);
   xposday=stopday-startday;
   wdxpos=.;
   if xposday>=1 then do;
     wdxpos=0;
     if weekday(startday) in (1,7) or startday=mdy(5,28,2001)
                      or startday=mdy(7,4,2001) then wdxpos=.5;
     if weekday(stopday) in (1,7) or stopday=mdy(5,28,2001)
                      or stopday=mdy(7,4,2001)then wdxpos+.5;
     do dayinc = startday+1 to stopday-1;
        if weekday(dayinc) in (1,7) or dayinc=mdy(5,28,2001)
                    or dayinc=mdy(7,4,2001)then wdxpos+1;
     end;
   end;
   pwdxpos=100*wdxpos/xposday;
   if pwdxpos>=0 then pwdxposc=2-(pwdxpos<25);  * use fyesno;
end;
if startday ne . then do;
     if mdy(4,1,2001)<=startday<=mdy(4,15,2001) then samptime=1;
     else if mdy(4,16,2001)<=startday<=mdy(4,30,2001) then samptime=2;
     else if mdy(5,1,2001)<=startday<=mdy(5,15,2001) then samptime=3;
     else if mdy(5,16,2001)<=startday<=mdy(5,31,2001) then samptime=4;
     else if mdy(6,1,2001)<=startday<=mdy(7,30,2001) then samptime=5;
end;   *use fsamptim;
format startday stopday mmddyy10.;

*** create analysis variables from TQ;
if p1wt10_1>0 THEN DO;
if tq5>=1 then geninst=(tq5=1)+2*(tq5>1); *use fyesno;
if tq8>=0 then numstud=(0<=tq8<=9)+2*(10<=tq8<=19)+3*(20<=tq8<=29)
         +4*(30<=tq8<=39)+5*(40<=tq8); * use fnumstud;
if tq10a=1 then carpet=1;
else if tq10b=1 or tq10c=1 then carpet=2;
else if tq10a=0 and tq10b=0 and tq10c=0 then carpet=3; *use fcarpet;
```

```
vinylfl=2-tq10e; * use fyesno;
_xxt=sum(tq10a,tq10b,tq10c,tq10d,tq10e,tq10f,tq10g,tq10h,tq10i);
_xxc=sum(tq10a,tq10b,tq10c);
if tq10a=1 and tq10e=0 then flrtyp=1;
else if _xxc=0 and tq10e=1 then flrtyp=2;
else if _xxc>=1 and tq10e=1 then flrtyp=3;
else if _xxc>=1 and tq10e=0 then flrtyp=4;
else if _xxt>=1 then flrtyp=5; *use fflrtyp;
if tq11>=1 then vinylwl=(tq11=2)+2*(tq11 ne 2); *use fyesno;
if rtq15 in (2,3) then windopen=2;
else if rtq15 in (4,5,6) then windopen=3;
else if rtq15=1 then windopen=1;          * use ffreq;
if rtq16b in (1,2) then dooropen=1;
else if rtq16b in (3,4,5) then dooropen=2;
else if rtq16b=6 then dooropen=3;          * use fdooropn;
preswood=2-max(tq19a_d,tq19b_d,tq19c_d); * use fyesno;
plastic=2-max(tq19a_e,tq19b_e,tq19c_e); * use fyesno;
preswod1=2-tq19a_d;* use fyesno;
preswod2=2-tq19b_d;* use fyesno;
preswod3=2-tq19c_d;* use fyesno;
if max(tq20b,tq20c,tq20d,tq20e,tq20f)=1 then newfurn=1;
else if tq20g=1 then newfurn=3;
else if tq20a=1 then newfurn=2; * use fyesnodk;
copiers=2-max(tq22a_b,tq22a_c,tq22a_d,tq22a_e,tq22a_f); * use fyesno;
if max(tq22b_c,tq22b_e)=1 then applian=1;
else if max(tq22b_b,tq22b_d,tq22b_f)=1 then applian=2;
else if tq22b_a=1 then applian=3; *use fapplian;
chempres=2-max(tq22c_b,tq22c_c,tq22c_d); * use fyesno;
paints=2-tq23a_b; * use fyesno;
paintpen=2-max(tq23a_b,tq23a_c,tq23a_d); * use fyesno;
pmarker=2-tq23a_c; * use fyesno;
wbmarker=2-tq23a_d; * use fyesno;
gluflu=2-max(tq23b_b,tq23b_c,tq23b_d); * use fyesno;
corflu=2-tq23b_c; * use fyesno;
glues=2-max(tq23b_b,tq23b_d); * use fyesno;
afresh=2-max(tq23c_b,tq23c_c,tq23c_d); * use fyesno;
afreshp=2-tq23c_c; * use fyesno;
afreshs=2-tq23c_d; * use fyesno;
candles=2-max(tq23d_b,tq23d_c,tq23d_d); * use fyesno;
airclean=2-max(tq23e_b,tq23e_c); * use fyesno;
airpurf=2-tq23e_b; * use fyesno;
if max(tq24a_c,tq24b_c,tq24c_c)=1 then pestuse=1;
else if max(tq24a_b,tq24b_b,tq24c_b)=1 then pestuse=2;
else if max(tq24a_a,tq24b_a,tq24c_a)=1 then pestuse=3; * use fpestuse;
pestspr=2-max(tq24a_b,tq24a_c); *use fyesno;
pestpow=2-max(tq24b_b,tq24b_c); *use fyesno;
pesttrp=2-max(tq24c_b,tq24c_c); *use fyesno;
claspref=tq25; * use fclaspre;
if tq26a_a=1 then temp=1;
else if tq26a_b=1 then temp=2;
else if tq26a_c=1 then temp=3; * use ftemp;
if tq26b_a=1 then humid=1;
else if tq26b_b=1 then humid=2;
else if tq26b_c=1 then humid=3; * use fhumid;
if tq26c_a=1 then cair=1;
else if tq26c_b=1 then cair=2;
else if tq26c_c=1 then cair=3; * use fcair;
if tq26d_a=1 then light=1;
else if tq26d_b=1 then light=2;
else if max(tq26d_c,tq26d_d,tq26d_e)=1 then light=3; * use flight;
if tq27a_a=1 then innoise=2;
else if max(tq27a_b,tq27a_c,tq27a_d,tq27a_e) then innoise=1; * use fyesno;
if tq27b_a=1 then outnoise=2;
else if max(tq27b_b,tq27b_c,tq27b_d,tq27b_e) then outnoise=1; * use fyesno;
```

```
if tq28>=1 then turnoff=3-min(tq28,2); * use fyesno;
if tq29a_c=1 then bugprob=1;
else if tq29a_b=1 then bugprob=2;
else if tq29a_a=1 then bugprob=3; * use fproblem;
if tq29b_c=1 then rodprob=1;
else if tq29b_b=1 then rodprob=2;
else if tq29b_a=1 then rodprob=3; * use fproblem;
mustodor=tq30a; * use fodor;
newodor=tq30d;  * use fodor;
if tq30a>=1 then rtq30a=3-min(tq30a,2);
if tq30b>=1 then rtq30b=3-min(tq30b,2);
if tq30c>=1 then rtq30c=3-min(tq30c,2);
if tq30d>=1 then rtq30d=3-min(tq30d,2);
if tq30e>=1 then rtq30e=3-min(tq30e,2);
if tq30f>=1 then rtq30f=3-min(tq30f,2);
if tq30g>=1 then rtq30g=3-min(tq30g,2);
if tq30h>=1 then rtq30h=3-min(tq30h,2);
if tq30i>=1 then rtq30i=3-min(tq30i,2);
if tq30j>=1 then rtq30j=3-min(tq30j,2);
if tq30k>=1 then rtq30k=3-min(tq30k,2);
if tq30L>=1 then rtq30L=3-min(tq30L,2); * use fyesno for all these;
if rtq31a_c=1 then const=1;
else if rtq31a_b=1 then const=2;
else if rtq31a_a=1 then const=3;
else if rtq31a_d=1 then const=4; * use fwatrprb;
othconst=min(rtq31b_b,rtq31b_c,rtq31b_d,rtq31b_e); * use fyesno;
if min(rtq32a_c,rtq32c_c,rtq32e_c)=1 then watrprb=1;
else if min(rtq32a_b,rtq32c_b,rtq32e_b)=1 then watrprb=2;
else if min(rtq32a_a,rtq32c_a,rtq32e_a)=1 then watrprb=3;
else if min(rtq32a_d,rtq32c_d,rtq32e_d)=1 then watrprb=4; * use fwatrprb;
if rtq32a_c=1 then watrlek=1;
else if rtq32a_b=1 then watrlek=2;
else if rtq32a_a=1 then watrlek=3;
else if rtq32a_d=1 then watrlek=4; * use fwatrprb;
if rtq32b_a=1
  and min(rtq32b_b,rtq32b_c,rtq32b_d,rtq32b_e,rtq32b_f)=2 then typlek=1;
else if rtq32b_a=2 and min(rtq32b_b,rtq32b_c,rtq32b_d,rtq32b_e,rtq32b_f)=1 then
typlek=2;
if rtq32b_a=1
  and min(rtq32b_b,rtq32b_c,rtq32b_d,rtq32b_e,rtq32b_f)=1 then typlek=3;
else if min(rtq32b_a,rtq32b_b,rtq32b_c,rtq32b_d,rtq32b_e,rtq32b_f)=2 then typlek=4;
   * use ftyplek;
if rtq32c_c=1 then watrstn=1;
else if rtq32c_b=1 then watrstn=2;
else if rtq32c_a=1 then watrstn=3;
else if rtq32c_d=1 then watrstn=4; * use fwatrprb;
if rtq32d_b=1
  and min(rtq32d_a,rtq32d_c,rtq32d_d,rtq32d_e,rtq32d_f)=2 then typstn=1;
else if rtq32d_d=1
  and min(rtq32d_a,rtq32d_b,rtq32d_c,rtq32d_e,rtq32d_f)=2 then typstn=2;
else if rtq32d_b=1 and rtq32d_d=1 then typstn=3;
else if min(rtq32d_a,rtq32d_c,rtq32d_e,rtq32d_f)=1 then typstn=4;
else if min(rtq32d_a,rtq32d_b,rtq32d_c,rtq32d_d,rtq32d_e,rtq32d_f)=2
     then typstn=4; *use ftypstn;
if rtq32e_c=1 then vismolt=1;
else if rtq32e_b=1 then vismolt=2;
else if rtq32e_a=1 then vismolt=3;
else if rtq32e_d=1 then vismolt=4; * use fwatrprb;
_moldloc=sum(2-rtq32f_a,2-rtq32f_b,2-rtq32f_c,2-rtq32f_d,2-rtq32f_e,
             2-rtq32f_f);
if _moldloc>=0 then moldloc=(_moldloc=0)+2*(1<=_moldloc<=2)+3*(_moldloc>2);
* use fmoldloc;
if rtq33<=3 then flswep=rtq33;
else if rtq33 in (4,5) then flswep=4;
```

```
else if rtq33=6 then flswep=5; * use fflswep;


if tq36>=1 then complan=1*(tq36=1)+2*(2<=tq36<=3)+3*(4<=tq36<=5); * use fcomplan;
if tq37>=1 then airqual=(1<=tq37<=2)+2*(tq37=3)+3*(4<=tq37<=5); * use fairqual;
if tq38a>=1 then absent=(tq38a=1)+2*(tq38a=2)+3*(3<=tq38a<=4); * use fabsent;
if tq38a=1 then cause=3;
else if tq38a>1 then do;
    if rtq38b_1=1 then cause=1;
       else if min(rtq38b_2,rtq38b_3,rtq38b_4)=1 then cause=2;
end;  * use fcause;
** SKIP PATTERN RECODES FOR TQ39;
%recod39(tq39a_n,tq39a_o,tq39a_f,tq39a_s,tq39a_i,nosesym,nosesymi);
%recod39(tq39b_n,tq39b_o,tq39b_f,tq39b_s,tq39b_i,thrtsym,thrtsymi);
%recod39(tq39c_n,tq39c_o,tq39c_f,tq39c_s,tq39c_i,eyessym,eyessymi);
%recod39(tq39d_n,tq39d_o,tq39d_f,tq39d_s,tq39d_i,skinsym,skinsymi);
%recod39(tq39e_n,tq39e_o,tq39e_f,tq39e_s,tq39e_i,headsym,headsymi);
%recod39(tq39f_n,tq39f_o,tq39f_f,tq39f_s,tq39f_i,drowsym,drowsymi);
%recod39(tq39g_n,tq39g_o,tq39g_f,tq39g_s,tq39g_i,dizzsym,dizzsymi);
%recod39(tq39h_n,tq39h_o,tq39h_f,tq39h_s,tq39h_i,lungsym,lungsymi);
%recod39(tq39i_n,tq39i_o,tq39i_f,tq39i_s,tq39i_i,stomsym,stomsymi);
if nosesym>=1 then do;
  _sfrq=(2<=nosesym<=3)+(2<=thrtsym<=3)+(2<=eyessym<=3)+(2<=skinsym<=3)
      +(2<=headsym<=3)+(2<=drowsym<=3)+(2<=dizzsym<=3)+(2<=lungsym<=3)
      +(2<=stomsym<=3);
  if _sfrq=0 then numsym=1;
  else if 1<=_sfrq<=2 then numsym=2;
  else if 3<=_sfrq then numsym=3;
end; * use fnumsym;
allerg=2-tq40a_a; * use fyesno;
lungprb=2-max(tq40a_b,tq40a_c); * use fyesno;
circprb=2-max(tq40a_d,tq40a_e); * use fyesno;
asmed=(rtq40b=1)+2*(2<=rtq40b<=4)+3*(rtq40b=5); * use fasmed;
if tq41>=1 then stuasma=min(tq41,5); * use fstuasma;
END;

*** create analysis variables from FMQ;

if p1wt10_2>0 or alpha_id in ('D','E','F')THEN DO;
if roomtype=1 and 1<=ftypeport<=3 then porttyp=ftypeport;
else if roomtype=1 and ftypeport=. then porttyp=3;
else if roomtype=2 and (ftypeport=3 or ftypeport=.) then porttyp=4;
else if roomtype=2 and 1<=ftypeport<=2 then porttyp=5; * use fporttyp;
clragec=2001-fyrconst;
clrage=(0<=clragec<=10)+2*(11<=clragec<=20)+3*(21<=clragec<=30)
           +4*(31<=clragec<=40)+5*(clragec>40); *use fclrage;
clragex=(0<=clragec<=3)+2*(4<=clragec<=5)+3*(6<=clragec<=10)
           +4*(11<=clragec<=15)+5*(clragec>15); *use fclragex;
if clragec>=0 then clrageu=1;else if clragec=. then clrageu=2; *use fclrageu;
renovat=2-max(fq29_a,fq29_b,fq29_c,fq29_d,fq29_e,fq29_f); * use fyesno;
renovmaj=2-max(fq29_a,fq29_e,fq29_f); * use fyesno;
renovele=2-max(fq29_b,fq29_c); * use fyesno;
renovruf=2-fq29_d; * use fyesno;
clrsiz=min(3,fq31); * use fclrsiz;
bldgfon=tq34a; * use fbldgfon;

if fq34_a in (1,2) then do;
  if fq34_c>0 then rfq34c =.S;
  else rfq34c=5; ** category 5 = not applicable or unspec;
end;
else if fq34_a=3 then do;
  rfq34c=fq34_c;
  if fq34_c=. then rfq34c=5;
end; *use frfq34c;
```

```
if fq36 in (1,2)then ruftyp=fq36;
else if fq36 in (3,6) then ruftyp=5;
else if fq36 in (4,5) then ruftyp=fq36-1; * use fruftyp;
lddock=2-max(fq39_a,fq39_b); *use fyesno;
dumpstr=2-fq39_d;  *use fyesno;
sprooms=2-max(fq39_g,fq39_h,fq39_i,fq39_j,fq39_c,fq39_e,fq39_f); *use fyesno;
pelpani=2-fq40_a; *use fyesno;
pelpano=2-fq40_b; *use fyesno;
pelpant=2-max(fq40_a,fq40_b);  *use fyesno;
pachvac=fq41; *use fyndkna;
if fq42=1 then ahuloc=3;
else if fq42 in (2,3,5,6) then ahuloc=fq42-1; *use fahuloc;
if fq45=1 then centac=1;
else if fq45 in (2,3,4) then centac=2;
else if fq45 in (5,6) then centac=fq45-1; *use fyndkna;
if fq46>0 then fanop=min(fq46,3); * use ffanop;
if fq48_a=. and fq48_b=. then dampset=.;
else dampset=(0<=fq48_a<=10)+2*(10<fq48_a<=20)+3*(20<fq48_a<=40)+
          4*(fq48_a>40)+5*(fq48_a<=.Z and fq48_b=1); * use fdampset;
plenopen=2-fq49_a; *use fyesno;
fglfilt=2-fq50_a; *use fyesno;
plefilt=2-fq50_b; *use fyesno;
hiefilt=2-fq50_c; *use fyesno;
if min(fq52_1,fq52_2,fq52_3,fq52_4)=2 then do;
  if fq52_5=1 then tcntl=4;
  else if fq52_6=1 then tcntl=5;
  else tcntl=.;
end;
else if fq52_2=1 and min(fq52_1,fq52_3,fq52_4)=2 then tcntl=1;
else if fq52_2=2 and min(fq52_1,fq52_3,fq52_4)=1 then tcntl=3;
else if fq52_2=1 and min(fq52_1,fq52_3,fq52_4)=1 then tcntl=2; * use ftcntl;
spheat=2-max(fq53_a,fq53_b,fq53_c,fq53_d,fq53_e,fq53_f); * use fyesno;
if max(fq56_a,fq56_b,fq56_c,fq56_d)=1 then watrdam=1;
else if fq56_f=1 then watrdam=2;
else if fq56_e=1 then watrdam=3; * use fyesnodk;
rufleak=2-fq56_a; * use fyesno;
if max(fq57_a,fq57_b,fq57_c,fq57_d,
       fq57_e,fq57_f,fq57_g,fq57_h)=1 then vismold=1;
else if fq57_j=1 then vismold=2;
else if fq57_i=1 then vismold=3; * use fyesnodk;
if fq59 in (2,3) then stdwatr=1;
else if fq59=1 then stdwatr=2;
else if fq59=4 then stdwatr=3; * use fyesnodk;
if max(fq60_a,fq60_b,fq60_c,fq60_d)=1 then newwood=1;
else if fq60_f=1 then newwood=2;
else if fq60_e=1 then newwood=3; * use fyesnodk;
newcarp=2-fq62_a; * use fyesno;
if fq62_g=1 then newfloor=3;
else newfloor=2-max(fq62_a,fq62_b,fq62_c,fq62_d,
       fq62_e,fq62_f); * use fyesnodk;
if max(fq63_a,fq63_b,fq63_c,fq63_d,
       fq63_e,fq63_f,fq63_g)=1 then pestusef=1;
else if fq63_i=1 then pestusef=2;
else if fq63_h=1 then pestusef=3; * use fyesnodk;
ccpest=2-fq63_a; * use fyesno;
sppest=2-fq63_d; * use fyesno;
if fq64_a=1 and fq64_b=1 then flubulb=3;
else if fq64_a=1 then flubulb=1;
else if fq64_b=1 then flubulb=2;
else if fq64_a=0 and fq64_b=0 then flubulb=4; * use fflubulb;
END;

*** labels for recoded variables and analysis variables;
label A_580='H2CO raw instrument response'
```

```
blank_ug='Average of lab blanks (ug)'
comments='Comments from lab'
froom='Facility Room Number'
intercept='H2CO calibration line: intercept'
   slope='H2CO calibration line: slope'
   location='School name from H2CO sampling'
   lotnum='Lot number for H2CO vials'
schtype='School type'
overall='All classrooms (=1)'
   popstat='School location'
   region='Geographic region'
   apsu='PSU for analysis'
   astratum='Stratum for analysis'
ndind100='100 if Formaldehyde detected (>6ppb)'
thr1pct='100 if Formaldehyde exceeds 27ppb'
thr2pct='100 if Formaldehyde exceeds 76ppb'
   startday='Start date of sampling period'
stopday='Stop date of sampling period'
   samptime='Time of formaldehyde sampling'
   xposday='Number days in sampling period'
   wdxpos='# weekend/holidays in sampling period'
   pwdxpos='% weekend/holidays in sampling period'
   pwdxposc='<25% weekend/holidays in samp period'
rtq15='How often open windows for ventilation'
rtq16a='Door directly to outside'
rtq16b='How often outside door is open'
rtq18b='Thermostat adjustment'
   rtq30a='Musty odor at times'
   rtq30b='Cleaning products odor at times'
   rtq30c='Vehicle exhaust odor at times'
   rtq30d='New carpet/furniture odor at times'
   rtq30e='Fresh paint odor at times'
   rtq30f='Cooking odor at times'
   rtq30g='Pesticide odor at times'
rtq30h='Asphalt/tar odor at times'
   rtq30i='Tobacco smoke odor at times'
   rtq30j='Trash/dumpster odor at times'
   rtq30k='Sewer/compost odor at times'
   rtq30L='Fire/smoke odor at times'
rtq31a_a='Construction - When - Never'
rtq31a_b='Construction - When - Prior'
rtq31a_c='Construction - When - Current'
rtq31a_d='Construction - When - DK'
rtq31b_a='Construction - Where- classroom'
rtq31b_b='Construction - Where- same bldg'
rtq31b_c='Construction - Where- nearby'
rtq31b_d='Construction - Where- outdoors'
rtq31b_e='Construction - Where- other'
rtq31c_a='Construction - Type- painting'
rtq31c_b='Construction - Type- carpentry'
rtq31c_c='Construction - Type- plumbing'
rtq31c_d='Construction - Type- flooring'
rtq31c_e='Construction - Type- roofing'
rtq31c_f='Construction - Type- other'
rtq32a_a='Water leak/flood - never'
rtq32a_b='Water leak/flood - prior'
rtq32a_c='Water leak/flood - current'
rtq32a_d='Water leak/flood - DK'
rtq32b_a='Water leak/flood - roof'
rtq32b_b='Water leak/flood - window'
rtq32b_c='Water leak/flood - sink/toilet'
rtq32b_d='Water leak/flood - sprinkler'
rtq32b_e='Water leak/flood - plumbing'
rtq32b_f='Water leak/flood - other type'
```

```
rtq32c_a='Water stains - never'
rtq32c_b='Water stains - prior'
rtq32c_c='Water stains - current'
rtq32c_d='Water stains - DK'
rtq32d_a='Water stains - walls'
rtq32d_b='Water stains - ceiling'
rtq32d_c='Water stains - window sills'
rtq32d_d='Water stains - floor/carpet'
rtq32d_e='Water stains - furniture'
rtq32d_f='Water stains - other'
rtq32e_a='Visible mold - never'
rtq32e_b='Visible mold - prior'
rtq32e_c='Visible mold - current'
rtq32e_d='Visible mold - DK'
rtq32f_a='Visible mold - walls'
rtq32f_b='Visible mold - ceiling'
rtq32f_c='Visible mold - window sills'
rtq32f_d='Visible mold - floor/carpet'
rtq32f_e='Visible mold - furniture'
rtq32f_f='Visible mold - other'
rtq34a='Adequate custodial services'
rtq34b='Needed custodial services'
rtq38b_1='Absent due to flu/cold'
rtq38b_2='Absent due to allergies'
rtq38b_3='Absent due to asthma'
rtq38b_4='Absent due to other respiratory'
rtq38b_5='Absent due to other reasons'
rtq40b='Freq of asthma medication'
rtq33='Freq of sweeping/vacuuming'
geninst='General instruction classroom'
   numstud='Typical number students in class'
   flrtyp='Type of flooring'
carpet='Carpeted classroom'
vinylfl='Vinyl/linoleum floor'
vinylwl='Vinyl tackable wallboard'
windopen='Open windows'
dooropen='Open external door'
preswood='Pressed wood furniture'
   plastic='Plastic furniture'
preswod1='Pressed wood table/desks'
preswod2='Pressed wood bookcases'
preswod3='Pressed wood cabinets'
newfurn='New furnishings this school year'
   copiers='Copiers present in room'
   applian='Type appliances in room'
chempres='Chemicals present in room'
   paintpen='Paints/pens used'
paints='Oil/acrylic paints used'
pmarker='Permanent marker/pen used'
wbmarker='Whiteboard marker used'
gluflu='Glues/fluids used'
corflu='Correction fluid used'
glues='Epoxy/rubber cement used'
afresh='Air freshener used'
afreshp='Air freshener used-plug-in'
afreshs='Air freshener used-spray'
   candles='Candles used in room'
   airclean='Air cleaner used in room'
const='Construction activity this yr'
watrprb='Water problems this yr'
complan='No. teacher complaints this yr'
   airqual='Teacher air quality rating'
   airpurf='Portable air purifier used'
pestuse='Pesticide use past yr (teacher)'
```

```
   pestspr='Pesticide spray use past yr'
pestpow='Pesticide powder use past yr'
pesttrp='Pesticide traps use past yr'
claspref='Teacher classroom preference'
temp='Classroom temperature'
humid='Classroom humidity'
cair='Classroom air'
light='Classroom light'
innoise='Disruptive inside noise'
outnoise='Disruptive outside noise'
   turnoff='Turn off heat/AC due to noise'
   bugprob='Bug problems in room'
   rodprob='Rodent problems in room'
mustodor='Musty odor'
newodor='New furnishings odor'
   othconst='Construction other than in room'
   moldloc='No. locations with mold'
   watrlek='Water leaks/flooding in room'
   typlek='Type of leak or flood'
   watrstn='Water stains in rooms'
   typstn='Type of water stain'
   vismolt='Visible mold in room (teacher)'
   flswep='Freq of floor cleaning'
absent='Days absent last 2 weeks'
   cause='Reasons for absence'
nosesym='Nose symptoms past 2 weeks'
thrtsym='Throat symptoms past 2 weeks'
eyessym='Eyes symptoms past 2 weeks'
skinsym='Skin symptoms past 2 weeks'
headsym='Headache/sinus pain past 2 weeks'
drowsym='Drowsiness past 2 weeks'
dizzsym='Dizziness/faintness past 2 weeks'
lungsym='Lung symptoms past 2 weeks'
stomsym='Upset stomach past 2 weeks'
nosesymi='Nose symptoms at home'
thrtsymi='Throat symptoms at home'
eyessymi='Eyes symptoms at home'
skinsymi='Skin symptoms at home'
headsymi='Headache/sinus pain at home'
drowsymi='Drowsiness at home'
dizzsymi='Dizziness/faintness at home'
lungsymi='Lung symptoms past at home'
stomsymi='Upset stomach at home'
   numsym='No. health symptoms past 2 weeks'
allerg='Chronic hay fever/allergies'
   lungprb='Chronic asthma/bronchitis'
   circprb='Chronic hypertension/heart disease'
   asmed='Inhaled asthma med past 2 weeks'
   stuasma='No. students taking asthma med'
porttyp='Type of Classroom'
clragec='Classroom age (yrs)'
clrage='Classroom age'
clragex='Classroom age'
   clrageu='Classroom age (known/unknown)'
   clrsiz='Classroom size (sq.ft.)'
rtq31b_a='In-room construction this yr'
renovat='Major renovations/additions'
renovmaj='Addition/wall/floor renovations'
renovele='HVAC or lighting renovations'
renovruf='Roof renovations'
tcntl='Thermostat control'
watrdam='Water damage past 3 yrs'
vismold='Visable mold past 3 yrs'
newwood='New pressed wood last yr'
```

```
       newcarp='New carpet past yr'
       newfloor='New flooring past yr'
       pestusef='Pesticide use past yr (FM)'
       sampmo='Month of formaldehyde sample'
       clrsiz='Classroom size (sq. ft.)'
       dampset='Outdoor damper min setting'
       bldgfon='Building foundation type'
          rfq34c='Floor Height (in)'
       ruftyp='Roof type'
          lddock='Load dock/parking/road in 50ft'
          dumpstr='Dumpster within 50ft'
          sprooms='Spec purpose rooms within 50ft'
          pelpani='Peeling paint inside'
          pelpano='Peeling paint outside'
          pelpant='Peeling paint in or out'
       pachvac='Packaged HVAC'
          ahuloc='Main AHU Location'
          fanop='HVAC supply fan operation'
       centac='Central cooling system'
       plenopen='Plenum open'
       fglfilt='HVAC fiberglass mesh filter'
          plefilt='HVAC pleated filter'
          hiefilt='HVAC high efficiency filter'
       spheat='Space heaters used'
          rufleak='Roof leaks last 3 yrs'
       stdwatr='Standing water within 50ft'
       ccpest='Crack/crevice pesticides last yr'
       sppest='Spray can pesticides last yr'
       flubulb='Fluorecent bulbs';
drop dayinc startmo startda stopmo stopda _rtq16b
     dummy eligible exposuredays fcomments
     fq_rmkey id numsch resrat_h resrat_t respsch
        sumw4ir sumw4pf sumw4pf1
        sumw4w3 sum_wt6 sum_wt8 sum_wt8pf time_stamp
     totreca3 totrec_3 samtyp _xxc _xxt _sfrq moldloc fq1- -fq26ah comb_cat;
run;
proc sort out=out.combin4;by astratum apsu;run;
proc contents;title ' ';run;
```

```
*** pgm in f:/clayton/crslabvr.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To create labels and formats for school level analyses;
***              Results are saved in OUT.SLABVAR;
***              Should be run before POPCHAR2;
************************************************************************;

options ls=150 ps=44 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/SCHLABL.RTF" STYLE=MINIMAL;

title ' ';

** DEFINE LEVELS FOR ANALYSIS VARIABLES;
** LEVELS ARE ASSUMED TO BE 1,2,... FOR USE IN SUDAAN;
data catfmt(keep=datsor varsor varnam lev cat)
     levfmt(keep=datsor varsor varnam lev1-lev7);
LENGTH DATSOR $ 1;
infile 'f:/clayton/slabvar.txt' missover pad;
input @2  varsor $char13.
      @15 varnam $char8.
      @27 lev1 $char10.
      @38 lev2 $char10.
      @51 lev3 $char10.
      @63 lev4 $char10.
      @74 lev5 $char10.
      @84 lev6 $char10.
      @95 lev7 $char10.;
varnam=upcase(varnam);
DATSOR=SUBSTR(VARSOR,1,1);
output levfmt;
if lev1 ne ' ' then do;lev=1;cat=lev1;output catfmt;end;
if lev2 ne ' ' then do;lev=2;cat=lev2;output catfmt;end;
if lev3 ne ' ' then do;lev=3;cat=lev3;output catfmt;end;
if lev4 ne ' ' then do;lev=4;cat=lev4;output catfmt;end;
if lev5 ne ' ' then do;lev=5;cat=lev5;output catfmt;end;
if lev6 ne ' ' then do;lev=6;cat=lev6;output catfmt;end;
if lev7 ne ' ' then do;lev=7;cat=lev7;output catfmt;end;
run;
proc sort data=levfmt;by varnam;run;
proc sort data=catfmt;by varnam lev;run;

** DEFINE LABELS FOR ANALYSIS VARIABLES;
data labls;
infile cards;
input @1 varnam $char8. @13 vardesc $char40.;
varnam=upcase(varnam);
vnum=_n_;
cards;
popstat     School location
region      Geographic region
schtype     School type
schage      School age (yrs)
p_calwor    Percent students on AFDC
p_meal      Percent students on Meal Assistance
pavgcost    Avg Student Expenditure
numport     Number of portable classrooms
numtrad     Number of traditional classrooms
numtot      Total number classrooms
hvaclog     HVAC maintenance logs kept
rfq15       Regular HVAC inspection/maintenance
fq15aa      HVAC I&M: outdr damper setting
```

```
fq15ab      HVAC I&M: coils cleaned
fq15ac      HVAC I&M: condensate pan/drain
fq15ad      HVAC I&M: filter replaced
fq15ae      HVAC I&M: exchanger checked
fq16a       Freq of trash removal
fq16b       Freq of vacuuming/sweeping/dusting
fq16c       Freq of carpet steam/dry cleaning
fq19a       Aware of EPA IAQ Tools for Schools Pgm
usetol      Awareness/use of EPA IAQ Tools
fq25        Any major complaints of envir cond
rfq25aa     Roof leak complaint last yr: Port
rfq25ab     Plumbing leak complaint last yr: Port
rfq25ac     Air/odor complaint last yr: Port
rfq25ad     Mold complaint last yr: Port
rfq25ae     Temperature complaint last yr: Port
rfq25af     Noise complaint last yr: Port
rfq25ba     Roof leak complaint last yr: Trad
rfq25bb     Plumbing leak complaint last yr: Trad
rfq25bc     Air/odor complaint last yr: Trad
rfq25bd     Mold complaint last yr: Trad
rfq25be     Temperature complaint last yr: Trad
rfq25bf     Noise complaint last yr: Trad
portcp      Port classroom envir complaints
tradcp      Trad classroom envir complaints
run;
proc sort;by varnam;run;
data out.slabvar;merge labls catfmt;by varnam;run;
data levfmt;merge labls levfmt;by varnam;
label varnam='Variable'
      vardesc='Description'
         varsor='Source'
         lev1='Level*1' lev2='Level*2' lev3='Level*3' lev4='Level*4'
         lev5='Level*5' lev6='Level*6' lev7='Level*7';
run;
proc sort data=levfmt;by vnum;run;
proc print split='*';id varnam;var vardesc lev1-lev7 varsor;
title 'SCHOOL-LEVEL ANALYSIS VARIABLES' ;
run;
ODS RTF CLOSE;
```

*** FOLLOWING IS THE SLABVAR.TXT FILE READ BY PRIOR PROGRAM;

O	schtype	Elem	Middle	High				
O	region	North	South					
O	popstat	Urban	Suburb	Rural				
O	p_calwor	<=25%	>25%					
O	p_meal	<=55%	>55%					
O	pavgcost	<=$5500	>$5500					
FQ6	schage	<=10yr	11-20yr	21-30yr	31-40yr	41-50yr	50+yr	Unspec
FQ7a	numport	1-10	11-20	21-30	>30			
FQ7b	numtrad	1-20	21-40	41-60	>60			
FQ7a,b	numtot	1-30	31-60	61-100	>100			
FQ11a-g	hvaclog	Yes	No	DK				
FQ15*	rfq15	Yes	No/NA					
FQ15aa	FQ15AA	Monthly	Quarterly	Yearly	>Year	Never	DK	NA
FQ15ab	FQ15AB	Monthly	Quarterly	Yearly	>Year	Never	DK	NA
FQ15ac	FQ15AC	Monthly	Quarterly	Yearly	>Year	Never	DK	NA
FQ15ad	FQ15AD	Monthly	Quarterly	Yearly	>Year	Never	DK	NA
FQ15ae	FQ15AE	Monthly	Quarterly	Yearly	>Year	Never	DK	NA
FQ16a	FQ16a	5/wk	3-4/wk	1-2/wk	1-2/mo	<1/mo		
FQ16b	FQ16b	5/wk	3-4/wk	1-2/wk	1-2/mo	<1/mo		
FQ16c	FQ16c	5/wk	3-4/wk	1-2/wk	1-2/mo	<1/mo		
FQ19a	FQ19a	Yes	No					
FQ19a,b	usetol	Aware/yes	Aware/no	Aware/DK	Unaware			
FQ25	FQ25	Yes	No	DK				
FQ25,FQ25aa	RFQ25aa	None	1	2-4	5-9	10+		
FQ25,FQ25ba	RFQ25ba	None	1	2-4	5-9	10+		
FQ25,FQ25ab	RFQ25ab	None	1	2-4	5-9	10+		
FQ25,FQ25bb	RFQ25bb	None	1	2-4	5-9	10+		
FQ25,FQ25ac	RFQ25ac	None	1	2-4	5-9	10+		
FQ25,FQ25bc	RFQ25bc	None	1	2-4	5-9	10+		
FQ25,FQ25ad	RFQ25ad	None	1	2-4	5-9	10+		
FQ25,FQ25bd	RFQ25bd	None	1	2-4	5-9	10+		
FQ25,FQ25ae	RFQ25ae	None	1	2-4	5-9	10+		
FQ25,FQ25be	RFQ25be	None	1	2-4	5-9	10+		
FQ25,FQ25af	RFQ25af	None	1	2-4	5-9	10+		
FQ25,FQ25bf	RFQ25bf	None	1	2-4	5-9	10+		
FQ25,aa-af	portcp	Yes	No	DK				
FQ25,ba-bf	tradcp	Yes	No	DK				

```
*** pgm in f:/clayton/crlabvar.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To create labels and formats for analysis programs;
***   NOTE: Must be run before all classroom-level
      analysis programs;
************************************************************************;

options ls=150 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="F:/CLAYTON/VARDEFS.RTF" STYLE=MINIMAL;
title ' ';
proc format;value fhind 0='P' 1='B' 2='F' 3='M';run;

** DEFINE LEVELS FOR SUBGROUP VARIABLES FOR VARIABLES HAVING UNIQUE FORMATS;
data catfmt(KEEP=VARNAM LEV CAT)
     VDEFS(KEEP=VARNAM LEV1-LEV6) ;
length lev1-lev6 $ 11;
infile cards missover pad;
input @2 varnam $char8.
      @11 lev1 $char11.
      @23 lev2 $char11.
      @35 lev3 $char11.
      @46 lev4 $char11.
      @57 lev5 $char11.
      @68 lev6 $char11.  ;
varnam=upcase(varnam);
OUTPUT VDEFS;
if lev1 ne ' ' then do;lev=1;cat=lev1;output CATFMT;end;
if lev2 ne ' ' then do;lev=2;cat=lev2;output CATFMT;end;
if lev3 ne ' ' then do;lev=3;cat=lev3;output CATFMT;end;
if lev4 ne ' ' then do;lev=4;cat=lev4;output CATFMT;end;
if lev5 ne ' ' then do;lev=5;cat=lev5;output CATFMT;end;
if lev6 ne ' ' then do;lev=6;cat=lev6;output CATFMT;end;
cards;
 roomtype Portable    Traditional
 overall  All
 schtype  Elem        Middle      High
 region   North       South
 popstat  Urban       Suburb      Rural
 sampmo   April       May         June/July
 carpet   Full        Partial     None
 dooropen Infreq      Freq        NA
 claspref Permanent   Portable    No_Opinion
 temp     Okay        Cold        Hot
 humid    Okay        Humid       Dry
 cair     Okay        Drafty      Stuffy
 light    Okay        Dim         Bright
 mustodor Never       Sometimes   Often
 newodor  Never       Sometimes   Often
 complan  0           1-5         >5
 absent   None        1-2_days    >2_days
 clrage   <=10yr      11-20yr     21-30yr     31-40yr     41+yr
 clragex  0-3yr       4-5yr       6-10yr      11-15yr     16+yr
 clrageu  Known       Unknown
 clrsiz   <600        600-1100    >1100
 tcntl    Teacher     Others      Both        DK          NA
 dampset  <=10%       11-20%      21-40%      >40%        Unknown
 rfq34c   <6          6-11        12-17       18+         NA/Unk
 bldgfon  <Grade      Slab        Raised_Flr
 ruftyp   Membrane    Composite   Tar/gravel  Metal       Other
 ahuloc   Wall        Roof        Floor/Othr  DK          NA
```

```
 flubulb  T8          T12         Both       No/DK
 fq37     Flat        Sloped      Both
 tq11     Sh_rock/pls vinyl_tack  cinderblk  other/DK
 rtq15    Unopenable  Rarely      Occasional Frequently Most_time  Always
 rtq16b   NA          Rarely      Occasional Frequently Most_time  Always
 rtq18b   Adjustable  Locked_up   Not_workingUnspecifiedNA/DK
 rtq34b   More_freq   More_effctv Both       UnspecifiedNA
 fanop    Auto        Always_on   Other/unspe
 tq37     Excellent   Good        Adequate   Poor       Very_poor
 airqual  Excel/Good  Adequate    Poor
 porttyp  Port-DSA    Port-DOH    Port-Unk   Trad       Trad?
 samptime Early_April Late_April  Early_May  Late_May   June/July
 applian  Stove/burnr Other       None
 numstud  0-9         10-19       20-29      30-39      >40
 flrtyp   Carpet_only Vinyl/linol Both       Carpet_combOther
 typlek   Roof        Other       Both       No_Leaks
 typstn   Ceiling     Floor       Both       Other      No_Stains
 moldloc  No mold     1-2_loc     3+loc
 flswep   Daily       2-3/wk      1/wk       Other      DK
 cause    Cold/flu    Allerg/resp NA
 numsym   None        1-2         3+
 asmed    Never       Some        NA
 stuasma  DK          None        1-2        3-5        6+
run;

** DEFINE LEVELS FOR SUBGROUP VARIABLES HAVING COMMON FORMATS;
data multfmt(KEEP=VARNAM LEV CAT)
     VDEFSX(KEEP=VARNAM LEV1-LEV6) ;
length cat LEV1-LEV6 $ 11;
ARRAY LL{6} $ LEV1-LEV6;
RETAIN LEV1-LEV6;
infile cards;
input fmt $char8. @11 varnam $char8.;
varnam=upcase(varnam);
DO II=1 TO 6;LL{II}=' ';END;
if fmt='ffreq' then do;
  lev=1;cat='Never';LEV1=CAT;output multfmt;
  lev=2;cat='Infrequent';LEV2=CAT;output multfmt;
  lev=3;cat='Frequent';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fsyma' then do;
  lev=1;cat='None';LEV1=CAT;output multfmt;
  lev=2;cat='Occasional';LEV2=CAT;output multfmt;
  lev=3;cat='Frequent';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fsymb' then do;
  lev=1;cat='Same/worse';LEV1=CAT;output multfmt;
  lev=2;cat='Improves';LEV2=CAT;output multfmt;
  lev=3;cat='NA';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fyesno' then do;
  lev=1;cat='Yes';LEV1=CAT;output multfmt;
  lev=2;cat='No';LEV2=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fyesnodk' then do;
  lev=1;cat='Yes';LEV1=CAT;output multfmt;
  lev=2;cat='No';LEV2=CAT;output multfmt;
  lev=3;cat='DK';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
```

```
end;
else if fmt='fyesnona' then do;
  lev=1;cat='Yes';LEV1=CAT;output multfmt;
  lev=2;cat='No';LEV2=CAT;output multfmt;
  lev=3;cat='NA';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fyndkna' then do;
  lev=1;cat='Yes';LEV1=CAT;output multfmt;
  lev=2;cat='No';LEV2=CAT;output multfmt;
  lev=3;cat='DK';LEV3=CAT;output multfmt;
  lev=4;cat='NA';LEV4=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fwatrprb' then do;
  lev=1;cat='Current';LEV1=CAT;output multfmt;
  lev=2;cat='Previous';LEV2=CAT;output multfmt;
  lev=3;cat='Never';LEV3=CAT;output multfmt;
  lev=4;cat='Unknown';LEV4=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
else if fmt='fproblem' then do;
  lev=1;cat='Current';LEV1=CAT;output multfmt;
  lev=2;cat='Previous';LEV2=CAT;output multfmt;
  lev=3;cat='Never';LEV3=CAT;output multfmt;
  OUTPUT VDEFSX;
end;
cards;
fproblem  pestuse
fproblem  bugprob
fproblem  rodprob
fwatrprb  watrprb
fwatrprb  const
fwatrprb  watrlek
fwatrprb  watrstn
fwatrprb  vismolt
ffreq     windopen
fsyma     nosesym
fsyma     thrtsym
fsyma     eyessym
fsyma     skinsym
fsyma     headsym
fsyma     drowsym
fsyma     dizzsym
fsyma     lungsym
fsyma     stomsym
fsymb     nosesymi
fsymb     thrtsymi
fsymb     eyessymi
fsymb     skinsymi
fsymb     headsymi
fsymb     drowsymi
fsymb     dizzsymi
fsymb     lungsymi
fsymb     stomsymi
fyesno    pwdxposc
fyesno    tq17
fyesno    geninst
fyesno    vinylfl
fyesno    vinylwl
fyesno    preswod1
fyesno    preswod2
fyesno    preswod3
```

```
fyesno    preswood
fyesno    plastic
fyesno    copiers
fyesno    paintpen
fyesno    candles
fyesno    airclean
fyesno    pestspr
fyesno    pestpow
fyesno    pesttrp
fyesno    turnoff
fyesno    chempres
fyesno    paints
fyesno    pmarker
fyesno    wbmarker
fyesno    gluflu
fyesno    corflu
fyesno    glues
fyesno    afresh
fyesno    afreshp
fyesno    afreshs
fyesno    rtq31c_b
fyesno    othconst
fyesno    airpurf
fyesno    innoise
fyesno    outnoise
fyesno    rtq30a
fyesno    rtq30b
fyesno    rtq30c
fyesno    rtq30d
fyesno    rtq30e
fyesno    rtq30f
fyesno    rtq30g
fyesno    rtq30h
fyesno    rtq30i
fyesno    rtq30j
fyesno    rtq30k
fyesno    rtq30L
fyesno    rtq31b_a
fyesno    rtq31b_b
fyesno    allerg
fyesno    lungprb
fyesno    circprb
fyesno    renovat
fyesno    renovmaj
fyesno    renovele
fyesno    renovruf
fyesno    newcarp
fyesno    fq38
fyesno    lddock
fyesno    dumpstr
fyesno    sprooms
fyesno    pelpani
fyesno    pelpano
fyesno    pelpant
fyesno    plenopen
fyesno    fglfilt
fyesno    plefilt
fyesno    hiefilt
fyesno    spheat
fyesno    rufleak
fyesno    ccpest
fyesno    sppest
fyndkna   pachvac
```

```
fyndkna   centac
fyesnodk  tq18a
fyesnodk  newfurn
fyesnodk  vismold
fyesnodk  newwood
fyesnodk  watrdam
fyesnodk  newfloor
fyesnodk  pestusef
fyesnodk  stdwatr
fyesnodk  fq61
run;
data catfmt;
set catfmt multfmt;
run;
proc sort;by varnam lev;run;

** DEFINE LABELS FOR SUBGROUP VARIABLES;
data labls;
length datsor $ 1.;
infile cards;
input @1 hind 1. @2 varsor $13. @17 varnam $char8. @29 vardesc $char40.;
if hind=. then hind=0;
datsor=substr(varsor,1,1);
varnam=upcase(varnam);
VNUM=_N_;
cards;
3O              roomtype    Classroom type
1O              overall     All classrooms
1O              popstat     School location
1O              region      Geographic region
1O              schtype     School type
2H2CO data      sampmo      Month of formaldehyde sample
2H2CO data      samptime    Time of formaldehyde sample
2H2CO data      pwdxposc    <25% non-weekday in samp period
1TQ5            geninst     General instruction classroom
 TQ8            numstud     Typical number students in class
 TQ10a-i        flrtyp      Type of flooring
1TQ10a/b        carpet      Carpeted classroom
1TQ10e          vinylfl     Vinyl/linoleum floor
1TQ11           vinylwl     Vinyl tackable wallboard
 TQ11           tq11        Primary wall material
1TQ15           windopen    Open windows
 TQ15           rtq15       Freq of open windows
1TQ16b          dooropen    Open door to outside
 TQ16b          rtq16b      Freq of open exterior door
 TQ17           tq17        Air conditioning in room
 TQ18A          tq18a       Thermostat in room
 TQ18b          rtq18b      Thermostat adjustment
1TQ19           preswood    Pressed wood furniture
1TQ19a          preswod1    Pressed wood table/desks
1TQ19b          preswod2    Pressed wood bookcases
1TQ19c          preswod3    Pressed wood cabinets
 TQ19           plastic     Plastic furniture
1TQ20           newfurn     New furnishings this school yr
 TQ22a          copiers     Copiers present in room
1TQ22b          applian     Type appliances in room
1TQ22c          chempres    Chemical present in room
 TQ23a          paintpen    Paints/pens used
2TQ23a_b        paints      Oil/acrylic paints used
2TQ23a_c        pmarker     Permanent marker/pen used
2TQ23a_d        wbmarker    Whiteboard marker used
1TQ23b          gluflu      Glues/fluids used
2TQ23b_c        corflu      Correction fluid used
```

2TQ23b_b/d	glues	Epoxy/rubber cement used
1TQ23c	afresh	Air freshener used
2TQ23c_c	afreshp	Air freshener used - plug-in
2TQ23c_d	afreshs	Air freshener used - spray
TQ23d	candles	Candles used
TQ23e	airclean	Air cleaners used
TQ23e_b	airpurf	Portable air purifier used
TQ24	pestuse	Pesticide use past yr (teacher)
TQ24a	pestspr	Pesticide spray use past yr
TQ24b	pestpow	Pesticide powder use past yr
TQ24c	pesttrp	Pesticide trap use past yr
TQ25	claspref	Teacher classroom preference
TQ26a	temp	Classroom temperature
TQ26b	humid	Classroom humidity
TQ26c	cair	Classroom air
TQ26d	light	Classroom light
TQ27a	innoise	Disruptive inside noise
TQ27b	outnoise	Disruptive outside noise
TQ28	turnoff	Turn off heat/AC due to noise
TQ29a	bugprob	Bug problems in room
TQ29b	rodprob	Rodent problems in room
TQ30a	mustodor	Musty odor
1TQ30d	newodor	New furnishings odor
TQ30a	rtq30a	Musty odor at times
TQ30b	rtq30b	Cleaning products odor at times
TQ30c	rtq30c	Vehicle exhaust odor at times
TQ30d	rtq30d	New carpet/furniture odor at times
TQ30e	rtq30e	Fresh paint odor at times
TQ30f	rtq30f	Cooking odor at times
TQ30g	rtq30g	Pesticide odor at times
TQ30h	rtq30h	Asphalt/tar odor at times
TQ30i	rtq30i	Tobacco smoke odor at times
TQ30j	rtq30j	Trash/dumpster odor at times
TQ30k	rtq30k	Sewer/compost odor at times
TQ30l	rtq30L	Fire/smoke odor at times
1TQ31a	const	Construction activity this yr
1TQ31c_b	rtq31c_b	Carpentry activity this yr
1TQ31b_a	rtq31b_a	In-room construction this yr
1TQ31b_b-e	othconst	Other school construction this yr
TQ31b_b	rtq31b_b	Same building construction this yr
TQ32	watrprb	Evidence of water problems (teacher)
TQ32a	watrlek	Leak or flood in room
TQ32b	typlek	Type leak or flood
TQ32c	watrstn	Water stains in room
TQ32d	typstn	Type water stains
TQ32e	vismolt	Visible mold in room (teacher)
TQ32f	moldloc	No. locations with mold
TQ33	flswep	Freq of floor cleaning
TQ34a/b	rtq34b	Custodial services needed
1TQ36	complan	# teacher complaints in school yr
1TQ37	tq37	Overall air quality (teacher)
TQ37	airqual	Overall air quality (teacher)
TQ38a	absent	Days absent last 2 weeks
TQ38b	cause	Reason for absence
1TQ39a_n/o/f	nosesym	Nose symptoms past 2 weeks
1TQ39b_n/o/f	thrtsym	Throat symptoms past 2 weeks
1TQ39c_n/o/f	eyessym	Eyes symptoms past 2 weeks
TQ39d_n/o/f	skinsym	Skin symptoms past 2 weeks
TQ39e_n/o/f	headsym	Headache/sinus pain past 2 weeks
TQ39f_n/o/f	drowsym	Drowsiness past 2 weeks
TQ39g_n/o/f	dizzsym	Dizziness/faintness past 2 weeks
TQ39h_n/o/f	lungsym	Lung symptoms past 2 weeks
TQ39i_n/o/f	stomsym	Upset stomach past 2 weeks

```
1TQ39a_s/i      nosesymi    Nose symptoms at home
1TQ39b_s/i      thrtsymi    Throat symptoms at home
1TQ39c_s/i      eyessymi    Eyes symptoms at home
 TQ39d_s/i      skinsymi    Skin symptoms at home
 TQ39e_s/i      headsymi    Headache/sinus pain at home
 TQ39f_s/i      drowsymi    Drowsiness at home
 TQ39g_s/i      dizzsymi    Dizziness/faintness at home
 TQ39h_s/i      lungsymi    Lung symptoms at home
 TQ39i_s/i      stomsymi    Upset stomach at home
 TQ39           numsym      No. health symptoms past 2 weeks
 TQ40a_a        allerg      Chronic hay fever/allergies
 TQ40a_b/c       lungprb     Chronic asthma/bronchitis
 TQ40a_d/e      circprb     Chronic hypertension/heart disease
 TQ40a/b        asmed       Inhaled asthma med past 2 weeks
 TQ41           stuasma     No. students taking asthma med
 FtypePort      porttyp     Type of Classroom
1Fyrconst       clrage      Classroom age (yrs)
1Fyrconst       clragex     Classroom age (yrs)
1Fyrconst       clrageu     Classroom age (known/unknown)
1FQ29           renovat     Major renovations/additions
1FQ29_a/e/f     renovmaj    Addition/wall/floor renovations
1FQ29_b/c       renovele    HVAC or lighting renovations
1FQ29_d         renovruf    Roof renovations
1FQ31           clrsiz      Classroom size (sq. ft.)
 FQ34_a         bldgfon     Building foundation type
 FQ34c          rfq34c      Floor Height (in)
 FQ36           ruftyp      Roof type
 FQ37           fq37        Roof pitch
 FQ38           fq38        Suspended ceilings
 FQ39_a/b       lddock      Load dock/parking/road in 50ft
 FQ39_d         dumpstr     Dumpster within 50ft
 FQ39           sprooms     Spec purpose rooms within 50ft
 FQ40_a         pelpani     Peeling paint inside
 FQ40_b         pelpano     Peeling paint outside
 FQ40_a/b       pelpant     Peeling paint in or out
 FQ41           pachvac     Packaged HVAC
 FQ42           ahuloc      Main AHU Location
 FQ45           centac      Central cooling system
 FQ46           fanop       HVAC supply fan operation
1FQ48           dampset     Outdoor damper min setting
 FQ49_a         plenopen    Plenum open
 FQ50_a         fglfilt     HVAC fiberglass mesh filter
 FQ50_b         plefilt     HVAC pleated filter
 FQ50_c         hiefilt     HVAC high efficiency filter
 FQ52           tcntl       Thermostat control
 FQ53_a-f       spheat      Space heaters used
 FQ56           watrdam     Water damage past 3 yrs (FM)
 FQ56_a         rufleak     Roof leaks last 3 yrs (FM)
 FQ57           vismold     Visible mold past 3 yrs (FM)
 FQ59           stdwatr     Standing water within 50ft
1FQ60           newwood     New pressed wood last yr
 FQ61           fq61        Paint/caulk/seal last yr
1FQ62_a         newcarp     New carpet past yr
1FQ62           newfloor    New flooring past yr
 FQ63           pestusef    Pesticide use past yr (FM)
 FQ63_a         ccpest      Crack/crevice pesticides last yr
 FQ63_d         sppest      Spray can pesticides last yr
 FQ64_a/b       flubulb     Fluorescent bulbs
run;
proc sort;by varnam;run;
data labvar;merge labls catfmt;by varnam;
LABEL DATSOR='Data*Source'
      varsor='Source'
```

```
      varnam='Variable'
         vardesc='Description'
         hind='Analysis*Type'
         CAT='Category';
run;
proc sort out=out.labvar;by varnam lev;run;

*** print tables showing variables of interest;
DATA VDEFS;SET VDEFS VDEFSX;RUN;
PROC SORT;BY VARNAM;RUN;
DATA VDEFS;MERGE VDEFS(in=d1) LABLS(in=d2);BY VARNAM;
if not(d1 and d2) then do;file log;put _all_;end;
if not(first.varnam and last.varnam) then do;file log;put _all_;end;
LABEL DATSOR='Data*Source'
      varsor='Source'
      varnam='Variable'
         vardesc='Description'
         hind='Analysis*Type'
         lev1='Level 1'
         lev2='Level 2'
         lev3='Level 3'
         lev4='Level 4'
         lev5='Level 5'
      lev6='Level 6';
RUN;
PROC SORT;BY VNUM;RUN;


PROC PRINT split='*';
ID VARNAM;var VARDESC LEV1-LEV6 varsor hind;
TITLE 'CLASSROOM-LEVEL ANALYSIS VARIABLES';
FORMAT VARSOR $CHAR13. VARNAM $CHAR8. VARDESC $CHAR40.
 LEV1-LEV6 $CHAR11. HIND FHIND.;
RUN;

ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/RESPRATE.sas;
*** modified 12/10/2001;
************************************************************************
***   PURPOSE: To calculate response rates;
*** USES COMBIN4 FILE AND SCHOOL1 FILES;
************************************************************************;
options ls=130 ps=44 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
ODS RTF FILE="F:/CLAYTON/RESP_RAT.RTF" STYLE=MINIMAL;
/*
proc contents data=out.school1;run;
*/

** TITLE2 'NOTE WEIGHTED AND WEIGHTED RATES ARE THE SAME BECAUSE';
** TITLE3 'P1WT4 AND P1WT4PF1 ARE CONSTANTS';

proc format;
value fvarnam 0='Overall'
              1='School Type'
              2='School Location'
                      3='Geographic Region'
                      4='% AFDC'
                      5='% Meal Assist'
                      6='Per Student Expend'
                      7='Room Type';
value flev 1=' '
 71='Port' 72='Trad'
 11='Elem' 12='Middle' 13='High'
 31='North' 32='South'
 21='Urban' 22='Suburb' 23='Rural'
 41='<=25%' 42='>25%'
 51='<=55%' 52='>55%'
 61='<=$5500' 62='>$5500';
run;

data aaa;set out.school1;
keep resquex p1wt6 p1wt3 p1wt4
     p1wt6fac i_f
     p1wt6pf1 respf1 p1wt4pf1
     i3 i4 i6 i6fac i6pf1 i4pf1
     p1wt3pf1
     a1n a1d a2n a2d a3n a3d
      schtype popstat region studyid
     p_calwor p_meal pavgcost;

p1wt3pf1=p1wt3*i_f;
i6=(p1wt6>0);           if i6=0 then i6=.;
i3=(p1wt3>0);           if i3=0 then i3=.;
i4=(p1wt4>0);           if i4=0 then i4=.;
i6fac=(p1wt6fac>0);     if i6fac=0 then i6fac=.;
i6pf1=(p1wt6pf1>0);     if i6pf1=0 then i6pf1=.;
i4pf1=(p1wt4pf1>0);     if i4pf1=0 then i4pf1=.;
a1n=i6*p1wt4;
a1d=i3*p1wt4;
a2n=i6fac*p1wt4;
a2d=i4*p1wt4;
a3n=i6pf1*p1wt4pf1;
a3d=i4pf1*p1wt4pf1;
run;

proc means data=aaa n sum noprint;
var resquex p1wt6 p1wt3 p1wt4
     p1wt6fac i_f
```

```
     p1wt6pf1 respf1 p1wt4pf1
     i3 i4 i6 i6fac i6pf1 i4pf1
     p1wt3pf1 a1n a1d a2n a2d a3n a3d;
output out=ssss(drop=_type_ _freq_) sum(a1n a1d a2n a2d a3n a3d)=a1n a1d a2n a2d a3n a3d
                  n(a1n a1d a2n a2d a3n a3d)=n1n n1d n2n n2d n3n n3d;
run;

proc means data=aaa n sum noprint;
class schtype popstat region
      pavgcost;
ways 1;
var resquex p1wt6 p1wt3 p1wt4
     p1wt6fac i_f
     p1wt6pf1 respf1 p1wt4pf1
     i3 i4 i6 i6fac i6pf1 i4pf1
     p1wt3pf1 a1n a1d a2n a2d a3n a3d;
output out=sssscc(drop=_type_ _freq_) sum(a1n a1d a2n a2d a3n a3d)=a1n a1d a2n a2d a3n
a3d
                  n(a1n a1d a2n a2d a3n a3d)=n1n n1d n2n n2d n3n n3d;
run;
proc means data=aaa n sum noprint;
class p_calwor p_meal ;
ways 1;
var resquex p1wt6 p1wt3 p1wt4
     p1wt6fac i_f
     p1wt6pf1 respf1 p1wt4pf1
     i3 i4 i6 i6fac i6pf1 i4pf1
     p1wt3pf1 a1n a1d a2n a2d a3n a3d;
output out=sssscX(drop=_type_ _freq_) sum(a1n a1d a2n a2d a3n a3d)=a1n a1d a2n a2d a3n
a3d
                  n(a1n a1d a2n a2d a3n a3d)=n1n n1d n2n n2d n3n n3d;
run;
data ssss2;set ssss sssscc sssscX;
rra1=100*a1n/a1d;urra1=100*n1n/n1d;
rra2=100*a2n/a2d;urra2=100*n2n/n2d;
rra3=100*a3n/a3d;urra3=100*n3n/n3d;
label SCHTYPE='School*Type'
        POPSTAT='School*Location'
        REGION='Region'
      p_calwor='% AFDC'
        p_meal='% Meal*Assist'
      pavgcost='Per*Student*Expend'
        rra1='School*Level*Response*Rate'
      rra2='FQ*School*Response*Rate'
      rra3='H2CO*Subsample*School*Response*Rate'
      n1d='No.*Eligible*Schools'
      n2d='No.*Eligible*Schools'
      n3d='No.*Eligible*Schools*H2CO*Subsample'
      n1n='No.*Responses*TQ or FQ*Data'
        n2n='No.*Responses*FQ Data'
      n3n='No.*Responses*H2CO*Data';
run;
data ssss3;set ssss2;
array x{*} schtype popstat region
     p_calwor p_meal pavgcost;
if _n_=1 then do;lev=1;varnam=0;end;
else do ivar=1 to dim(x);
 if x{ivar}>0 then do;
     lev=10*ivar+x{ivar};
     varnam=ivar;
  end;
end;
label varnam='Classification'
```

```
      lev='Category';
run;
proc sort;by varnam lev;run;
proc print split='*';
id varnam;by varnam notsorted;var lev n1d n1n rra1 n2n rra2 n3d n3n rra3;
format lev flev. varnam fvarnam.  rra1 rra2 rra3 5.1;
title 'NUMBER OF ELIGIBLE AND RESPONDING SCHOOLS AND SCHOOL LEVEL RESPONSE RATES';
run;

data bbb;set out.combin4;
keep p1wt8 i8 iabc resp1 p1wt10_1 i10_1
resp2 p1wt10_2 i10_2
resp3 p1wt10_3 i10_3
resp12 p1wt10_12 i10_12
resp13 p1wt10_13 i10_13
resp23 p1wt10_23 i10_23
resp123 p1wt10_123 i10_123
iabc i8 i8pf1 i10_1 i10_2 i10_3 i10_12 i10_13 i10_23 i10_123
b1d b3d b1n b2n b12n b3n b13n b23n b123n studyid alpha_id roomtype;
iabc=(alpha_id in ('A','B','C')); if iabc=0 then iabc=.;
i8=(p1wt8>0);         if i8=0 then i8=.;
i8pf1=(p1wt8pf1>0);    if i8pf1=0 then i8pf1=.;
i10_1=(p1wt10_1>0);   if i10_1=0 then i10_1=.;
i10_2=(p1wt10_2>0);   if i10_2=0 then i10_2=.;
i10_12=(p1wt10_12>0);   if i10_12=0 then i10_12=.;
i10_3=(p1wt10_3>0);   if i10_3=0 then i10_3=.;
i10_13=(p1wt10_13>0);   if i10_13=0 then i10_13=.;
i10_23=(p1wt10_23>0);   if i10_23=0 then i10_23=.;
i10_123=(p1wt10_123>0);   if i10_123=0 then i10_123=.;
b1n=i10_1*p1wt8;    b1d=i8*p1wt8;
b2n=i10_2*p1wt8;
b12n=i10_12*p1wt8;
b3n=i10_3*p1wt8pf1;    b3d=i8pf1*p1wt8pf1;
b13n=i10_13*p1wt8pf1;
b23n=i10_23*p1wt8pf1;
b123n=i10_123*p1wt8pf1;
run;
proc sort;by studyid alpha_id;run;
proc sort data=aaa;by studyid;run;
data bbb;merge aaa bbb(in=bbbb1);by studyid;if bbbb1;run;
proc means n sum NOPRINT DATA=BBB;
var p1wt8 i8 iabc resp1 p1wt10_1 i10_1
resp2 p1wt10_2 i10_2
resp3 p1wt10_3 i10_3
resp12 p1wt10_12 i10_12
resp13 p1wt10_13 i10_13
resp23 p1wt10_23 i10_23
resp123 p1wt10_123 i10_123
iabc i8 i8pf1 i10_1 i10_2 i10_3 i10_12 i10_13 i10_23 i10_123
b1d b3d b1n b2n b12n b3n b13n b23n b123n;
output out=cccc(drop=_type_ _freq_)
                sum(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    b1d b3d b1n b2n b12n b3n b13n b23n b123n
                  n(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    m1d m3d m1n m2n m12n m3n m13n m23n m123n;

proc means n sum NOPRINT DATA=BBB;
class schtype popstat region
     pavgcost roomtype;
ways 1;
var p1wt8 i8 iabc resp1 p1wt10_1 i10_1
resp2 p1wt10_2 i10_2
resp3 p1wt10_3 i10_3
```

```
resp12 p1wt10_12 i10_12
resp13 p1wt10_13 i10_13
resp23 p1wt10_23 i10_23
resp123 p1wt10_123 i10_123
iabc i8 i8pf1 i10_1 i10_2 i10_3 i10_12 i10_13 i10_23 i10_123
b1d b3d b1n b2n b12n b3n b13n b23n b123n;
output out=cccc1(drop=_type_ _freq_)
                sum(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    b1d b3d b1n b2n b12n b3n b13n b23n b123n
                  n(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    m1d m3d m1n m2n m12n m3n m13n m23n m123n;
run;
proc means n sum NOPRINT DATA=BBB;
class p_calwor p_meal;
ways 1;
var p1wt8 i8 iabc resp1 p1wt10_1 i10_1
resp2 p1wt10_2 i10_2
resp3 p1wt10_3 i10_3
resp12 p1wt10_12 i10_12
resp13 p1wt10_13 i10_13
resp23 p1wt10_23 i10_23
resp123 p1wt10_123 i10_123
iabc i8 i8pf1 i10_1 i10_2 i10_3 i10_12 i10_13 i10_23 i10_123
b1d b3d b1n b2n b12n b3n b13n b23n b123n;
output out=cccc1X(drop=_type_ _freq_)
                sum(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    b1d b3d b1n b2n b12n b3n b13n b23n b123n
                  n(b1d b3d b1n b2n b12n b3n b13n b23n b123n)=
                    m1d m3d m1n m2n m12n m3n m13n m23n m123n;
run;
data cccc2;set cccc cccc1 cccc1X;
rrb1=100*b1n/b1d;urrb1=100*m1n/m1d;
rrb2=100*b2n/b1d;urrb2=100*m2n/m1d;
rrb12=100*b12n/b1d;urrb12=100*m12n/m1d;
rrb3=100*b3n/b3d;urrb3=100*m3n/m3d;
rrb13=100*b13n/b3d;urrb13=100*m13n/m3d;
rrb23=100*b23n/b3d;urrb23=100*m23n/m3d;
rrb123=100*b123n/b3d;urrb123=100*m123n/m3d;
label rrb1='Clroom*TQ*Response*Rate'
      rrb2='Clroom*FQ*Response*Rate'
         rrb12='Clroom*TQ&FQ*Response*Rate'
         rrb3='Clroom*H2CO*Response*Rate'
         rrb13='Clroom*H2CO&TQ*Response*Rate'
         rrb23='Clroom*H2CO&FQ*Response*Rate'
         rrb123='Clroom*H2CO&*TQ&FQ*Response*Rate'
         Urrb1='Clroom*TQ*Response*Rate'
      Urrb2='Clroom*FQ*Response*Rate'
         Urrb12='Clroom*TQ&FQ*Response*Rate'
         Urrb3='Clroom*H2CO*Response*Rate'
         Urrb13='Clroom*H2CO&TQ*Response*Rate'
         Urrb23='Clroom*H2CO&FQ*Response*Rate'
         Urrb123='Clroom*H2CO&*TQ&FQ*Response*Rate'
         ROOMTYPE='Room*Type'
      SCHTYPE='School*Type'
         POPSTAT='School*Location'
         REGION='Region'
      p_calwor='% AFDC'
         p_meal='% Meal*Assist'
      pavgcost='Per*Student*Expend'
      m1d='No.*Eligible*Clrooms'
      m3d='No.*Eligible*Clrooms*H2CO*Subsample'
      m1n='No.*Responses*TQ Data'
         m2n='No.*Responses*FQ Data'
```

```
         m12n='No.*Responses*TQ & FQ*Data'
       m3n='No.*Responses*H2CO*Data'
         m13n='No.*Responses*H2CO*& TQ*Data'
         m23n='No.*Responses*H2CO*& FQ*Data'
         m123n='No.*Responses*H2CO*& TQ &*FQ Data';
run;
data cccc3;set cccc2;
array x{*} schtype popstat region
     p_calwor p_meal pavgcost roomtype;
if _n_=1 then do;lev=1;varnam=0;end;
else do ivar=1 to dim(x);
 if x{ivar}>0 then do;
     lev=10*ivar+x{ivar};
     varnam=ivar;
  end;
end;
label varnam='Classification'
      lev='Category';
run;
proc sort;by varnam lev;run;
proc print split='*';
id varnam;by varnam notsorted;var lev
     m1d m1n m2n m12n m3d m3n m13n m23n m123n;
format lev flev. varnam fvarnam.;
title 'NUMBER OF ELIGIBLE AND RESPONDING CLASSROOMS';
run;
proc print split='*';
id varnam;by varnam notsorted;var lev rrb1 rrb2 rrb12
     rrb3 rrb13 rrb23 rrb123;
format lev flev.  varnam fvarnam.
          rrb1 rrb2 rrb12 rrb3 rrb13 rrb23 rrb123 5.1;
TITLE 'WEIGHTED CONDITIONAL CLASSROOM LEVEL RESPONSE RATES';
run;
proc print split='*';
id varnam;by varnam notsorted;var lev urrb1 urrb2 urrb12
     urrb3 urrb13 urrb23 urrb123;
format lev flev. varnam fvarnam.
          urrb1 urrb2 urrb12 urrb3 urrb13 urrb23 urrb123 5.1;
TITLE 'UNWEIGHTED CONDITIONAL CLASSROOM LEVEL RESPONSE RATES';
run;
data ssss4;set ssss3;
output;
if varnam=0 then do;
   varnam=7;
   lev=71;output;
   lev=72;output;
end;
keep rra1 rra3 varnam lev;
run;
proc sort;by varnam lev;run;

data cccc4;merge cccc3 ssss4;by varnam lev;
*** COMBINED RRs;
crrb1=rra1*rrb1/100;
crrb2=rra1*rrb2/100;
crrb12=rra1*rrb12/100;
crrb3=rra3*rrb3/100;
crrb13=rra3*rrb13/100;
crrb23=rra3*rrb23/100;
crrb123=rra3*rrb123/100;
label crrb1='Clroom*TQ*Response*Rate'
      crrb2='Clroom*FQ*Response*Rate'
         crrb12='Clroom*TQ&FQ*Response*Rate'
```

```
         crrb3='Clroom*H2CO*Response*Rate'
         crrb13='Clroom*H2CO&TQ*Response*Rate'
         crrb23='Clroom*H2CO&FQ*Response*Rate'
         crrb123='Clroom*H2CO&*TQ&FQ*Response*Rate';
run;
proc sort;by varnam lev;run;
proc print split='*';
id varnam;by varnam notsorted;var lev crrb1 crrb2 crrb12
     crrb3 crrb13 crrb23 crrb123;
format lev flev. varnam fvarnam.
          crrb1 crrb2 crrb12 crrb3 crrb13 crrb23 crrb123 5.1;
TITLE 'WEIGHTED OVERALL CLASSROOM LEVEL RESPONSE RATES';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/popchar2.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To calculate summary percentages to characterize the pop of
               schools. Results are saved in OUT.SCHPCT;
*** USES SCHOOL1 FILE AS INPUT;
************************************************************************;

options ls=150 ps=44 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/POPCHAR2.RTF" STYLE=MINIMAL;

title ' ';
%let olist=popstat region schtype p_calwor p_meal pavgcost;
%let olev=3 2 3 2 2 2;
%let flist=schage numport numtrad numtot hvaclog rfq15
           fq15aa fq15ab fq15ac fq15ad fq15ae
           fq16a fq16b fq16c fq19a usetol fq25
           rfq25aa rfq25ba rfq25ab rfq25bb rfq25ac rfq25bc
           rfq25ad rfq25bd rfq25ae rfq25be rfq25af rfq25bf
           portcp tradcp;

%let flev=7 4 4 4 3 2
          7 7 7 7 7
          5 5 5 2 4 3
          5 5 5 5 5 5
          5 5 5 5 5 5
          3 3;


title 'Distribution of Schools';

data _ccc;   set out.school1;
swti=P1WT4;
swtf=P1WT6FAC;
keep apsu astratum swti swtf
     &olist &flist;
run;

** ANALYSIS BASED ON INTIAL SCHOOL-LEVEL SAMPLING WEIGHTS,
   RESULTS STORED IN _MEANSIS;
proc crosstab design=wr data=_ccc noprint;
   weight swti;
   nest astratum apsu;
   subgroup &olist;
   levels &olev;
   tables  &olist;
    output colper secol nsum wsum /filename=_meansis;
run;

** ANALYSIS BASED ON SCHOOL-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR FMQ RESPONSE,
   RESULTS STORED IN _MEANSFS;
proc crosstab design=wr data=_ccc noprint;
   weight swtf;
   nest astratum apsu;
   subgroup &flist;
   levels &flev;
   tables &flist;
   output colper secol nsum wsum /filename=_meansfs;
run;

** COMBINE RESULTS INTO ONE FILE AND RE-SRUCTURE IT FOR PRINTING;
```

```
data _means;set _meansis(in=ddd1)
                _meansfs(in=ddd2);
length varnam $ 8;
if ddd1 then tablen=1000+tableno;
else if ddd2 then tablen=2000+tableno;
array x{*} &olist &flist;
do ivar=1 to dim(x);
  if x{ivar}=0 then delete;
  else if x{ivar}>0 then do;
     lev=x{ivar};
     call vname(x{ivar},varnam);
     if nsum>10 then do;
        lcl=max(0,colper-2*secol);
           ucl=min(100,colper+2*secol);
        end;
        else do; lcl=.N;ucl=.N;end;
  end;
end;
keep tablen colper secol nsum wsum varnam lev lcl ucl;
run;
proc sort;by varnam lev;run;

** ADD LABELS TO RESULTS FILE;
data _means;merge _means(in=dddd1) out.slabvar(in=dddd2);
by varnam lev;
if dddd1;
label colper='Est.*Pop.*Percent'
      secol='Std.*Error'
         nsum='Sample*Size'
         wsum='Est.*Pop.*Count'
         lcl='Approx.*Lower*95%*Limit'
         ucl='Approx.*Upper*95%*Limit'
      vardesc='Description'
      cat='Category'
      datsor='Data*Source'
      varnam='Variable';
run;
proc sort OUT=OUT.SCHPCT;by tablen lev;run;
proc print split='*';id varnam vardesc;
by varnam vardesc notsorted;
var cat nsum colper lcl ucl;
format colper secol lcl ucl 5.1;
Title 'ESTIMATED DISTRIBUTIONS FOR SCHOOL-LEVEL VARIABLES';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/popchar1.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To calculate summary percentages to characterize the population
               of classrooms -- overall and by classroom type;
*** USES COMBIN4 FILE, WHICH CONTAINS ANALYSIS VAR AND RECODED VAR.;
*** USES LABVAR FILE (CREATED BY CRLABVAR) TO PROVIDE LABELS AND FORMATS
    FOR OUTPUT;
************************************************************************;
options ls=80 ps=55 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/POPCHAR1.RTF" STYLE=MINIMAL;


*** extract pertinent classroom level data and create analysis variables;
proc format;
value groomtyp 1='Port' 2='Trad' 0='All';
value $ fdatsor T='TQ    ' F='FQ    ' O=' ';
run;
%let olist=  popstat region schtype;

%let olev=3 2 3;

%let tqlist=geninst numstud flrtyp carpet vinylfl vinylwl tq11
windopen rtq15 dooropen rtq16b tq17 tq18a rtq18b
preswood preswod1 preswod2 preswod3 plastic
newfurn copiers applian chempres paintpen
gluflu afresh candles airclean airpurf
pestuse pestspr pestpow pesttrp
claspref temp humid cair light
innoise outnoise turnoff bugprob rodprob mustodor newodor
rtq30a rtq30b rtq30c rtq30d rtq30e rtq30f rtq30g rtq30h rtq30i
rtq30j rtq30k rtq30L
const rtq31c_b rtq31b_a othconst rtq31b_b
watrprb watrlek typlek watrstn typstn vismolt moldloc
flswep rtq34b complan tq37 airqual absent cause
nosesym nosesymi thrtsym thrtsymi eyessym eyessymi
skinsym skinsymi headsym headsymi drowsym drowsymi
dizzsym dizzsymi lungsym lungsymi stomsym stomsymi
numsym allerg lungprb circprb asmed stuasma;

%let tqlev=2 5 5 3 2 2 4
           3 6 3 6 2 3 5
           2 2 2 2 2
           3 2 3 2 2
           2 2 2 2 2
           3 2 2 2
           3 3 3 3 3
           2 2 2 3 3 3 3
           2 2 2 2 2 2 2 2 2
           2 2 2
           4 2 2 2 2
           4 4 4 4 5 4 3
           5 5 3 5 3 3 3
           3 3 3 3 3 3
           3 3 3 3 3 3
           3 3 3 3 3 3
           3 2 2 2 3 5 ;

%let fqlist=porttyp clrage clragex clrageu
  renovat renovmaj renovele renovruf clrsiz
  bldgfon rfq34c ruftyp fq37 fq38
```

```
  lddock dumpstr sprooms pelpani pelpano pelpant
  pachvac ahuloc centac fanop dampset
  plenopen fglfilt plefilt hiefilt
tcntl spheat watrdam rufleak vismold stdwatr
newwood fq61 newcarp newfloor pestusef
ccpest sppest flubulb;

%let fqlev=5 5 5 2
  2 2 2 2 3
  3 5 5 3 2
  2 2 2 2 2 2
  4 5 4 3 5
  2 2 2 2
  5 2 3 2 3 3
  3 3 2 3 3
  2 2 4;

data _ccc;   set out.combin4;
*** treat sample as having one stratum, with PSU=school;

cwtt=P1WT10_1;
cwtf=P1WT10_2;
cwti=P1WT8;
keep overall apsu astratum cwtt cwtf cwti roomtype
&olist &tqlist &fqlist;
run;

title 'Distribution of Classrooms';

** ANALYSIS BASED ON INITIAL CLASSROOM-LEVEL SAMPLING WEIGHTS,
   RESULTS SAVED IN _MEANSI;
proc crosstab design=wr data=_ccc noprint;
   weight cwti;
   nest astratum apsu;
   subgroup roomtype &olist;
   levels 2 &olev;
   tables (&olist)*roomtype;
        test chisq;
   output colper secol nsum wsum /filename=_meansi;
   output chisq chisqp /filename=_ctesti;
run;
data _meansi;merge _meansi _ctesti(keep=tableno chisq chisqp);
by tableno;
run;

** ANALYSIS BASED ON CLASSROOM-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR
   TQ RESPONSE, RESULTS SAVED IN _MEANST;
proc crosstab design=wr data=_ccc noprint;
   weight cwtt;
   nest astratum apsu;
   subgroup roomtype &tqlist;
   levels 2 &tqlev;
   tables (&tqlist)*roomtype;
        test chisq;
   output colper secol nsum wsum /filename=_meanst;
   output chisq chisqp /filename=_ctestt;
run;
data _meanst;merge _meanst _ctestt(keep=tableno chisq chisqp);
by tableno;
run;

** ANALYSIS BASED ON CLASSROOM-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR
   FMQ RESPONSE, RESULTS SAVED IN _MEANSF;
```

```
proc crosstab design=wr data=_ccc noprint;
   weight cwtf;
   nest astratum apsu;
   subgroup roomtype &fqlist;
  levels  2 &fqlev;
   tables (&fqlist)*roomtype;
   test chisq;
   output colper secol nsum wsum /filename=_meansf;
   output chisq chisqp /filename=_ctestf;
title 'Distribution of Classrooms';
run;
data _meansf;merge _meansf _ctestf(keep=tableno chisq chisqp);
by tableno;
run;
** COMBINE RESULTS INTO ONE FILE AND RE-STRUCTURE IT FOR PRINTING;
data _means;set _meansi(in=ddd1)
               _meanst(in=ddd2)
               _meansf(in=ddd3);
length varnam $ 8;
if ddd1 then tableno=1000+tableno;
else if ddd2 then tableno=2000+tableno;
else if ddd3 then tableno=3000+tableno;
array x{*} &olist &tqlist &fqlist;
do ivar=1 to dim(x);
  if x{ivar}=0 then delete;
  else if x{ivar}>0 then do;
     lev=x{ivar};
     call vname(x{ivar},varnam);
        lcl=max(0,colper-2*secol);
           ucl=min(100,colper+2*secol);
  end;
end;
if roomtype>0 then do;chisq=.; chisqp=.;end;
keep tableno chisq chisqp
    colper secol nsum wsum roomtype varnam lev lcl ucl;
run;
proc sort;by varnam lev;run;
** ADD LABELS TO RESULTS AND SAVE RESULTS IN OUT.CLASPCT;
data _means;merge _means(in=ddddd1) out.labvar(in=ddddd2);
by varnam lev;
if ddddd1;
label colper='Est.*Pop.*Percent'
      secol='Std.*Error'
         nsum='Sample*Size'
         wsum='Est.*Pop.*Count'
         lcl='Approx.*Lower*95%*Limit'
         ucl='Approx.*Upper*95%*Limit'
      roomtype='Classroom*Type'
      vardesc='Classification*Variable'
      cat='Category'
      datsor='Data*Source'
      chisqp='p-Value*Wald*Chi^2';
run;
proc sort OUT=OUT.CLASPCT;by tableno roomtype lev;run;
** PRINT RESULTS;
proc print split='*';id roomtype vardesc chisqp;
by roomtype vardesc chisqp notsorted;
var cat nsum colper lcl ucl;
format roomtype groomtyp. chisqp 6.2 colper secol lcl ucl 5.1;
title 'ESTIMATED DISTRIBUTIONS FOR CLASSROOM-LEVEL VARIABLES, OVERALL AND BY ROOM TYPE';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/wtdstat1.sas;
*** modified 12/19/2001;
************************************************************************
***   PURPOSE: To calculate summary stats for formaldehyde concentrations
***   NOTE: Use landscape, left hand margin of 1"
***   USES COMBIN4 FILE AS INPUT;
***   USES LABVAR FILE (CREATED BY CRLABVAR.SAS)
      TO PROVIDE LABELS AND FORMATS FOR OUTPUT;
************************************************************************;

options ls=150 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/POPESTS1.RTF" STYLE=MINIMAL;

title ' ';
proc format;
value froomtyp 0='All' 1='Port' 2='Trad';
run;
%let olist=overall popstat region schtype sampmo samptime pwdxposc;

%let olev=1 3 2 3 3 5 2;

%let tqlist=geninst carpet vinylfl vinylwl
windopen dooropen preswood preswod1 preswod2 preswod3
newfurn applian chempres paints pmarker wbmarker
gluflu corflu glues afresh afreshp afreshs newodor
const rtq31c_b rtq31b_a othconst
complan tq37
nosesym nosesymi thrtsym thrtsymi eyessym eyessymi;

%let tqlev=2 3 2 2
           3 3 2 2 2 2
           3 3 2 2 2 2
           2 2 2 2 2 2 3
           4 2 2 2
           3 5
           3 3 3 3 3 3 ;

%let fqlist=clrage clragex clrageu
renovat renovmaj renovele renovruf clrsiz dampset
newwood newcarp newfloor;
%let fqlev=5 5 2
                2 2 2 2 3 5
           3 2 3 ;

data _ccc;   set out.combin4;
if P1WT10_3>0;
cwt=P1WT10_3;
cwtt=P1WT10_13;
cwtf=P1WT10_23;

keep meas lnmeas ndind100 apsu astratum  cwt cwtt cwtf roomtype
     &olist &tqlist &fqlist thr1pct thr2pct;
run;

*** compute % measurable and mean concentration and associated std. errors;
*** USING INITIAL CLASSROOM LEVEL SAMPLING WEIGHTS;
proc descript noprint design=wr data=_ccc;
   weight cwt;
   nest astratum apsu;
   var ndind100 meas lnmeas thr1pct thr2pct;
   subgroup roomtype &olist;
```

```
   levels 2 &olev;
   tables roomtype*(&olist);
   output mean semean nsum wsum /filename=_means1 meanfmt=f10.6 semeanfmt=f10.6;
   run;

*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR TQ RESPONSE;
proc descript noprint design=wr data=_ccc;
   weight cwtt;
   nest astratum apsu;
   var ndind100 meas lnmeas thr1pct thr2pct;
   subgroup roomtype &tqlist;
   levels 2 &tqlev;
   tables roomtype*(&tqlist);
   output mean semean nsum wsum /filename=_means2 meanfmt=f10.6 semeanfmt=f10.6;
   run;

*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR FMQ RESPONSE;
proc descript noprint design=wr data=_ccc;
   weight cwtf;
   nest astratum apsu;
   var ndind100 meas lnmeas thr1pct thr2pct;
   subgroup roomtype &fqlist;
   levels 2 &fqlev;
   tables roomtype*(&fqlist);
   output mean semean nsum wsum /filename=_means3 meanfmt=f10.6 semeanfmt=f10.6;
   run;

*** compute selected percentiles and associated std. errors and confidence limits;
*** USING INITIAL CLASSROOM LEVEL SAMPLING WEIGHTS;
proc descript noprint design=wr data=_ccc;
   weight cwt;
   nest astratum apsu;
   var meas;
   subgroup roomtype &olist;
   levels 2 &olev;
   tables roomtype*(&olist);
   percentile 5 10 25 50 75 90 95;
   output qtile seqtile lowqtile upqtile
     /filename=_pct1 qtilefmt=f10.6 seqtilefmt=f10.6
     lowqtilefmt=f10.6  upqtilefmt=f10.6 ;
   run;
*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR TQ RESPONSE;
proc descript noprint design=wr data=_ccc;
   weight cwtt;
   nest astratum apsu;
   var meas;
   subgroup roomtype &tqlist;
   levels 2 &tqlev;
   tables roomtype*(&tqlist);
        percentile 5 10 25 50 75 90 95;
   output qtile seqtile lowqtile upqtile
     /filename=_pct2 qtilefmt=f10.6 seqtilefmt=f10.6
     lowqtilefmt=f10.6  upqtilefmt=f10.6 ;
   run;

*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR FMQ RESPONSE;
proc descript noprint design=wr data=_ccc;
   weight cwtf;
   nest astratum apsu;
   var meas;
   subgroup roomtype &fqlist;
   levels 2 &fqlev;
   tables roomtype*(&fqlist);
```

```
   percentile 5 10 25 50 75 90 95;
   output qtile seqtile lowqtile upqtile
     /filename=_pct3 qtilefmt=f10.6 seqtilefmt=f10.6
     lowqtilefmt=f10.6  upqtilefmt=f10.6 ;
   run;

*** re-structure means data set and determine approx. confidence limits;

data _means
      (keep=mean semean roomtype tablen varnam lev
      lomean himean nsum wsum rename=(nsum=n wsum=popsize))
     _pmeans(keep=mean semean roomtype tablen varnam lev
      lopcmeas hipcmeas rename=(mean=pcmeas semean=sepcmeas))
     _t1pmean(keep=mean semean roomtype tablen varnam lev
      lot1pct hit1pct rename=(mean=t1pct semean=set1pct))
        _t2pmean(keep=mean semean roomtype tablen varnam lev
      lot2pct hit2pct rename=(mean=t2pct semean=set2pct))
     _gmeans(keep=mean semean roomtype tablen varnam lev
      logm higm gm segm nsum wsum
       rename=(nsum=n wsum=popsize mean=lnmean semean=selnmean));;
set _means1(in=ddd1) _means2(in=ddd2) _means3(in=ddd3);
length varnam $ 8;
array x{*} &olist &tqlist &fqlist;
if ddd1 then tablen=1000+tableno;
else if ddd2 then tablen=2000+tableno;
else if ddd3 then tablen=3000+tableno;
do ivar=1 to dim(x);
**  if x{ivar}=0 then delete;
**  else if x{ivar}>0 then do;
  if x{ivar}>=0 then do;
   lev=x{ivar};
   call vname(x{ivar},varnam);
   if variable=1 then do;
     lopcmeas=max(0,mean-2*semean);
     hipcmeas=min(100,mean+2*semean);
        if semean=0 then do;lopcmeas=.N;hipcmeas=.N;end;
     output _pmeans;
   end;
   else if variable=2 then do;
     lomean=mean-2*semean;
     himean=mean+2*semean;
     output _means;
   end;
   else if variable=3 then do;
     logm=exp(mean-2*semean);
     higm=exp(mean+2*semean);
     gm=exp(mean);
     segm=exp(semean);
     output _gmeans;
   end;
   else if variable=4 then do;
     lot1pct=max(0,mean-2*semean);
     hit1pct=min(100,mean+2*semean);
        if semean=0 then do;lot1pct=.N;hit1pct=.N;end;
     output _t1pmean;
   end;
   else if variable=5 then do;
     lot2pct=max(0,mean-2*semean);
     hit2pct=min(100,mean+2*semean);
        if semean=0 then do;lot2pct=.N;hit2pct=.N;end;
     output _t2pmean;
   end;
  end;
```

```
end;
run;
proc sort data=_means;by varnam lev roomtype;run;

data _means;merge _means(in=dddd1) out.labvar(in=dddd2);
by varnam lev;
if dddd1;
run;

*** modify percentiles data set;

data _pctl;set _pct1(in=ddd1) _pct2(in=ddd2) _pct3(in=ddd3);
array x{*} &olist &tqlist &fqlist;
length varnam $ 8;
if ddd1 then tablen=1000+tableno;
else if ddd2 then tablen=2000+tableno;
else if ddd3 then tablen=3000+tableno;
do ivar=1 to dim(x);
  if x{ivar}>=0 then do;
   lev=x{ivar};
   call vname(x{ivar},varnam);
  end;
end;
drop &olist &tqlist &fqlist; ;
run;

*** combine output data sets;

proc sort data=_means;by tablen lev roomtype;run;
proc sort data=_pmeans;by tablen lev roomtype;run;
proc sort data=_t1pmean;by tablen lev roomtype;run;
proc sort data=_t2pmean;by tablen lev roomtype;run;
proc sort data=_gmeans;by tablen lev roomtype;run;
proc sort data=_pctl;by tablen lev roomtype pctiles;run;
data out.outpctl;merge _pctl _means _gmeans _pmeans _t1pmean _t2pmean;
by tablen lev roomtype;
array pp{7} p05 p10 p25 p50 p75 p90 p95;
array sepp{7} sep05 sep10 sep25 sep50 sep75 sep90 sep95;
array lopp{7} lop05 lop10 lop25 lop50 lop75 lop90 lop95;
array hipp{7} hip05 hip10 hip25 hip50 hip75 hip90 hip95;
retain p05 p10 p25 p50 p75 p90 p95
 sep05 sep10 sep25 sep50 sep75 sep90 sep95
 lop05 lop10 lop25 lop50 lop75 lop90 lop95
 hip05 hip10 hip25 hip50 hip75 hip90 hip95;

if first.roomtype then do jjj=1 to 7;
   pp{jjj}=.; sepp{jjj}=.; lopp{jjj}=.; hipp{jjj}=.;
end;
pp{pctiles}=qtile;
if seqtile ne . then sepp{pctiles}=seqtile;else sepp{pctiles}=.N;
if lowqtile ne . then lopp{pctiles}=lowqtile;else lopp{pctiles}=.N;
if upqtile ne . then hipp{pctiles}=upqtile;else hipp{pctiles}=.N;
if last.roomtype and vardesc ne ' ' then output;
keep p05 p10 p25 p50 p75 p90 p95
 sep05 sep10 sep25 sep50 sep75 sep90 sep95
 lop05 lop10 lop25 lop50 lop75 lop90 lop95
 hip05 hip10 hip25 hip50 hip75 hip90 hip95
 pcmeas sepcmeas mean semean n popsize
 t1pct set1pct lot1pct hit1pct
 t2pct set2pct lot2pct hit2pct
roomtype tablen varnam lev vardesc cat
lomean himean lopcmeas hipcmeas
gm segm logm higm lnmean selnmean;
```

```
label p05='estimated 5th percentile'
     p10='estimated 10th percentile'
     p25='estimated 25th percentile'
     p50='estimated 50th percentile'
     p75='estimated 75th percentile'
     p90='estimated 90th percentile'
     p95='estimated 95th percentile'
   sep05='std. error of 5th percentile'
   sep10='std. error of 10th percentile'
   sep25='std. error of 25th percentile'
   sep50='std. error of 50th percentile'
   sep75='std. error of 75th percentile'
   sep90='std. error of 90th percentile'
   sep95='std. error of 95th percentile'
   lop05='lower 95% CL for 5th percentile'
   lop10='lower 95% CL for 10th percentile'
   lop25='lower 95% CL for 25th percentile'
   lop50='lower 95% CL for 50th percentile'
   lop75='lower 95% CL for 75th percentile'
   lop90='lower 95% CL for 90th percentile'
   lop95='lower 95% CL for 95th percentile'
   hip05='upper 95% CL for 5th percentile'
   hip10='upper 95% CL for 10th percentile'
   hip25='upper 95% CL for 25th percentile'
   hip50='upper 95% CL for 50th percentile'
   hip75='upper 95% CL for 75th percentile'
   hip90='upper 95% CL for 90th percentile'
   hip95='upper 95% CL for 95th percentile'
   pcmeas='est. % of pop. > LOD (6ppb)'
   sepcmeas='std. error of % > LOD'
   lopcmeas='lower 95% CL for % > LOD'
   hipcmeas='upper 95% CL for % > LOD'
   mean='estimated mean'
   semean='std. error of mean'
   lomean='lower 95% CL for mean'
   himean='upper 95% CL for mean'
   t1pct='est. % of pop. > 27ppb'
   set1pct='std. error of % > 27ppb'
   lot1pct='lower 95% CL for % >27ppb'
   hit1pct='upper 95% CL for % >27ppb'
   t2pct='est. % of pop. > 76ppb'
   set2pct='std. error of % > 76ppb'
   lot2pct='lower 95% CL for % > 76ppb'
   hit2pct='upper 95% CL for % > 76ppb'
   gm='estimated geometric mean'
   segm='geometric std. error'
   logm='lower 95% CL for geometric mean'
   higm='upper 95% CL for geometric mean'
   n='number of observations'
   popsize='estimated population size';
run;

*** prepare for printing estimates and standard errors;

DATA PCTL;SET OUT.OUTPCTL;

LABEL n='n'
      popsize='Est. No.*Classrms'
      pcmeas='% >*LOD'
         t1pct='% >*27ppb'
         t2pct='% >*76ppb'
      mean='Mean'
```

```
         gm='Geom.*Mean'
         p05='P05'
         p10='P10'
         p25='P25'
      p50='P50'
         p75='P75'
         p90='P90'
         p95='P95'
         sepcmeas='% >*LOD'
         set1pct='% >*27ppb'
         set2pct='% >*76ppb'
      semean='Mean'
         segm='Geom.*Std.*Error'
         sep05='P05'
         sep10='P10'
         sep25='P25'
      sep50='P50'
         sep75='P75'
         sep90='P90'
         sep95='P95'
      ROOMTYPE='Room*Type'
         varnam='Variable Name'
         vardesc='Variable Description'
      cat='Category';
run;

*** print estimates;

proc print data=pctl  split='*';id vardesc cat;by vardesc cat notsorted;
var roomtype n popsize pcmeas t1pct t2pct mean gm p05 p10 p25
p50 p75 p90 p95;
format pcmeas  t1pct t2pct mean gm p05 p10 p25 p50 p75
p90 p95 6.1 popsize 6.
roomtype froomtyp. ;
title 'PARAMETER ESTIMATES CHARACTERIZING DISTRIBUTIONS OF FORMALDEHYDE LEVELS (ppb) IN
CALIFORNIA CLASSROOMS';
run;

*** print standard errors;

proc print data=pctl split='*';id vardesc cat;by vardesc cat notsorted;
var roomtype popsize sepcmeas set1pct set2pct semean
segm sep05 sep10 sep25 sep50 sep75 sep90 sep95;
format sepcmeas  set1pct set2pct semean
sep05 sep10 sep25 sep50 sep75 sep90 sep95 6.1 segm 6.2
popsize 6. roomtype froomtyp.;
title 'APPROXIMATE STANDARD ERRORS OF ESTIMATES';
run;

*** prepare for printing confidence interval estimates;

data climits;set out.outpctl;
keep roomtype varnam vardesc cat lev limit
     CLPCM CLT1P CLT2P CLMEAN CLGM CL05 CL10 CL25 CL50 CL75 CL90 CL95;
 LIMIT='Lower';CLPCM=LOPCMEAS;CLT1P=LOT1PCT;CLT2P=LOT2PCT;
 CLMEAN=LOMEAN;CL05=LOP05;CLGM=LOGM;
 CL10=LOP10;CL25=LOP25;CL50=LOP50;CL75=LOP75;CL90=LOP90;CL95=LOP95;OUTPUT;
 LIMIT='Upper';CLPCM=HIPCMEAS;CLT1P=HIT1PCT;CLT2P=HIT2PCT;
CLMEAN=HIMEAN;CL05=HIP05;CLGM=HIGM;
 CL10=HIP10;CL25=HIP25;CL50=HIP50;CL75=HIP75;CL90=HIP90;CL95=HIP95;OUTPUT;
LABEL clpcm='% >*LOD'
      clt1p='% >*27ppb'
         clt2p='% >*76ppb'
```

```
      clmean='Mean'
         clgm='Geom.*Mean'
         cl05='P05'
         cl10='P10'
         cl25='P25'
      cl50='P50'
         cl75='P75'
         cl90='P90'
         cl95='P95'
         varnam='Variable Name'
         vardesc='Variable Description'
      cat='Category'
      ROOMTYPE='Room*Type'
         limit='Conf.*Limit';
run;

*** print confidence interval estimates;

proc print split='*';id vardesc cat;by vardesc cat notsorted;
var roomtype limit CLPCM CLT1P CLT2P CLMEAN CLGM CL05 CL10 CL25 CL50 CL75 CL90 CL95;
format CLPCM CLT1P CLT2P CLMEAN CLGM CL05 CL10 CL25 CL50 CL75 CL90 CL95 6.1
 roomtype froomtyp.;
title 'APPROXIMATE 95% CONFIDENCE LIMITS';
run;

ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/wtdstatX.sas;
*** modified 12/06/2001;
************************************************************************
***   PURPOSE: To calculate summary stats for formaldehyde concentrations
***   NOTE: Use landscape, left hand margin of 1"
***   USES COMBIN4 FILE AS INPUT;
***   USES LABVAR FILE (CREATED BY CRLABVAR.SAS)
      TO PROVIDE LABELS AND FORMATS FOR OUTPUT;
************************************************************************;

options ls=150 ps=45 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/POPESTSX.RTF" STYLE=MINIMAL;

title ' ';
proc format;
value froomtyp 0='All' 1='Port' 2='Trad';
run;

data _ccc;   set out.combin4;
if P1WT10_3>0;
cwt=P1WT10_3;
cwtt=P1WT10_13;
cwtf=P1WT10_23;

keep meas lnmeas ndind100 apsu astratum  cwt cwtt cwtf roomtype
     &olist &tqlist &fqlist thr1pct thr2pct;
run;

*** compute % measurable and mean concentration and associated std. errors;
*** USING INITIAL CLASSROOM LEVEL SAMPLING WEIGHTS;
proc descript noprint design=wr data=_ccc;
   weight cwt;
   nest astratum apsu;
   var ndind100 thr1pct thr2pct meas lnmeas;
   subgroup roomtype;
   levels 2;
   tables roomtype;
   output mean semean nsum wsum /filename=_means1 meanfmt=f10.6 semeanfmt=f10.6;
   run;

*** compute selected percentiles and associated std. errors and confidence limits;
*** USING INITIAL CLASSROOM LEVEL SAMPLING WEIGHTS;
proc descript noprint design=wr data=_ccc;
   weight cwt;
   nest astratum apsu;
   var meas;
   subgroup roomtype;
   levels 2;
   tables roomtype;
   percentile 5 10 25 50 75 90 95;
   output qtile seqtile lowqtile upqtile
     /filename=_pct1 qtilefmt=f10.6 seqtilefmt=f10.6
     lowqtilefmt=f10.6  upqtilefmt=f10.6 ;
   run;

data aaM;set _means1;
keep v mm ss cll clu roomtype;
if variable =1 then do;
  v=-1;mm=nsum;ss=.;output;
  v=0;mm=round(wsum);ss=.;output;
end;
```

```
v=variable;
if 1<=v<=3 then do;
   mm=mean;ss=semean;cll=max(0,mean-2*semean);clu=min(100,mean+2*semean);
   mm=round(mm,.1);ss=round(ss,.1);cll=round(cll,.1);clu=round(clu,.1);
   output;
end;
else if variable=4 then do;
  mm=mean;ss=semean;cll=mean-2*semean;clu=mean+2*semean;
  mm=round(mm,.1);ss=round(ss,.1);cll=round(cll,.1);clu=round(clu,.1);
  output;
end;
else if variable=5 then do;
  mm=exp(mean);ss=exp(semean);cll=exp(mean-2*semean);clu=exp(mean+2*semean);
  mm=round(mm,.1);ss=round(ss,.01);cll=round(cll,.1);clu=round(clu,.1);
  output;
end;
data aaP;set _pct1;
keep v mm ss cll clu pctiles roomtype;
v=6;
mm=qtile;ss=seqtile;cll=lowqtile;clu=upqtile;
mm=round(mm,.1);ss=round(ss,.1);cll=round(cll,.1);clu=round(clu,.1);
run;
data aaa0(keep=v mm ss cll clu pctiles)
aaa1(keep=v mm ss cll clu pctiles
     rename=(mm=mm1 ss=ss1 cll=cll1 clu=clu1))
aaa2(keep=v mm ss cll clu pctiles
     rename=(mm=mm2 ss=ss2 cll=cll2 clu=clu2));
set aaM aaP;

if roomtype=0 then output aaa0;
if roomtype=1 then output aaa1;
if roomtype=2 then output aaa2;
run;
data aaa;merge aaa0 aaa1 aaa2;by v pctiles;
label v='Statistic'
      pctiles='_'
         mm='Estimate*for All*Clrooms'
         cll='Approx.*Lower*95% CL*for All*Clrooms'
         clu='Approx.*Upper*95% CL*for All*Clrooms'
         mm1='Estimate*for Port*Clrooms'
         cll1='Approx.*Lower*95% CL*for Port*Clrooms'
         clu1='Approx.*Upper*95% CL*for Port*Clrooms'
      mm2='Estimate*for Trad*Clrooms'
         cll2='Approx.*Lower*95% CL*for Trad*Clrooms'
         clu2='Approx.*Upper*95% CL*for Trad*Clrooms';
run;
proc format;
value fv -1='No. Obs' 0='Est. Pop. Size'
     1='% Pop. > LOD' 2='% Pop. > 27ppb' 3='% Pop. > 76ppb'
         4='Pop. Mean'
         5='Geom Mean'
              6='Percentile';
value fpt 1='5th' 2='10th' 3='25th' 4='50th' 5='75th' 6='90th' 7='95th';
proc print split='*' data=aaa;
id pctiles v;
var mm cll clu mm1 cll1 clu1 mm2 cll2 clu2;
format pctiles fpt. v fv. mm cll clu mm1 cll1 clu1 mm2 cll2 clu2 8.1;
title 'Table 3-z. Summary of Formaldehyde Levels';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/CDFPLOT.sas;
*** modified 12/28/2001;
************************************************************************
***   PURPOSE: To calculate weighted cumulative distribution function
               for formaldehyde concentrations, by classroom type;
***   NOTE: Use landscape, left hand margin of 1"
***   USES COMBIN4 FILE AS INPUT;
************************************************************************;

options ls=130 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:\clayton';

title ' ';
proc format;
value froomtyp 1='Port' 2='Trad' 3='Diff';
run;

data _ccc;   set out.combin4;
if P1WT10_3>0;
cwt=P1WT10_3;
keep meas   cwt  roomtype;
run;
*** prepare for plot of weighted distribution functions;

proc sort data=_ccc out=_ccc1;
by roomtype meas;
run;
proc means data=_ccc1 noprint sum;
by roomtype;
var cwt;
output out=ssss(keep=roomtype totwt) sum(cwt)=totwt;
run;
data _ccc1(keep=cumprob meas rename=(cumprob=cumprob1 meas=meas1))
_ccc2 (keep=cumprob meas rename=(cumprob=cumprob2 meas=meas2));
merge _ccc1 ssss;
by roomtype;
if first.roomtype then cumprob=0;
cumprob+cwt/totwt;
if roomtype=1 then output _ccc1;
else if roomtype=2 then output _ccc2;
run;
DATA _CCC1;SET _CCC1 _CCC2;
RUN;

*** set up annotations for plot;
data AAAA;
length text $ 12;
length style $ 8;
style='swiss   ';
xsys='2';ysys='2';position='C';
x=15;y=.8;text='Traditional';output;
x=35;y=.6;text='Portable';output;

x=80;y=.3;text='Portable';output;
x=100;y=.3;text='Traditional';output;
x=127;y=.3;text='All';output;
x=64;y=.25;text='Mean';output;
x=62;y=.20;text='Median';output;
x=52;y=.15;text='%Pop>27 ppb';output;
x=52;y=.10;text='%Pop>76 ppb';output;

x=85;y=.25;text='32.4';output;
x=105;y=.25;text='23.7';output;
```

```
x=125;y=.25;text='27.0';output;

x=85;y=.20;text='27.1';output;
x=105;y=.20;text='20.0';output;
x=125;y=.20;text='22.0';output;

x=85;y=.15;text='50.3';output;
x=105;y=.15;text='29.0';output;
x=125;y=.15;text='36.9';output;

x=85;y=.10;text=' 4.0';output;
x=105;y=.10;text=' 0.4';output;
x=125;y=.10;text=' 1.8';output;
run;

****  GOPTIONS FOR OUTPUTING TO LANDSCAPE Word  ***;

GOPTIONS RESET=ALL DEVICE=CGMOF97L colors=(black)
          GACCESS='SASGASTD>f:\clayton\cdfplot.cgm'
          GSFMODE=REPLACE
          FTEXT=SWISS HTEXT=1.2 LFACTOR=2 ROTATE=LANDSCAPE
          HBY=0 FBY=SWISS;

axis1 label=(rotate=0 angle=90 h=1.5 'Cumulative Probability')
  order=(0 to 1 by 0.1)
  minor=none
  value=(h=.8);
axis2 label=(j=c h=1.5 'Formaldehyde Concentration (ppb)')
  order=(0 to 140 by 20)
  minor=none
  value=(h=.8);

  symbol1 i=join line=1 width=3;
  symbol2 i=join line=2 width=3;

  proc gplot data=_ccc1;
  plot cumprob1*meas1=1 cumprob2*meas2=2
              /overlay nolegend skipmiss
               vaxis=axis1 haxis=axis2 href=27 76 annotate=AAAA;

RUN;
QUIT;
```

```
*** pgm in f:/clayton/wtdtest2.sas;
*** modified 12/11/2001;
************************************************************************
***   PURPOSE: To calculate summary stats for formaldehyde concentrations
***   NOTE: Use landscape, left hand margin of 1"
***   USES COMBIN4 FILE AS INPUT;
***   USES LABVAR FILE (CREATED BY CRLABVAR.SAS)
      TO PROVIDE LABELS AND FORMATS FOR OUTPUT;
************************************************************************;

options ls=85 ps=55 nocenter mprint nodate nonumber missing=' ';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/POPTES2.RTF" STYLE=MINIMAL;

title ' ';
%let olist=overall popstat region schtype sampmo samptime pwdxposc;

%let olev=1 3 2 3 3 5 2;

%let tqlist=geninst carpet vinylfl vinylwl
windopen dooropen preswood preswod1 preswod2 preswod3
newfurn applian chempres paints pmarker wbmarker
gluflu corflu glues afresh afreshp afreshs newodor
const rtq31c_b rtq31b_a othconst
complan tq37
nosesym nosesymi thrtsym thrtsymi eyessym eyessymi;

%let tqlev=2 3 2 2
           3 3 2 2 2 2
           3 3 2 2 2 2
           2 2 2 2 2 2 3
           4 2 2 2
           3 5
           3 3 3 3 3 3 ;

%let fqlist=clrage clragex clrageu
renovat renovmaj renovele renovruf clrsiz dampset
newwood newcarp newfloor;
%let fqlev=5 5 2
                2 2 2 2 3 5
           3 2 3 ;

data _ccc;   set out.combin4;
if P1WT10_3>0;
cwt=P1WT10_3;
cwtt=P1WT10_13;
cwtf=P1WT10_23;
thr1=1+thr1pct/100;
keep apsu astratum  cwt cwtt cwtf roomtype
     &olist &tqlist &fqlist thr1;
run;
proc format;
value groomtyp 1='Port' 2='Trad' 0='All';
value $ fdatsor T='TQ    ' F='FMQ    ' O=' ';
value fthr_p 1='<=27ppb' 2='>27ppb' 0='All Port';
value fthr_a 1='<=27ppb' 2='>27ppb' 0='All Clrooms';
value fthr_x 1='<=27ppb' 2='>27ppb' 0='All';
run;

** FOLLOWING ANALYSIS FOR PORTABLE CLASSROOMS;

** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
```

```
   CLASSROOM-LEVEL SAMPLING WEIGHTS,
   RESULTS SAVED IN _MEANSI;
proc crosstab design=wr data=_ccc noprint;
   weight cwt;
   nest astratum apsu;
   subpopn roomtype=1;
   subgroup thr1 &olist;
   levels 2 &olev;
   tables (&olist)*thr1;
        test chisq;
   output rowper serow nsum wsum /filename=_meansi;
   output chisq chisqp /filename=_ctesti;
run;
data _meansi;merge _meansi _ctesti(keep=tableno chisq chisqp);
by tableno;
run;

** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
   CLASSROOM-LEVEL SAMPLING WEIGHTS,
   ADJUSTED FOR TQ RESPONSE, RESULTS SAVED IN _MEANST;
proc crosstab design=wr data=_ccc noprint;
   weight cwtt;
   nest astratum apsu;
   subpopn roomtype=1;
   subgroup thr1 &tqlist;
   levels 2 &tqlev;
   tables (&tqlist)*thr1;
        test chisq;
   output rowper serow nsum wsum /filename=_meanst;
   output chisq chisqp /filename=_ctestt;
run;
data _meanst;merge _meanst _ctestt(keep=tableno chisq chisqp);
by tableno;
run;

** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
   CLASSROOM-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR
   FMQ RESPONSE, RESULTS SAVED IN _MEANSF;
proc crosstab design=wr data=_ccc noprint;
   weight cwtf;
   nest astratum apsu;
   subpopn roomtype=1;
   subgroup thr1 &fqlist;
  levels  2 &fqlev;
   tables (&fqlist)*thr1;
   test chisq;
   output rowper serow nsum wsum /filename=_meansf;
   output chisq chisqp /filename=_ctestf;
run;
data _meansf;merge _meansf _ctestf(keep=tableno chisq chisqp);
by tableno;
run;

** COMBINE RESULTS INTO ONE FILE AND RE-STRUCTURE IT FOR PRINTING;
data _means;set _meansi(in=ddd1)
               _meanst(in=ddd2)
               _meansf(in=ddd3);
length varnam $ 8;
if ddd1 then tableno=1000+tableno;
else if ddd2 then tableno=2000+tableno;
else if ddd3 then tableno=3000+tableno;
array x{*} &olist &tqlist &fqlist;
do ivar=1 to dim(x);
```

```
  if x{ivar}=0 then delete;
  else if x{ivar}>0 then do;
     lev=x{ivar};
     call vname(x{ivar},varnam);
        lcl=max(0,rowper-2*serow);
           ucl=min(100,rowper+2*serow);
  end;
end;
keep tableno chisq chisqp
    rowper serow nsum wsum thr1 varnam lev lcl ucl;
run;
proc sort;by varnam lev;run;

** ADD LABELS TO RESULTS AND SAVE RESULTS IN OUT.PORTPCT;
data _means;merge _means(in=dddd1) out.labvar(in=dddd2);
by varnam lev;
if dddd1;
if cat='All' then do;lcl=.;ucl=.;end;
label rowper='Est.*Pop.*Percent'
      serow='Std.*Error'
         nsum='Sample*Size'
         wsum='Est.*Pop.*Count'
         lcl='Approx.*Lower*95%*Limit'
         ucl='Approx.*Upper*95%*Limit'
      thr1='Formaldehyde*Level'
      vardesc='Classification*Variable'
      cat='Category'
      datsor='Data*Source'
      chisqp='p-Value*Wald*Chi^2';
run;
proc sort OUT=OUT.PORTPCT;by tableno thr1 lev;run;
data tmp;set out.portpct;
if thr1>0;
if not(thr1=1 and lev=1) then do;chisq=.; chisqp=.;end;
run;
** PRINT RESULTS;
proc print split='*';id thr1 vardesc;
by thr1 vardesc notsorted;
var cat chisqp nsum rowper lcl ucl;
format thr1 fthr_p. chisqp 6.2 rowper serow lcl ucl 5.1;
title 'CLASSIFICATION OF PORTABLE CLASSROOMS, BY FORMALDEHYDE LEVEL AND OTHER SELECTED
VARIABLES';
run;

*** REPEAT ABOVE FOR ALL CLASSROOMS;

** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
   CLASSROOM-LEVEL SAMPLING WEIGHTS,
   RESULTS SAVED IN _MEANSI;
proc crosstab design=wr data=_ccc noprint;
   weight cwt;
   nest astratum apsu;
   subgroup thr1 &olist;
   levels 2 &olev;
   tables (&olist)*thr1;
        test chisq;
   output rowper serow nsum wsum /filename=_meansi;
   output chisq chisqp /filename=_ctesti;
run;
data _meansi;merge _meansi _ctesti(keep=tableno chisq chisqp);
by tableno;
run;
```

```
** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
   CLASSROOM-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR
   TQ RESPONSE, RESULTS SAVED IN _MEANST;
proc crosstab design=wr data=_ccc noprint;
   weight cwtt;
   nest astratum apsu;
   subgroup thr1 &tqlist;
   levels 2 &tqlev;
   tables (&tqlist)*thr1;
        test chisq;
   output rowper serow nsum wsum /filename=_meanst;
   output chisq chisqp /filename=_ctestt;
run;
data _meanst;merge _meanst _ctestt(keep=tableno chisq chisqp);
by tableno;
run;

** ANALYSIS BASED ON FORMALDEHYDE SUBSAMPLE
   CLASSROOM-LEVEL SAMPLING WEIGHTS, ADJUSTED FOR
   FMQ RESPONSE, RESULTS SAVED IN _MEANSF;
proc crosstab design=wr data=_ccc noprint;
   weight cwtf;
   nest astratum apsu;
   subgroup thr1 &fqlist;
   levels  2 &fqlev;
   tables (&fqlist)*thr1;
   test chisq;
   output rowper serow nsum wsum /filename=_meansf;
   output chisq chisqp /filename=_ctestf;
run;
data _meansf;merge _meansf _ctestf(keep=tableno chisq chisqp);
by tableno;
run;

** COMBINE RESULTS INTO ONE FILE AND RE-STRUCTURE IT FOR PRINTING;
data _means;set _meansi(in=ddd1)
                _meanst(in=ddd2)
                _meansf(in=ddd3);
length varnam $ 8;
if ddd1 then tableno=1000+tableno;
else if ddd2 then tableno=2000+tableno;
else if ddd3 then tableno=3000+tableno;
array x{*} &olist &tqlist &fqlist;
do ivar=1 to dim(x);
  if x{ivar}=0 then delete;
  else if x{ivar}>0 then do;
     lev=x{ivar};
     call vname(x{ivar},varnam);
        lcl=max(0,rowper-2*serow);
           ucl=min(100,rowper+2*serow);
  end;
end;
keep tableno chisq chisqp
    rowper serow nsum wsum thr1 varnam lev lcl ucl;
run;
proc sort;by varnam lev;run;

** ADD LABELS TO RESULTS AND SAVE RESULTS IN OUT.ALLCPCT;
data _means;merge _means(in=dddd1) out.labvar(in=dddd2);
by varnam lev;
if dddd1;
if cat='All' then do;lcl=.;ucl=.;end;
label rowper='Est.*Pop.*Percent'
```

```
      serow='Std.*Error'
         nsum='Sample*Size'
         wsum='Est.*Pop.*Count'
         lcl='Approx.*Lower*95%*Limit'
         ucl='Approx.*Upper*95%*Limit'
      thr1='Formaldehyde*Level'
      vardesc='Classification*Variable'
      cat='Category'
      datsor='Data*Source'
      chisqp='p-Value*Wald*Chi^2';
run;
proc sort OUT=OUT.ALLCPCT;by tableno thr1 lev;run;
data tmp;set out.allcpct;
if thr1>0;
if not(thr1=1 and lev=1) then do;chisq=.; chisqp=.;end;
run;
** PRINT RESULTS;
proc print split='*';id thr1 vardesc;
by thr1 vardesc notsorted;
var cat chisqp nsum rowper lcl ucl;
format thr1 fthr_a. chisqp 6.2 rowper serow lcl ucl 5.1;
title 'CLASSIFICATION OF ALL CLASSROOMS, BY FORMALDEHYDE LEVEL AND OTHER SELECTED
VARIABLES';
run;

ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/prntab1.sas;
*** modified 12/07/2001;
*************************************************************************
***   PURPOSE: To print table summarizing formaldehyde concentrations;
***   run after wtdtest2;

options ls=130 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
ODS RTF FILE="f:/clayton/PRNTAB1.RTF" STYLE=MINIMAL;

proc format;
value groomtyp 1='Port' 2='Trad' 0='All';
value $ fdatsor T='TQ    ' F='FMQ    ' O=' ';
value fthr_p 1='<=27ppb' 2='>27ppb' 0='All Port';
value fthr_a 1='<=27ppb' 2='>27ppb' 0='All Clrooms';
value fthr_x 1='<=27ppb' 2='>27ppb' 0='All';
run;
DATA TMPP1;SET OUT.PORTPCT;BY VARNAM NOTSORTED;
IF FIRST.VARNAM;
tabn+1;
KEEP tabn VARNAM CHISQP;
RUN;
DATA TMPP;
SET OUT.PORTPCT;BY VARNAM NOTSORTED;
retain tabn;
if first.varnam then tabn+1;
KEEP tabn THR1 VARDESC CAT rowper lev nsum;
DATA TMPP;
MERGE TMPP TMPP1;BY tabn;
run;
DATA TMPA1;SET OUT.ALLCPCT;BY VARNAM NOTSORTED;
IF FIRST.VARNAM;
tabn+1;
KEEP tabn VARNAM CHISQP;
RUN;
DATA TMPA;
SET OUT.ALLCPCT;BY VARNAM NOTSORTED;
retain tabn;
if first.varnam then tabn+1;
KEEP tabn THR1 VARDESC CAT rowper lev nsum;
DATA TMPA(RENAME=(CHISQP=CHISQPA rowper=rowperA nsum=nsuma));
MERGE TMPA TMPA1;BY tabn;
run;
DATA TMPP;MERGE TMPP TMPA;RUN;
DATA TMPPLO
TMPPHI(DROP=chisqp chisqpa
       rename=(rowper=rowperh rowpera=rowperah
               nsum=nsumh nsuma=nsumah));
SET TMPP;
*** IF CHISQP<0.10 OR CHISQPA<0.10;
*** if cat='All' then delete;
if thr1>0;
if not(thr1=1 and lev=1) then do;chisqp=.;chisqpa=.;end;
if thr1=1 then output tmpplo;
else if thr1=2 then output tmpphi;
RUN;
data temp;merge tmpplo tmpphi;
nsum=nsum+nsumh;
nsuma=nsuma+nsumah;
label rowper='Est.*Pop.*Percent*Portable*Clrooms*<=27ppb'
      rowperh='Est.*Pop.*Percent*Portable*Clrooms*>27ppb'
      chisqp='p-Value*Wald*Chi^2*Portable*Clrooms'
         rowpera='Est.*Pop.*Percent*All*Clrooms*<=27ppb'
```

```
         rowperah='Est.*Pop.*Percent*All*Clrooms*>27ppb'
       chisqpa='p-Value*Wald*Chi^2*All*Clrooms'
         nsum='n for*Portable*Clrooms'
       nsuma='n for*All*Clrooms';
run;
proc print split='*';
by vardesc notsorted;
id vardesc;
var cat chisqp nsum rowper rowperh chisqpa nsuma rowpera rowperah;
format thr1 fthr_x. chisqp chisqpa 6.2
       rowper rowpera rowperh rowperah 5.1;
title 'Table 3-x. CLASSIFICATION OF CLASSROOMS, BY FORMALDEHYDE LEVEL AND OTHER SELECTED
VARIABLES';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/compar1.sas;
*** modified 12/11/2001;
************************************************************************
***   PURPOSE: To Compare portable and traditional classrooms
       with respect to formaldehyde concentrations, using log-scale conc,
       and % > trhesholds;
***   NOTE: Use landscape, left hand margin of 1"
***   USES COMBIN4 FILE AS INPUT;
************************************************************************;

options ls=150 ps=45 nocenter mprint nodate nonumber missing='N';
libname OUT 'f:/clayton';
libname IN 'F:/data';
ODS RTF FILE="f:/clayton/COMPAR1.RTF" STYLE=MINIMAL;

title ' ';
proc format;
value froomtyp 1='Port' 2='Trad' 3='Diff';
run;
%let olist=overall popstat region schtype sampmo samptime pwdxposc;

%let olev=1 3 2 3 3 5 2;

%let tqlist=geninst carpet vinylfl vinylwl
windopen dooropen preswood preswod1 preswod2 preswod3
newfurn applian chempres paints pmarker wbmarker
gluflu corflu glues afresh afreshp afreshs newodor
const rtq31c_b rtq31b_a othconst
complan tq37
nosesym nosesymi thrtsym thrtsymi eyessym eyessymi;

%let tqlev=2 3 2 2
           3 3 2 2 2 2
           3 3 2 2 2 2
           2 2 2 2 2 2 3
           4 2 2 2
           3 5
           3 3 3 3 3 3 ;

%let fqlist=clrage clragex clrageu
renovat renovmaj renovele renovruf clrsiz dampset
newwood newcarp newfloor;
%let fqlev=5 5 2
                2 2 2 2 3 5
           3 2 3 ;


data _ccc;   set out.combin4;

if P1WT10_3>0;

cwt=P1WT10_3;
cwtt=P1WT10_13;
cwtf=P1WT10_23;

keep meas lnmeas ndind100 apsu astratum  cwt cwtt cwtf roomtype
     &olist &tqlist &fqlist thr1pct thr2pct;
run;

*** compute %> thresholds and log scale mean and associated
    associated std. errors and contrasts;
*** USING INITIAL CLASSROOM LEVEL SAMPLING WEIGHTS;
proc descript noprint design=wr nomarg data=_ccc;
```

```
   weight cwt;
   nest astratum apsu;
   var lnmeas thr1pct thr2pct;
   subgroup roomtype &olist;
   levels 2 &olev;
   tables &olist;
   diffvar roomtype=(1 2)/name="Portable vs. Traditional";
   output /tablecell=default filename=_means1;
   run;

*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR TQ RESPONSE;
proc descript noprint design=wr nomarg data=_ccc;
   weight cwtt;
   nest astratum apsu;
   var lnmeas thr1pct thr2pct;
   subgroup roomtype &tqlist;
   levels 2 &tqlev;
   tables &tqlist;
   diffvar roomtype=(1 2)/name="Portable vs. Traditional";
   output /tablecell=default filename=_means2;
run;

*** USING CLASSROOM LEVEL SAMPLING WEIGHTS, ADJUSTED FOR FMQ RESPONSE;
proc descript noprint design=wr nomarg data=_ccc;
   weight cwtf;
   nest astratum apsu;
   var lnmeas thr1pct thr2pct;
   subgroup roomtype &fqlist;
   levels 2 &fqlev;
   tables &fqlist;
   diffvar roomtype=(1 2)/name="Portable vs. Traditional";
   output /tablecell=default filename=_means3;
run;

*** re-structure means data set and determine approx. confidence limits;

data _t1pmean(keep=mean semean tablen varnam lev t_mean p_mean
      rename=(mean=t1pct semean=set1pct t_mean=t_p1 p_mean=p_p1))
        _t2pmean(keep=mean semean tablen varnam lev t_mean p_mean
      rename=(mean=t2pct semean=set2pct t_mean=t_p2 p_mean=p_p2))
     _gmeans(keep=mean semean tablen varnam lev t_mean p_mean
      nsum wsum t_mean p_mean
       rename=(nsum=n wsum=popsize mean=lnmean semean=selnmean));;
set _means1(in=ddd1) _means2(in=ddd2) _means3(in=ddd3);
length varnam $ 8;
array x{*} &olist &tqlist &fqlist;
if ddd1 then tablen=1000+tableno;
else if ddd2 then tablen=2000+tableno;
else if ddd3 then tablen=3000+tableno;
do ivar=1 to dim(x);
  if x{ivar}=0 then delete;
  else if x{ivar}>0 then do;
   lev=x{ivar};
   call vname(x{ivar},varnam);
   if variable=1 then output _gmeans;
   else if variable=2 then output _t1pmean;
   else if variable=3 then output _t2pmean;
  end;
end;
run;
proc sort data=_gmeans;by varnam lev;run;

data _gmeans;merge _gmeans(in=dddd1) out.labvar(in=dddd2);
```

```
by varnam lev;
if dddd1;
run;

*** combine output data sets;

proc sort data=_t1pmean;by tablen lev;run;
proc sort data=_t2pmean;by tablen lev;run;
proc sort data=_gmeans;by tablen lev;run;

data out.compar;merge _gmeans _t1pmean _t2pmean;
by tablen lev;

keep
 n popsize
 t1pct set1pct t_p1 p_p1
 t2pct set2pct t_p2 p_p2
tablen varnam lev vardesc cat
lnmean selnmean t_mean p_mean;

label
   lnmean='diff in log-scale mean'
   selnmean='std. error log-scale mean diff'
   t_mean='t value for lnmean test'
   p_mean='p value for lnmean test'
   t1pct='diff in % of pop. > 27ppb'
   set1pct='std. error of diff in % > 27ppb'
   t_p1='t value for t1pct test'
   p_p1='p value for t1pct test'
   t2pct='diff in % of pop. > 76ppb'
   set2pct='std. error of diff in % > 76ppb'
   t_p2='t value for t2pct test'
   p_p2='p value for t2pct test'
   n='number of observations'
   popsize='estimated population size';
run;

*** prepare for printing results of tests;

DATA compar;SET OUT.compar;
LABEL n='n'
      popsize='Est. No.*Classrms'
      t1pct='Diff in*% Pop*With*Level*>27ppb'
         t2pct='Diff in*% Pop*With*Level*>76ppb'
      lnmean='Diff in*Log-Scale*Mean'
         set1pct='Std.*Error'
         set2pct='Std.*Error'
      selnmean='Std.*Error'
         varnam='Variable Name'
         vardesc='Variable Description'
      cat='Category'
      t_mean='t*Value'
      p_mean='p*Value'
         t_p1='t*Value'
      p_p1='p*Value'
         t_p2='t*Value'
      p_p2='p*Value';
run;

*** print estimates;

proc print data=compar  split='*';id vardesc cat;by vardesc cat notsorted;
var n popsize lnmean selnmean t_mean p_mean
```

```
              t1pct set1pct t_p1 p_p1
              t2pct set2pct t_p2 p_p2;
format t1pct t2pct set1pct set2pct 6.1
       popsize 6. lnmean selnmean p_mean p_p1 p_p2 6.3
          t_mean t_p1 t_p2 6.2;
title 'TESTS FOR DIFFERENCES IN FORMALDEHYDE LEVELS FOR PORTABLE VS. TRADITIONAL
CLASSROOMS';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/prntab2.sas;
*** modified 12/13/2001;
*************************************************************************
***   PURPOSE: To print table summarizing formaldehyde concentrations;
***   run after compar1 and wtdtest2;

options ls=130 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
ODS RTF FILE="f:/clayton/PRNTAB2.RTF" STYLE=MINIMAL;

proc format;
value groomtyp 1='Port' 2='Trad' 0='All';
value $ fdatsor T='TQ    ' F='FMQ    ' O=' ';
value fthr_p 1='<=27ppb' 2='>27ppb' 0='All Port';
value fthr_a 1='<=27ppb' 2='>27ppb' 0='All Clrooms';
value fthr_x 1='<=27ppb' 2='>27ppb' 0='All';
run;
DATA TMPP1;SET OUT.PORTPCT;BY VARNAM NOTSORTED;
IF FIRST.VARNAM;
KEEP VARNAM CHISQP;
RUN;
proc sort;by varnam;run;
DATA TMPA1(rename=(chisqp=chisqpa));
SET OUT.ALLCPCT;BY VARNAM NOTSORTED;
IF FIRST.VARNAM;
KEEP VARNAM CHISQP;
RUN;
proc sort;by varnam;run;
data comp;set out.compar;
keep p_mean p_p1 p_p2 varnam tablen lev n cat vardesc;
run;
proc sort;by varnam lev;run;
DATA TMPP;MERGE TMPP1 TMPA1 comp;by varnam;
label chisqp='p-Value*Wald*Chi^2*Portable*Clrooms'
        chisqpa='p-Value*Wald*Chi^2*All*Clrooms'
      cat='Category';
run;
proc sort;by tablen lev;run;
proc print split='*';
by vardesc chisqp chisqpa notsorted;
id vardesc chisqp chisqpa;
var cat p_mean p_p1 p_p2;
format chisqp chisqpa p_mean p_p1 p_p2 6.2 ;
title 'Table 3-cc. SUMMARY OF FORMALDEHYDE TESTS';
run;
ODS RTF CLOSE;
```

```
*** pgm in f:/clayton/wtedreg.sas;
*** modified 12/14/2001;
*************************************************************************
***   PURPOSE: To compare formaldehyde conc for portable and traditional classrooms
***   NOTE: Use landscape, left hand margin of 1"
*************************************************************************;

options ls=130 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
libname IN 'F:/data';

title ' ';
proc format;
value froomtyp 0='All' 1='Port' 2='Trad';
run;
%let olist=overall popstat region schtype sampmo samptime pwdxposc;

%let olev=1 3 2 3 3 5 2;

%let tqlist=geninst carpet vinylfl vinylwl
windopen dooropen preswood preswod1 preswod2 preswod3
newfurn applian chempres paints pmarker wbmarker
gluflu corflu glues afresh afreshp afreshs newodor
const rtq31c_b rtq31b_a othconst
complan tq37
nosesym nosesymi thrtsym thrtsymi eyessym eyessymi;

%let tqlev=2 3 2 2
           3 3 2 2 2 2
           3 3 2 2 2 2
           2 2 2 2 2 2 3
           4 2 2 2
           3 5
           3 3 3 3 3 3 ;

%let fqlist=clrage clragex clrageu
renovat renovmaj renovele renovruf clrsiz dampset
newwood newcarp newfloor;
%let fqlev=5 5 2
                2 2 2 2 3 5
           3 2 3 ;

data _ccc;   set out.combin4;
if P1WT10_3>0;
cwti=P1WT10_3;
cwtt=P1WT10_13;
cwtf=P1WT10_23;

keep meas lnmeas ndind100 apsu astratum  cwti cwtt cwtf roomtype
     &olist &tqlist &fqlist;
run;

%macro reg(aopt,cwt,xvar,nlev);
proc regress design=wr data=_ccc ;
** proc regress design=wr data=_ccc noprint;
   nest astratum apsu;
   weight &cwt;
   subgroup roomtype &xvar;
   levels 2 &nlev;
   model lnmeas=roomtype &xvar roomtype*&xvar;
  output adjwaldp/filename=intmodl replace filetype=sas;
   run;
```

```
data intmodl(keep=ADJWALDP rename=(adjwaldp=p_int));
   set intmodl;
    if contrast=6;
run;
proc regress design=wr data=_ccc ;
** proc regress design=wr data=_ccc noprint;
   nest astratum apsu;
   weight &cwt;
   subgroup roomtype &xvar;
   levels 2 &nlev;
   model lnmeas=roomtype &xvar;
  output adjwaldp/filename=memodl replace filetype=sas;
   run;
data rtypeff(keep=ADJWALDP rename=(adjwaldp=p_rtyp))
     xvareff(keep=ADJWALDP rename=(adjwaldp=p_xvar));
set memodl;
    if contrast=4 then output rtypeff;
      else if contrast=5 then output xvareff;
run;
data cccc;merge rtypeff xvareff intmodl;
length varnam $ 8;
varnam=upcase("&xvar");
keep varnam p_rtyp p_xvar p_int;
run;
%if &aopt=0 %then %do;
data regout;set cccc;run;
%end;
%else %if &aopt=1 %then %do;
proc append base=regout data=cccc;run;
%end;
%mend reg;

%reg(0,cwti,popstat,3);
%reg(1,cwti,region,2);
%reg(1,cwti,schtype,3);
%reg(1,cwti,sampmo,3);
%reg(1,cwti,samptime,5);
%reg(1,cwti,pwdxposc,2);

%reg(1,cwtt,geninst,2);
%reg(1,cwtt,carpet,3);
%reg(1,cwtt,vinylfl,2);
%reg(1,cwtt,vinylwl,2);
%reg(1,cwtt,windopen,3);
%reg(1,cwtt,dooropen,3);
%reg(1,cwtt,preswood,2);
%reg(1,cwtt,preswod1,2);
%reg(1,cwtt,preswod2,2);
%reg(1,cwtt,preswod3,2);
%reg(1,cwtt,newfurn,3 );
%reg(1,cwtt,applian,3 );
%reg(1,cwtt,chempres,2);
%reg(1,cwtt,paints,2 );
%reg(1,cwtt,pmarker,2 );
%reg(1,cwtt,wbmarker,2 );
%reg(1,cwtt,gluflu,2 );
%reg(1,cwtt,corflu,2 );
%reg(1,cwtt,glues,2 );
%reg(1,cwtt,afresh,2 );
%reg(1,cwtt,afreshp,2 );
%reg(1,cwtt,afreshs,2);
%reg(1,cwtt,newodor,3)
%reg(1,cwtt,const,4 );
```

```
%reg(1,cwtt,rtq31c_b,2 );
%reg(1,cwtt,rtq31b_a,2);
%reg(1,cwtt,othconst,2);
%reg(1,cwtt,complan,3);
%reg(1,cwtt,tq37,5 );
%reg(1,cwtt,nosesym,3 );
%reg(1,cwtt,nosesymi,3 );
%reg(1,cwtt,thrtsym,3 );
%reg(1,cwtt,thrtsymi,3 );
%reg(1,cwtt,eyessym,3 );
%reg(1,cwtt,eyessymi,3);

%reg(1,cwtf,clrage,5);
%reg(1,cwtf,clragex,5);
%reg(1,cwtf,clrageu,2);
%reg(1,cwtf,renovat,2);
%reg(1,cwtf,renovmaj,2);
%reg(1,cwtf,renovele,2);
%reg(1,cwtf,renovruf,2);
%reg(1,cwtf,clrsiz,3);
%reg(1,cwtf,dampset,5);
%reg(1,cwtf,newwood,3);
%reg(1,cwtf,newcarp,2);
%reg(1,cwtf,newfloor,3);

data out.regout;set regout;run;
proc sort data=regout;by varnam;run;
proc print;run;
data wtdreg;set out.outpctl;
keep roomtype varnam tablen lev n popsize vardesc cat lnmean gm;
run;
proc sort;by varnam;run;
data wtdreg;merge regout(in=d1) wtdreg;by varnam;run;
proc sort out=out.wtdreg;by tablen lev roomtype;run;
```

```
*** pgm in f:/clayton/prntab3.sas;
*** modified 12/14/2001;
*************************************************************************
***   PURPOSE: To print table summarizing formaldehyde concentrations;
***   run after wtedreg;

options ls=130 ps=45 nocenter mprint nodate nonumber;
libname OUT 'f:/clayton';
ODS RTF FILE="f:/clayton/PRNTAB3.RTF" STYLE=MINIMAL;

proc format;
value groomtyp 1='Port' 2='Trad' 0='All';
run;
DATA TMPP1;SET OUT.WTDREG;
label lnmean='Mean of*Log(Conc)'
      p_xvar='Adj*Wald F*p_Value*for*Variable'
         p_rtyp='Adj*Wald F*p_Value*for*Room Type'
         p_int='Adj*Wald F*p_Value*for*Interaction'
      n='No.*Obs'
      roomtype='Clroom*Type'
      varnam='Variable*Name'
      vardesc='Description'
      lnmean='Est.*Log-Scale*Mean'
         gm='Est.*Geometric*Mean'
         popsize='Est.*Pop.*Size'
      cat='Category';
run;
proc sort;by tablen lev roomtype;run;
proc print split='*';
by varnam vardesc p_xvar p_rtyp p_int notsorted;
id varnam vardesc p_xvar p_rtyp p_int ;
var cat roomtype n popsize lnmean gm;
format p_rtyp p_xvar p_int  6.3 lnmean 8.4 gm 6.1 roomtype groomtyp.
       popsize 8.;
title 'Table 3-ww. SUMMARY OF ANOVA RESULTS FOR LN(FORMALDEHYDE CONC)';
run;
ODS RTF CLOSE;
```

APPENDIX D

Estimated Population Distributions
of Schools and Classrooms

Appendix D consists of two parts.

Part I. The first part characterizes the schools in the target population. The schools are classified by several school-level variables (e.g., region) and estimated percentages of the schools falling into each category (e.g., north and south) are shown. The table also shows the sample size (number of schools) and the approximate 95% confidence intervals for the population percentages. Intervals ending at 0 or 100 have been truncated and indicate (a) cases where the coverage probability is actually less than 0.95 and (b) cases where the relative precision is likely to be poor.

Part II. This part characterizes the classrooms in the target population. The classrooms are classified by several classroom-level variables (e.g., temperature, with levels of okay, cold, and hot), and estimated percentages of the classrooms falling into each category are estimated; this is done for all classrooms, for portable classrooms, and for traditional classrooms. The table also shows the sample size (number of classrooms) and the approximate 95% confidence intervals for the population percentages. Intervals ending at 0 or 100 have been truncated and indicate (a) cases where the coverage probability is actually less than 0.95 and (b) cases where the relative precision is likely to be poor. In addition, for each variable the table gives the p-value associated with the Wald chi-square test of independence—i.e., a test that the distribution over the levels of the given variable is the same for portable and traditional classrooms.

Estimated Distributions for School-level Variables

Variable	Description	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
POPSTAT	School location	Urban	164	17.2	14.8	19.7
		Suburb	703	73.8	71.0	76.7
		Rural	85	8.9	7.1	10.8
REGION	Geographic region	North	430	45.2	41.9	48.4
		South	522	54.8	51.6	58.1
SCHTYPE	School type	Elem	565	59.3	56.2	62.5
		Middle	193	20.3	17.7	22.9
		High	194	20.4	17.8	23.0
P_CALWOR	Percent students on AFDC	<=25%	804	86.4	84.1	88.6
		>25%	127	13.6	11.4	15.9
P_MEAL	Percent students on Meal Assistance	<=55%	554	59.5	56.3	62.7
		>55%	377	40.5	37.3	43.7
PAVGCOST	Avg Student Expenditure	<=$5500	427	44.9	41.6	48.1
		>$5500	525	55.1	51.9	58.4
SCHAGE	School age (yrs)	<=10yr	42	10.0	7.0	13.1
		11-20yr	27	6.6	4.1	9.2
		21-30yr	37	9.9	6.7	13.0
		31-40yr	74	19.9	15.6	24.1
		41-50yr	90	24.3	19.7	28.8
		50+yr	77	19.8	15.7	24.0
		Unspec	37	9.6	6.5	12.6
NUMPORT	Number of portable classrooms	1-10	197	54.4	49.0	59.7
		11-20	120	32.4	27.4	37.5
		21-30	32	8.8	5.8	11.8
		>30	17	4.4	2.2	6.5
NUMTRAD	Number of traditional classrooms	1-20	149	77.0	70.9	83.2
		21-40	25	13.3	8.2	18.4
		41-60	18	8.6	4.7	12.6
		>60	2	1.0	N	N
NUMTOT	Total number classrooms	1-30	174	49.3	43.8	54.7
		31-60	137	37.6	32.3	42.8
		61-100	32	9.9	6.5	13.2
		>100	12	3.3	1.4	5.2
HVACLOG	HVAC maintenance logs kept	Yes	248	66.9	61.9	71.9
		No	34	9.8	6.5	13.0
		DK	88	23.3	18.8	27.8

Variable	Description	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
RFQ15	Regular HVAC inspection/maintenance	Yes	356	94.1	91.6	96.7
		No/NA	21	5.9	3.3	8.4
FQ15AA	HVAC I&M: outdr damper setting	Monthly	20	6.3	3.5	9.0
		Quarterly	75	22.0	17.4	26.6
		Yearly	94	26.0	21.2	30.7
		>Year	24	7.3	4.4	10.3
		Never	15	4.9	2.4	7.3
		DK	96	28.6	23.5	33.6
		NA	17	5.0	2.6	7.5
FQ15AB	HVAC I&M: coils cleaned	Monthly	7	2.2	N	N
		Quarterly	46	13.6	9.8	17.4
		Yearly	136	40.4	34.9	45.9
		>Year	39	11.6	8.0	15.2
		Never	10	3.6	N	N
		DK	91	27.1	22.1	32.0
		NA	6	1.5	N	N
FQ15AC	HVAC I&M: condensate pan/drain	Monthly	10	3.1	N	N
		Quarterly	55	16.6	12.5	20.8
		Yearly	117	33.2	28.1	38.4
		>Year	31	9.0	5.8	12.2
		Never	16	5.3	2.7	7.9
		DK	98	28.4	23.4	33.3
		NA	15	4.3	2.0	6.5
FQ15AD	HVAC I&M: filter replaced	Monthly	27	7.5	4.7	10.4
		Quarterly	190	53.9	48.4	59.3
		Yearly	45	12.9	9.2	16.6
		>Year	37	10.4	7.1	13.8
		Never	0	0.0	N	N
		DK	51	14.8	10.9	18.8
		NA	2	0.4	N	N
FQ15AE	HVAC I&M: exchanger checked	Monthly	8	2.5	N	N
		Quarterly	46	14.4	10.4	18.3
		Yearly	111	30.9	25.8	35.9
		>Year	29	8.7	5.5	11.8
		Never	13	4.0	1.8	6.3
		DK	100	28.8	23.8	33.8
		NA	37	10.8	7.4	14.3

Variable	Description	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
FQ16A	Freq of trash removal	5/wk	358	96.1	94.0	98.2
		3-4/wk	9	2.3	N	N
		1-2/wk	5	1.6	N	N
		1-2/mo	0	0.0	N	N
		<1/mo	0	0.0	N	N
FQ16B	Freq of vacuuming/sweeping/dusting	5/wk	208	57.1	51.8	62.4
		3-4/wk	100	26.4	21.7	31.1
		1-2/wk	47	14.0	10.1	17.8
		1-2/mo	7	1.9	N	N
		<1/mo	2	0.6	N	N
FQ16C	Freq of carpet steam/dry cleaning	5/wk	62	16.4	12.4	20.3
		3-4/wk	247	68.5	63.5	73.5
		1-2/wk	36	10.0	6.8	13.2
		1-2/mo	14	4.0	1.8	6.2
		<1/mo	4	1.2	N	N
FQ19A	Aware of EPA IAQ Tools for Schools Pgm	Yes	113	34.6	29.2	40.1
		No	208	65.4	59.9	70.8
USETOL	Awareness/use of EPA IAQ Tools	Aware/yes	35	10.7	7.1	14.2
		Aware/no	43	13.6	9.6	17.6
		Aware/DK	22	7.6	4.4	10.7
		Unaware	208	68.1	62.7	73.6
FQ25	Any major complaints of envir cond	Yes	170	52.1	46.4	57.8
		No	138	42.6	36.9	48.2
		DK	17	5.4	2.8	8.0
RFQ25AA	Roof leak complaint last yr: Port	None	98	39.1	32.7	45.4
		1	41	16.4	11.6	21.2
		2-4	84	34.3	28.1	40.5
		5-9	21	8.9	5.1	12.7
		10+	3	1.3	N	N
RFQ25BA	Roof leak complaint last yr: Trad	None	176	55.8	50.1	61.5
		1	37	10.6	7.2	14.0
		2-4	69	21.9	17.1	26.7
		5-9	18	6.0	3.2	8.8
		10+	16	5.7	2.9	8.5

Variable	Description	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
RFQ25AB	Plumbing leak complaint last yr: Port	None	172	79.6	74.0	85.1
		1	18	7.7	4.1	11.3
		2-4	22	10.1	5.9	14.4
		5-9	4	1.7	N	N
		10+	2	0.8	N	N
RFQ25BB	Plumbing leak complaint last yr: Trad	None	211	69.9	64.4	75.3
		1	27	9.1	5.7	12.5
		2-4	44	14.9	10.6	19.1
		5-9	13	4.5	2.0	7.0
		10+	5	1.7	N	N
RFQ25AC	Air/odor complaint last yr: Port	None	119	48.8	42.2	55.4
		1	50	21.7	16.2	27.3
		2-4	58	23.0	17.6	28.5
		5-9	11	5.1	2.0	8.1
		10+	4	1.4	N	N
RFQ25BC	Air/odor complaint last yr: Trad	None	211	69.0	63.5	74.5
		1	33	11.7	7.8	15.6
		2-4	39	12.7	8.8	16.6
		5-9	15	5.6	2.8	8.4
		10+	3	1.0	N	N
RFQ25AD	Mold complaint last yr: Port	None	171	74.5	68.6	80.4
		1	34	14.6	9.8	19.4
		2-4	19	8.2	4.5	12.0
		5-9	4	1.9	N	N
		10+	2	0.7	N	N
RFQ25BD	Mold complaint last yr: Trad	None	246	83.7	79.1	88.2
		1	16	6.0	3.0	8.9
		2-4	21	7.2	4.1	10.3
		5-9	7	2.7	N	N
		10+	1	0.4	N	N
RFQ25AE	Temperature complaint last yr: Port	None	119	50.0	43.3	56.7
		1	11	4.2	1.7	6.8
		2-4	56	23.4	17.7	29.0
		5-9	23	10.9	6.6	15.3
		10+	26	11.5	7.2	15.9

Variable	Description	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
RFQ25BE	Temperature complaint last yr: Trad	None	181	59.1	53.3	64.9
		1	8	2.3	N	N
		2-4	47	15.2	11.0	19.4
		5-9	31	10.4	6.8	14.0
		10+	37	13.0	9.0	17.1
RFQ25AF	Noise complaint last yr: Port	None	177	80.3	74.8	85.9
		1	12	5.2	2.2	8.2
		2-4	18	8.8	4.8	12.8
		5-9	5	2.3	N	N
		10+	7	3.3	N	N
RFQ25BF	Noise complaint last yr: Trad	None	249	85.2	80.9	89.5
		1	9	3.1	N	N
		2-4	17	6.0	3.1	8.8
		5-9	7	2.6	N	N
		10+	9	3.2	N	N
PORTCP	Port classroom envir complaints	Yes	149	43.6	38.1	49.1
		No	176	51.6	46.0	57.2
		DK	16	4.8	2.4	7.2
TRADCP	Trad classroom envir complaints	Yes	131	41.9	36.1	47.6
		No	167	53.0	47.2	58.8
		DK	16	5.2	2.6	7.8

Estimated Distributions for Classroom-level Variables, Overall and by Room Type

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	School location	0.24	Urban	216	20.9	15.9	26.0
			Suburb	942	72.3	66.9	77.7
			Rural	114	6.8	4.2	9.4
Port	School location		Urban	149	18.7	14.1	23.4
			Suburb	682	74.3	69.1	79.4
			Rural	76	7.0	4.3	9.7
Trad	School location		Urban	67	22.2	16.4	28.1
			Suburb	260	71.1	64.9	77.3
			Rural	38	6.6	3.8	9.5
All	Geographic region	0.98	North	561	37.9	32.2	43.7
			South	711	62.1	56.3	67.8
Port	Geographic region		North	400	37.9	32.2	43.6
			South	507	62.1	56.4	67.8
Trad	Geographic region		North	161	37.9	31.4	44.5
			South	204	62.1	55.5	68.6
All	School type	0.00	Elem	783	50.2	44.1	56.4
			Middle	224	20.3	15.6	25.1
			High	265	29.5	22.8	36.1
Port	School type		Elem	555	57.5	51.3	63.7
			Middle	153	18.2	13.4	23.0
			High	199	24.3	18.6	30.1
Trad	School type		Elem	228	45.9	39.2	52.7
			Middle	71	21.6	16.0	27.1
			High	66	32.5	24.7	40.2
All	General instruction classroom	0.00	Yes	1039	80.8	75.7	85.8
			No	130	19.2	14.2	24.3
Port	General instruction classroom		Yes	754	90.4	87.8	93.0
			No	81	9.6	7.0	12.2
Trad	General instruction classroom		Yes	285	75.1	67.6	82.7
			No	49	24.9	17.3	32.4
All	Typical number students in class	0.07	0-9	62	3.2	1.8	4.6
			10-19	191	12.4	9.4	15.4
			20-29	576	45.6	40.5	50.7
			30-39	318	34.7	29.4	40.0
			>40	29	4.1	1.4	6.8

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Typical number students in class		0-9	48	5.0	2.7	7.3
			10-19	142	14.0	10.8	17.2
			20-29	400	46.9	42.2	51.5
			30-39	233	32.3	27.6	37.1
			>40	17	1.8	0.8	2.8
Trad	Typical number students in class		0-9	14	2.2	0.4	3.9
			10-19	49	11.4	7.4	15.5
			20-29	176	44.9	37.7	52.0
			30-39	85	36.1	28.7	43.5
			>40	12	5.4	1.5	9.4
All	Type of flooring	0.00	Carpet_only	711	46.6	41.8	51.5
			Vinyl/linol	125	22.2	17.1	27.3
			Both	291	24.0	19.9	28.0
			Carpet_comb	32	3.4	1.9	4.8
			Other	17	3.9	1.4	6.4
Port	Type of flooring		Carpet_only	594	68.8	63.4	74.1
			Vinyl/linol	60	10.3	6.7	13.9
			Both	171	19.1	14.5	23.6
			Carpet_comb	14	1.5	0.5	2.5
			Other	2	0.3	0.0	0.9
Trad	Type of flooring		Carpet_only	117	33.4	26.6	40.2
			Vinyl/linol	65	29.2	21.7	36.7
			Both	120	26.9	21.3	32.5
			Carpet_comb	18	4.5	2.1	6.8
			Other	15	6.0	2.0	10.0
All	Carpeted classroom	0.00	Full	741	47.8	42.9	52.7
			Partial	293	25.4	21.4	29.5
			None	147	26.8	21.3	32.2
Port	Carpeted classroom		Full	618	70.7	65.4	76.0
			Partial	161	18.4	13.9	23.0
			None	65	10.9	7.2	14.6
Trad	Carpeted classroom		Full	123	34.3	27.5	41.1
			Partial	132	29.6	23.8	35.4
			None	82	36.1	28.5	43.8
All	Vinyl/linoleum floor	0.00	Yes	416	45.7	40.7	50.7
			No	765	54.3	49.3	59.3

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Vinyl/linoleum floor		Yes	231	29.3	24.1	34.5
			No	613	70.7	65.5	75.9
Trad	Vinyl/linoleum floor		Yes	185	55.3	48.1	62.6
			No	152	44.7	37.4	51.9
All	Vinyl tackable wallboard	0.00	Yes	759	47.0	42.1	51.8
			No	404	53.0	48.2	57.9
Port	Vinyl tackable wallboard		Yes	653	78.6	74.6	82.6
			No	179	21.4	17.4	25.4
Trad	Vinyl tackable wallboard		Yes	106	28.4	22.0	34.9
			No	225	71.6	65.1	78.0
All	Primary wall material	0.00	Sh_rock/pls	146	25.5	20.7	30.4
			vinyl_tack	759	47.8	42.9	52.7
			cinderblk	25	5.2	2.5	8.0
			other/DK	219	21.4	17.1	25.8
Port	Primary wall material		Sh_rock/pls	29	4.1	2.4	5.9
			vinyl_tack	653	79.1	75.2	83.1
			cinderblk	1	0.2	0.0	0.6
			other/DK	142	16.5	13.2	19.9
Trad	Primary wall material		Sh_rock/pls	117	38.3	31.0	45.6
			vinyl_tack	106	29.1	22.5	35.7
			cinderblk	24	8.2	3.8	12.6
			other/DK	77	24.3	17.8	30.8
All	Open windows	0.00	Never	207	26.2	21.4	31.0
			Infrequent	613	43.8	38.9	48.7
			Frequent	344	30.0	25.1	34.9
Port	Open windows		Never	100	13.0	8.7	17.4
			Infrequent	478	54.6	49.5	59.7
			Frequent	257	32.3	27.7	37.0
Trad	Open windows		Never	107	34.1	27.1	41.2
			Infrequent	135	37.3	30.3	44.2
			Frequent	87	28.6	21.5	35.7
All	Freq of open windows	0.00	Unopenable	207	26.2	21.4	31.0
			Rarely	346	25.6	21.7	29.6
			Occasional	267	18.2	14.6	21.8
			Frequently	183	14.1	10.9	17.3
			Most_time	111	10.8	7.1	14.4
			Always	50	5.1	2.9	7.3

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Freq of open windows		Unopenable	100	13.0	8.7	17.4
			Rarely	262	29.3	25.1	33.5
			Occasional	216	25.3	21.4	29.3
			Frequently	139	16.5	13.1	19.9
			Most_time	83	11.3	8.2	14.3
			Always	35	4.6	2.7	6.5
Trad	Freq of open windows		Unopenable	107	34.1	27.1	41.2
			Rarely	84	23.4	17.6	29.2
			Occasional	51	13.9	8.9	18.9
			Frequently	44	12.7	8.0	17.4
			Most_time	28	10.5	4.8	16.2
			Always	15	5.4	2.0	8.7
All	Open door to outside	0.00	Infreq	587	46.2	41.1	51.3
			Freq	507	39.1	34.4	43.8
			NA	52	14.7	9.9	19.5
Port	Open door to outside		Infreq	425	52.3	47.3	57.4
			Freq	388	47.6	42.6	52.7
			NA	3	0.1	0.0	0.1
Trad	Open door to outside		Infreq	162	42.6	35.5	49.8
			Freq	119	34.2	27.4	40.9
			NA	49	23.2	15.9	30.5
All	Freq of open exterior door	0.00	NA	234	19.8	15.7	23.9
			Rarely	353	26.4	22.1	30.6
			Occasional	304	24.2	20.2	28.2
			Frequently	170	11.5	8.9	14.1
			Most_time	33	3.4	1.4	5.4
			Always	52	14.7	9.9	19.5
Port	Freq of open exterior door		NA	165	21.1	16.4	25.9
			Rarely	260	31.2	26.7	35.7
			Occasional	228	28.5	24.2	32.9
			Frequently	136	15.7	12.5	18.9
			Most_time	24	3.4	1.7	5.1
			Always	3	0.1	0.0	0.1

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	Freq of open exterior door		NA	69	19.0	13.6	24.5
			Rarely	93	23.6	17.7	29.4
			Occasional	76	21.6	15.9	27.4
			Frequently	34	9.1	5.4	12.8
			Most_time	9	3.4	0.6	6.3
			Always	49	23.2	15.9	30.5
All	Air conditioning in room	0.00	Yes	1067	83.9	79.6	88.2
			No	100	16.1	11.8	20.4
Port	Air conditioning in room		Yes	799	95.4	93.1	97.6
			No	36	4.6	2.4	6.9
Trad	Air conditioning in room		Yes	268	77.1	70.6	83.6
			No	64	22.9	16.4	29.4
All	Thermostat in room	0.00	Yes	1063	83.6	79.3	88.0
			No	93	15.6	11.2	19.9
			DK	9	0.8	0.2	1.4
Port	Thermostat in room		Yes	793	94.8	92.4	97.2
			No	34	4.2	2.0	6.4
			DK	5	1.0	0.0	2.1
Trad	Thermostat in room		Yes	270	77.1	70.8	83.5
			No	59	22.2	15.8	28.5
			DK	4	0.7	0.0	1.4
All	Thermostat adjustment	0.00	Adjustable	848	60.0	54.6	65.4
			Locked_up	181	17.9	14.0	21.8
			Not_working	20	4.9	1.8	8.0
			Unspecified	14	0.8	0.2	1.4
			NA/DK	102	16.4	12.0	20.7
Port	Thermostat adjustment		Adjustable	663	77.4	72.7	82.1
			Locked_up	113	15.0	11.2	18.7
			Not_working	7	1.5	0.1	2.9
			Unspecified	10	1.0	0.2	1.8
			NA/DK	39	5.2	2.8	7.6
Trad	Thermostat adjustment		Adjustable	185	49.9	42.6	57.3
			Locked_up	68	19.6	14.0	25.1
			Not_working	13	6.9	2.1	11.7
			Unspecified	4	0.7	0.0	1.5
			NA/DK	63	22.9	16.5	29.2

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Pressed wood furniture	0.14	Yes	1066	86.9	83.0	90.7
			No	115	13.1	9.3	17.0
Port	Pressed wood furniture		Yes	767	90.0	87.2	92.9
			No	77	10.0	7.1	12.8
Trad	Pressed wood furniture		Yes	299	85.1	79.2	91.0
			No	38	14.9	9.0	20.8
All	Pressed wood table/desks	0.11	Yes	953	77.9	73.6	82.1
			No	228	22.1	17.9	26.4
Port	Pressed wood table/desks		Yes	690	81.8	78.1	85.5
			No	154	18.2	14.5	21.9
Trad	Pressed wood table/desks		Yes	263	75.6	69.0	82.1
			No	74	24.4	17.9	31.0
All	Pressed wood bookcases	0.07	Yes	666	50.6	45.4	55.8
			No	515	49.4	44.2	54.6
Port	Pressed wood bookcases		Yes	483	55.3	50.2	60.3
			No	361	44.7	39.7	49.8
Trad	Pressed wood bookcases		Yes	183	47.8	40.6	55.0
			No	154	52.2	45.0	59.4
All	Pressed wood cabinets	0.22	Yes	558	43.9	38.7	49.0
			No	623	56.1	51.0	61.3
Port	Pressed wood cabinets		Yes	415	47.0	42.0	52.0
			No	429	53.0	48.0	58.0
Trad	Pressed wood cabinets		Yes	143	42.0	34.8	49.2
			No	194	58.0	50.8	65.2
All	Plastic furniture	0.14	Yes	356	33.7	28.7	38.7
			No	825	66.3	61.3	71.3
Port	Plastic furniture		Yes	252	29.9	25.7	34.1
			No	592	70.1	65.9	74.3
Trad	Plastic furniture		Yes	104	35.9	28.6	43.2
			No	233	64.1	56.8	71.4
All	New furnishings this school yr	0.12	Yes	296	22.0	18.1	25.9
			No	827	74.2	70.0	78.3
			DK	41	3.8	2.0	5.7
Port	New furnishings this school yr		Yes	226	26.3	22.6	30.1
			No	575	69.7	65.9	73.5
			DK	30	4.0	2.0	5.9

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	New furnishings this school yr		Yes	70	19.5	13.7	25.2
			No	252	76.8	70.7	82.9
			DK	11	3.7	1.2	6.3
All	Copiers present in room	0.58	Yes	236	18.6	14.2	23.1
			No	945	81.4	76.9	85.8
Port	Copiers present in room		Yes	188	20.0	15.6	24.4
			No	656	80.0	75.6	84.4
Trad	Copiers present in room		Yes	48	17.8	11.4	24.3
			No	289	82.2	75.7	88.6
All	Type appliances in room	0.43	Stove/burnr	39	6.0	2.8	9.2
			Other	331	29.9	25.1	34.6
			None	693	64.1	59.1	69.1
Port	Type appliances in room		Stove/burnr	26	5.2	1.3	9.1
			Other	251	33.1	28.5	37.8
			None	488	61.7	56.8	66.6
Trad	Type appliances in room		Stove/burnr	13	6.5	2.1	11.0
			Other	80	27.9	20.8	34.9
			None	205	65.6	58.0	73.2
All	Chemical present in room	0.08	Yes	551	48.8	43.8	53.7
			No	630	51.2	46.3	56.2
Port	Chemical present in room		Yes	383	44.0	39.2	48.8
			No	461	56.0	51.2	60.8
Trad	Chemical present in room		Yes	168	51.6	44.3	58.9
			No	169	48.4	41.1	55.7
All	Paints/pens used	0.03	Yes	1131	93.1	89.8	96.3
			No	50	6.9	3.7	10.2
Port	Paints/pens used		Yes	813	96.6	95.0	98.1
			No	31	3.4	1.9	5.0
Trad	Paints/pens used		Yes	318	91.0	86.1	96.0
			No	19	9.0	4.0	13.9
All	Glues/fluids used	0.85	Yes	783	66.3	61.6	71.0
			No	398	33.7	29.0	38.4
Port	Glues/fluids used		Yes	569	66.8	62.5	71.0
			No	275	33.2	29.0	37.5
Trad	Glues/fluids used		Yes	214	66.1	59.4	72.7
			No	123	33.9	27.3	40.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Air freshener used	0.04	Yes	436	34.3	29.5	39.0
			No	745	65.7	61.0	70.5
Port	Air freshener used		Yes	335	39.3	35.1	43.5
			No	509	60.7	56.5	64.9
Trad	Air freshener used		Yes	101	31.3	24.5	38.1
			No	236	68.7	61.9	75.5
All	Candles used	0.01	Yes	74	10.7	6.8	14.5
			No	1107	89.3	85.5	93.2
Port	Candles used		Yes	46	5.4	3.4	7.5
			No	798	94.6	92.5	96.6
Trad	Candles used		Yes	28	13.8	8.0	19.6
			No	309	86.2	80.4	92.0
All	Air cleaners used	0.34	Yes	23	1.3	0.1	2.5
			No	1158	98.7	97.5	99.9
Port	Air cleaners used		Yes	21	1.9	0.9	3.0
			No	823	98.1	97.0	99.1
Trad	Air cleaners used		Yes	2	0.9	0.0	2.7
			No	335	99.1	97.3	100.0
All	Portable air purifier used	0.44	Yes	20	1.2	0.1	2.4
			No	1161	98.8	97.6	99.9
Port	Portable air purifier used		Yes	18	1.7	0.7	2.8
			No	826	98.3	97.2	99.3
Trad	Portable air purifier used		Yes	2	0.9	0.0	2.7
			No	335	99.1	97.3	100.0
All	Pesticide use past yr (teacher)	0.30	Current	33	3.2	1.4	4.9
			Previous	210	19.4	15.1	23.6
			Never	922	77.4	73.0	81.9
Port	Pesticide use past yr (teacher)		Current	18	1.8	0.7	2.9
			Previous	149	18.7	15.3	22.1
			Never	663	79.5	76.0	83.0
Trad	Pesticide use past yr (teacher)		Current	15	4.0	1.3	6.7
			Previous	61	19.8	13.6	26.0
			Never	259	76.2	69.7	82.7
All	Pesticide spray use past yr	0.18	Yes	184	18.3	13.9	22.7
			No	997	81.7	77.3	86.1
Port	Pesticide spray use past yr		Yes	127	15.6	12.4	18.7
			No	717	84.4	81.3	87.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	Pesticide spray use past yr		Yes	57	19.9	13.6	26.2
			No	280	80.1	73.8	86.4
All	Pesticide powder use past yr	0.01	Yes	27	1.8	0.9	2.6
			No	1154	98.2	97.4	99.1
Port	Pesticide powder use past yr		Yes	21	3.2	1.6	4.8
			No	823	96.8	95.2	98.4
Trad	Pesticide powder use past yr		Yes	6	0.9	0.0	1.8
			No	331	99.1	98.2	100.0
All	Pesticide trap use past yr	0.12	Yes	92	8.7	5.8	11.7
			No	1089	91.3	88.3	94.2
Port	Pesticide trap use past yr		Yes	59	6.4	4.1	8.7
			No	785	93.6	91.3	95.9
Trad	Pesticide trap use past yr		Yes	33	10.1	5.8	14.5
			No	304	89.9	85.5	94.2
All	Teacher classroom preference	0.00	Permanent	582	65.9	61.9	69.9
			Portable	276	13.3	11.0	15.7
			No_Opinion	304	20.8	17.1	24.5
Port	Teacher classroom preference		Permanent	304	34.7	30.1	39.3
			Portable	263	30.1	25.9	34.3
			No_Opinion	259	35.2	30.2	40.2
Trad	Teacher classroom preference		Permanent	278	84.0	78.9	89.1
			Portable	13	3.5	0.9	6.2
			No_Opinion	45	12.4	7.9	17.0
All	Classroom temperature	0.00	Okay	881	69.9	65.0	74.8
			Cold	168	14.4	10.9	17.9
			Hot	119	15.7	11.5	19.9
Port	Classroom temperature		Okay	643	78.1	74.4	81.9
			Cold	118	13.0	10.0	16.0
			Hot	71	8.9	6.4	11.3
Trad	Classroom temperature		Okay	238	65.1	57.9	72.3
			Cold	50	15.3	10.0	20.5
			Hot	48	19.6	13.2	26.0
All	Classroom humidity	0.81	Okay	967	82.8	78.6	87.1
			Humid	118	10.9	7.5	14.4
			Dry	66	6.2	3.5	8.9

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Classroom humidity		Okay	680	82.8	79.3	86.3
			Humid	89	11.6	8.5	14.8
			Dry	51	5.6	3.6	7.6
Trad	Classroom humidity		Okay	287	82.9	77.0	88.7
			Humid	29	10.5	5.8	15.3
			Dry	15	6.6	2.7	10.4
All	Classroom air	0.01	Okay	659	58.8	53.6	63.9
			Drafty	30	3.6	1.6	5.6
			Stuffy	479	37.6	32.6	42.6
Port	Classroom air		Okay	430	53.2	48.5	57.8
			Drafty	19	2.1	1.1	3.2
			Stuffy	384	44.7	40.1	49.3
Trad	Classroom air		Okay	229	62.1	54.8	69.4
			Drafty	11	4.5	1.3	7.7
			Stuffy	95	33.4	26.2	40.6
All	Classroom light	0.00	Okay	891	81.7	78.3	85.0
			Dim	194	13.5	10.6	16.5
			Bright	71	4.8	2.8	6.8
Port	Classroom light		Okay	599	72.5	68.2	76.9
			Dim	163	20.9	16.7	25.1
			Bright	60	6.5	4.5	8.6
Trad	Classroom light		Okay	292	87.0	82.3	91.7
			Dim	31	9.2	5.3	13.1
			Bright	11	3.8	0.9	6.6
All	Disruptive inside noise	0.03	Yes	607	52.1	47.1	57.2
			No	535	47.9	42.8	52.9
Port	Disruptive inside noise		Yes	457	57.9	53.3	62.5
			No	361	42.1	37.5	46.7
Trad	Disruptive inside noise		Yes	150	48.7	41.2	56.1
			No	174	51.3	43.9	58.8
All	Disruptive outside noise	0.30	Yes	717	64.3	59.3	69.3
			No	386	35.7	30.7	40.7
Port	Disruptive outside noise		Yes	518	66.9	62.7	71.1
			No	270	33.1	28.9	37.3
Trad	Disruptive outside noise		Yes	199	62.8	55.5	70.0
			No	116	37.2	30.0	44.5

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Turn off heat/AC due to noise	0.00	Yes	581	36.8	32.3	41.2
			No	572	63.2	58.8	67.7
Port	Turn off heat/AC due to noise		Yes	498	60.1	55.4	64.9
			No	326	39.9	35.1	44.6
Trad	Turn off heat/AC due to noise		Yes	83	23.0	17.2	28.8
			No	246	77.0	71.2	82.8
All	Bug problems in room	0.49	Current	164	14.4	10.9	17.9
			Previous	471	42.3	37.2	47.5
			Never	507	43.3	38.1	48.4
Port	Bug problems in room		Current	114	13.9	10.9	16.9
			Previous	334	39.7	34.9	44.5
			Never	372	46.4	41.3	51.4
Trad	Bug problems in room		Current	50	14.7	9.7	19.6
			Previous	137	43.9	36.4	51.3
			Never	135	41.5	34.2	48.7
All	Rodent problems in room	0.29	Current	32	1.9	0.8	3.0
			Previous	198	17.8	13.8	21.8
			Never	851	80.3	76.2	84.4
Port	Rodent problems in room		Current	25	2.4	1.2	3.6
			Previous	130	15.0	12.0	18.1
			Never	611	82.6	79.2	85.9
Trad	Rodent problems in room		Current	7	1.6	0.0	3.3
			Previous	68	19.4	13.6	25.2
			Never	240	79.0	73.0	84.9
All	Musty odor	0.00	Never	410	37.4	32.6	42.3
			Sometimes	520	46.0	41.2	50.8
			Often	237	16.6	13.0	20.2
Port	Musty odor		Never	261	30.7	26.4	34.9
			Sometimes	379	47.3	42.6	51.9
			Often	197	22.0	18.3	25.8
Trad	Musty odor		Never	149	41.5	34.3	48.6
			Sometimes	141	45.3	37.9	52.6
			Often	40	13.3	8.0	18.6
All	New furnishings odor	0.01	Never	972	88.3	85.8	90.9
			Sometimes	147	10.2	7.8	12.6
			Often	23	1.5	0.6	2.3

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	New furnishings odor		Never	681	83.6	80.1	87.2
			Sometimes	110	13.9	10.5	17.3
			Often	20	2.5	1.2	3.7
Trad	New furnishings odor		Never	291	91.0	87.7	94.4
			Sometimes	37	8.1	4.9	11.2
			Often	3	0.9	0.0	2.0
All	Musty odor at times	0.01	Yes	757	62.6	57.7	67.4
			No	410	37.4	32.6	42.3
Port	Musty odor at times		Yes	576	69.3	65.1	73.6
			No	261	30.7	26.4	34.9
Trad	Musty odor at times		Yes	181	58.5	51.4	65.7
			No	149	41.5	34.3	48.6
All	Cleaning products odor at times	0.03	Yes	396	37.3	32.5	42.1
			No	739	62.7	57.9	67.5
Port	Cleaning products odor at times		Yes	263	31.5	27.5	35.5
			No	544	68.5	64.5	72.5
Trad	Cleaning products odor at times		Yes	133	40.7	33.5	47.9
			No	195	59.3	52.1	66.5
All	Vehicle exhaust odor at times	0.60	Yes	62	5.8	2.9	8.6
			No	1072	94.2	91.4	97.1
Port	Vehicle exhaust odor at times		Yes	47	6.5	4.3	8.6
			No	759	93.5	91.4	95.7
Trad	Vehicle exhaust odor at times		Yes	15	5.4	1.4	9.4
			No	313	94.6	90.6	98.6
All	New carpet/furniture odor at times	0.00	Yes	170	11.7	9.1	14.2
			No	972	88.3	85.8	90.9
Port	New carpet/furniture odor at times		Yes	130	16.4	12.8	19.9
			No	681	83.6	80.1	87.2
Trad	New carpet/furniture odor at times		Yes	40	9.0	5.6	12.3
			No	291	91.0	87.7	94.4
All	Fresh paint odor at times	0.00	Yes	92	11.9	8.2	15.5
			No	1050	88.1	84.5	91.8
Port	Fresh paint odor at times		Yes	54	6.6	4.5	8.8
			No	756	93.4	91.2	95.5
Trad	Fresh paint odor at times		Yes	38	14.9	9.4	20.3
			No	294	85.1	79.7	90.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Cooking odor at times	0.01	Yes	163	18.7	14.2	23.2
			No	973	81.3	76.8	85.8
Port	Cooking odor at times		Yes	96	12.0	8.1	16.0
			No	711	88.0	84.0	91.9
Trad	Cooking odor at times		Yes	67	22.6	16.0	29.2
			No	262	77.4	70.8	84.0
All	Pesticide odor at times	0.73	Yes	110	9.0	5.7	12.3
			No	1030	91.0	87.7	94.3
Port	Pesticide odor at times		Yes	81	9.6	6.8	12.4
			No	729	90.4	87.6	93.2
Trad	Pesticide odor at times		Yes	29	8.7	3.9	13.5
			No	301	91.3	86.5	96.1
All	Asphalt/tar odor at times	0.92	Yes	67	8.0	5.1	10.8
			No	1068	92.0	89.2	94.9
Port	Asphalt/tar odor at times		Yes	47	8.1	5.2	11.0
			No	760	91.9	89.0	94.8
Trad	Asphalt/tar odor at times		Yes	20	7.9	3.7	12.0
			No	308	92.1	88.0	96.3
All	Tobacco smoke odor at times	0.72	Yes	23	2.1	0.0	4.3
			No	1118	97.9	95.7	100.0
Port	Tobacco smoke odor at times		Yes	17	1.7	0.7	2.6
			No	795	98.3	97.4	99.3
Trad	Tobacco smoke odor at times		Yes	6	2.3	0.0	5.8
			No	323	97.7	94.2	100.0
All	Trash/dumpster odor at times	0.47	Yes	97	8.9	5.9	11.8
			No	1040	91.1	88.2	94.1
Port	Trash/dumpster odor at times		Yes	72	10.1	7.2	12.9
			No	737	89.9	87.1	92.8
Trad	Trash/dumpster odor at times		Yes	25	8.2	3.9	12.5
			No	303	91.8	87.5	96.1
All	Sewer/compost odor at times	0.82	Yes	55	5.6	3.1	8.1
			No	1082	94.4	91.9	96.9
Port	Sewer/compost odor at times		Yes	41	5.3	2.9	7.7
			No	768	94.7	92.3	97.1
Trad	Sewer/compost odor at times		Yes	14	5.8	2.1	9.5
			No	314	94.2	90.5	97.9

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Fire/smoke odor at times	0.48	Yes	75	8.2	4.8	11.7
			No	1060	91.8	88.3	95.2
Port	Fire/smoke odor at times		Yes	53	6.9	4.4	9.5
			No	754	93.1	90.5	95.6
Trad	Fire/smoke odor at times		Yes	22	9.0	3.8	14.2
			No	306	91.0	85.8	96.2
All	Construction activity this yr	0.58	Current	275	27.0	21.6	32.4
			Previous	553	45.7	40.6	50.8
			Never	309	25.0	20.8	29.2
			Unknown	27	2.3	0.9	3.7
Port	Construction activity this yr		Current	202	25.8	21.1	30.5
			Previous	397	48.9	44.2	53.5
			Never	215	23.6	19.6	27.6
			Unknown	20	1.8	0.9	2.7
Trad	Construction activity this yr		Current	73	27.7	20.6	34.9
			Previous	156	43.8	36.5	51.0
			Never	94	25.9	19.8	31.9
			Unknown	7	2.6	0.5	4.7
All	Carpentry activity this yr	0.34	Yes	360	33.2	28.0	38.3
			No	821	66.8	61.7	72.0
Port	Carpentry activity this yr		Yes	254	30.8	26.3	35.3
			No	590	69.2	64.7	73.7
Trad	Carpentry activity this yr		Yes	106	34.6	27.3	41.8
			No	231	65.4	58.2	72.7
All	In-room construction this yr	0.57	Yes	170	14.5	11.2	17.8
			No	1003	85.5	82.2	88.8
Port	In-room construction this yr		Yes	123	15.6	12.3	18.9
			No	714	84.4	81.1	87.7
Trad	In-room construction this yr		Yes	47	13.8	8.9	18.8
			No	289	86.2	81.2	91.1
All	Other school construction this yr	0.34	Yes	795	69.2	64.6	73.8
			No	386	30.8	26.2	35.4
Port	Other school construction this yr		Yes	576	71.4	67.0	75.7
			No	268	28.6	24.3	33.0
Trad	Other school construction this yr		Yes	219	67.9	61.4	74.4
			No	118	32.1	25.6	38.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Same building construction this yr	0.00	Yes	141	18.9	14.6	23.2
			No	1040	81.1	76.8	85.4
Port	Same building construction this yr		Yes	63	7.3	5.0	9.5
			No	781	92.7	90.5	95.0
Trad	Same building construction this yr		Yes	78	25.8	19.3	32.3
			No	259	74.2	67.7	80.7
All	Evidence of water problems (teacher)	0.11	Current	291	24.0	19.8	28.1
			Previous	315	27.5	23.2	31.8
			Never	547	46.9	41.8	52.1
			Unknown	25	1.6	0.8	2.4
Port	Evidence of water problems (teacher)		Current	210	25.2	20.7	29.6
			Previous	207	23.8	20.1	27.4
			Never	404	48.4	44.0	52.9
			Unknown	21	2.6	1.4	3.9
Trad	Evidence of water problems (teacher)		Current	81	23.2	17.1	29.3
			Previous	108	29.7	23.2	36.3
			Never	143	46.0	38.8	53.3
			Unknown	4	1.0	0.0	2.0
All	Leak or flood in room	0.04	Current	129	11.5	8.3	14.6
			Previous	380	33.7	29.0	38.4
			Never	598	51.5	46.4	56.5
			Unknown	53	3.3	2.1	4.5
Port	Leak or flood in room		Current	90	11.3	8.3	14.2
			Previous	255	31.3	26.6	35.9
			Never	440	52.0	47.6	56.4
			Unknown	45	5.5	3.7	7.3
Trad	Leak or flood in room		Current	39	11.6	6.9	16.3
			Previous	125	35.2	28.2	42.2
			Never	158	51.2	43.8	58.5
			Unknown	8	2.1	0.5	3.6
All	Type leak or flood	0.01	Roof	291	22.6	18.7	26.6
			Other	135	14.1	10.5	17.8
			Both	85	7.6	5.1	10.2
			No_Leaks	670	55.6	50.6	60.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Type leak or flood		Roof	219	26.9	22.9	30.9
			Other	76	8.3	6.0	10.6
			Both	53	7.1	4.7	9.5
			No_Leaks	496	57.7	53.1	62.3
Trad	Type leak or flood		Roof	72	20.1	14.2	26.0
			Other	59	17.6	12.0	23.2
			Both	32	8.0	4.2	11.7
			No_Leaks	174	54.3	47.1	61.6
All	Water stains in room	0.69	Current	243	20.3	16.4	24.3
			Previous	257	21.5	17.5	25.6
			Never	595	53.0	47.8	58.2
			Unknown	49	5.1	2.8	7.4
Port	Water stains in room		Current	179	22.7	18.1	27.2
			Previous	180	21.5	17.9	25.1
			Never	424	51.7	47.1	56.3
			Unknown	34	4.1	2.6	5.6
Trad	Water stains in room		Current	64	19.0	13.2	24.8
			Previous	77	21.6	15.5	27.6
			Never	171	53.8	46.4	61.1
			Unknown	15	5.7	2.1	9.2
All	Type water stains	0.64	Ceiling	279	21.7	17.8	25.7
			Floor	51	4.7	2.2	7.3
			Both	68	5.6	3.2	8.0
			Other	783	67.9	63.3	72.6
			No_Stains	0	0.0	0.0	0.0
Port	Type water stains		Ceiling	201	24.4	20.1	28.6
			Floor	39	4.4	2.8	6.1
			Both	51	6.0	4.1	7.9
			Other	553	65.2	60.8	69.6
			No_Stains	0	0.0	0.0	0.0
Trad	Type water stains		Ceiling	78	20.2	14.7	25.7
			Floor	12	4.9	0.9	8.9
			Both	17	5.4	1.6	9.1
			Other	230	69.5	62.7	76.3
			No_Stains	0	0.0	0.0	0.0

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Visible mold in room (teacher)	0.23	Current	56	3.9	2.4	5.4
			Previous	69	5.5	3.2	7.8
			Never	862	77.5	73.3	81.8
			Unknown	164	13.1	9.5	16.7
Port	Visible mold in room (teacher)		Current	47	5.6	3.6	7.7
			Previous	49	5.0	3.2	6.7
			Never	604	75.5	71.8	79.1
			Unknown	123	13.9	11.1	16.8
Trad	Visible mold in room (teacher)		Current	9	2.8	0.8	4.8
			Previous	20	5.8	2.3	9.2
			Never	258	78.7	72.6	84.9
			Unknown	41	12.6	7.4	17.9
All	No. locations with mold	0.60	No mold	1045	90.0	87.3	92.7
			1-2_loc	121	9.0	6.4	11.6
			3+loc	15	1.0	0.1	1.9
Port	No. locations with mold		No mold	740	88.5	85.8	91.2
			1-2_loc	93	10.3	7.8	12.9
			3+loc	11	1.2	0.4	2.0
Trad	No. locations with mold		No mold	305	90.9	86.9	94.9
			1-2_loc	28	8.2	4.4	12.0
			3+loc	4	0.9	0.0	2.2
All	Freq of floor cleaning	0.59	Daily	140	42.9	33.1	52.7
			2-3/wk	97	34.4	24.5	44.4
			1/wk	42	11.5	5.8	17.2
			Other	17	5.9	1.4	10.3
			DK	14	5.3	1.6	9.0
Port	Freq of floor cleaning		Daily	102	41.7	33.6	49.8
			2-3/wk	72	29.9	22.9	36.9
			1/wk	36	16.3	10.2	22.5
			Other	14	7.3	2.7	12.0
			DK	9	4.8	0.9	8.6
Trad	Freq of floor cleaning		Daily	38	43.7	28.5	59.0
			2-3/wk	25	37.4	22.1	52.7
			1/wk	6	8.3	0.0	16.8
			Other	3	4.9	0.0	11.2
			DK	5	5.6	0.0	11.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Custodial services needed	0.62	More_freq	83	7.9	4.9	10.8
			More_effctv	150	13.6	10.0	17.2
			Both	165	12.9	9.7	16.0
			Unspecified	14	1.3	0.4	2.1
			NA	755	64.4	59.3	69.5
Port	Custodial services needed		More_freq	62	7.7	5.2	10.3
			More_effctv	102	11.1	8.5	13.8
			Both	121	14.8	11.6	17.9
			Unspecified	9	1.3	0.2	2.4
			NA	539	65.1	60.7	69.4
Trad	Custodial services needed		More_freq	21	7.9	3.7	12.2
			More_effctv	48	15.0	9.6	20.5
			Both	44	11.7	7.5	16.0
			Unspecified	5	1.3	0.1	2.4
			NA	216	64.0	57.0	71.1
All	# teacher complaints in school yr	0.77	0	467	38.9	34.2	43.7
			1-5	603	53.0	48.3	57.8
			>5	88	8.0	5.1	10.9
Port	# teacher complaints in school yr		0	331	40.4	35.8	45.0
			1-5	431	51.1	46.7	55.5
			>5	67	8.5	5.7	11.3
Trad	# teacher complaints in school yr		0	136	38.1	31.1	45.0
			1-5	172	54.2	46.9	61.5
			>5	21	7.7	3.4	12.1
All	Overall air quality (teacher)	0.19	Excellent	190	16.8	13.2	20.4
			Good	426	36.9	32.1	41.7
			Adequate	376	33.8	28.8	38.8
			Poor	140	10.6	7.9	13.3
			Very_poor	31	1.9	0.8	3.1
Port	Overall air quality (teacher)		Excellent	122	16.5	12.8	20.3
			Good	291	33.7	29.8	37.7
			Adequate	277	33.6	29.6	37.5
			Poor	112	13.1	10.2	16.0
			Very_poor	28	3.0	1.6	4.5

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	Overall air quality (teacher)		Excellent	68	16.9	12.1	21.8
			Good	135	38.8	31.7	45.9
			Adequate	99	33.9	26.6	41.2
			Poor	28	9.1	5.2	13.1
			Very_poor	3	1.3	0.0	2.9
All	Overall air quality (teacher)	0.08	Excel/Good	616	53.7	48.6	58.8
			Adequate	376	33.8	28.8	38.8
			Poor	171	12.5	9.6	15.5
Port	Overall air quality (teacher)		Excel/Good	413	50.3	45.8	54.7
			Adequate	277	33.6	29.6	37.5
			Poor	140	16.2	12.9	19.4
Trad	Overall air quality (teacher)		Excel/Good	203	55.7	48.3	63.1
			Adequate	99	33.9	26.6	41.2
			Poor	31	10.4	6.2	14.6
All	Days absent last 2 weeks	0.45	None	835	72.8	68.6	77.0
			1-2_days	276	22.4	18.4	26.4
			>2_days	56	4.8	2.7	6.9
Port	Days absent last 2 weeks		None	581	69.7	65.4	73.9
			1-2_days	215	25.2	21.2	29.2
			>2_days	39	5.2	3.3	7.0
Trad	Days absent last 2 weeks		None	254	74.6	68.2	81.0
			1-2_days	61	20.8	14.8	26.8
			>2_days	17	4.6	1.5	7.7
All	Reason for absence	0.07	Cold/flu	81	7.1	5.1	9.2
			Allerg/resp	58	5.7	3.4	7.9
			NA	835	87.2	84.2	90.2
Port	Reason for absence		Cold/flu	64	10.1	7.2	13.1
			Allerg/resp	43	5.5	3.4	7.6
			NA	581	84.4	80.9	87.8
Trad	Reason for absence		Cold/flu	17	5.4	2.7	8.2
			Allerg/resp	15	5.7	2.4	9.0
			NA	254	88.8	84.6	93.1
All	Nose symptoms past 2 weeks	0.05	None	469	43.4	38.1	48.7
			Occasional	407	35.8	30.8	40.8
			Frequent	274	20.8	17.0	24.7

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Nose symptoms past 2 weeks		None	325	41.1	36.2	46.0
			Occasional	282	33.1	28.6	37.6
			Frequent	214	25.8	21.7	29.9
Trad	Nose symptoms past 2 weeks		None	144	44.8	37.4	52.1
			Occasional	125	37.3	30.1	44.5
			Frequent	60	17.9	12.6	23.2
All	Nose symptoms at home	0.17	Same/worse	358	32.2	27.4	37.0
			Improves	244	21.9	17.3	26.4
			NA	469	45.9	40.5	51.4
Port	Nose symptoms at home		Same/worse	250	30.1	26.1	34.1
			Improves	192	26.5	21.6	31.4
			NA	325	43.4	38.3	48.5
Trad	Nose symptoms at home		Same/worse	108	33.4	26.3	40.5
			Improves	52	19.1	12.7	25.6
			NA	144	47.4	39.8	55.1
All	Throat symptoms past 2 weeks	0.06	None	603	56.6	51.7	61.6
			Occasional	345	30.6	25.8	35.3
			Frequent	187	12.8	10.3	15.3
Port	Throat symptoms past 2 weeks		None	415	53.3	48.8	57.9
			Occasional	248	30.0	26.0	34.1
			Frequent	146	16.6	13.3	20.0
Trad	Throat symptoms past 2 weeks		None	188	58.6	51.4	65.8
			Occasional	97	30.9	24.0	37.7
			Frequent	41	10.5	6.9	14.2
All	Throat symptoms at home	0.29	Same/worse	223	18.8	15.1	22.5
			Improves	241	21.3	17.0	25.5
			NA	603	59.9	54.9	65.0
Port	Throat symptoms at home		Same/worse	158	18.6	15.2	22.0
			Improves	188	25.0	21.0	29.0
			NA	415	56.4	51.8	61.1
Trad	Throat symptoms at home		Same/worse	65	18.9	13.6	24.3
			Improves	53	19.1	12.7	25.4
			NA	188	62.0	54.6	69.4
All	Eyes symptoms past 2 weeks	0.50	None	658	59.2	54.3	64.2
			Occasional	309	27.3	22.8	31.9
			Frequent	163	13.4	10.3	16.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Eyes symptoms past 2 weeks		None	462	59.4	54.9	63.9
			Occasional	218	25.4	21.7	29.2
			Frequent	121	15.2	11.8	18.6
Trad	Eyes symptoms past 2 weeks		None	196	59.2	51.9	66.4
			Occasional	91	28.5	21.6	35.3
			Frequent	42	12.4	8.0	16.7
All	Eyes symptoms at home	0.05	Same/worse	212	21.7	17.3	26.1
			Improves	197	16.8	13.0	20.5
			NA	658	61.5	56.4	66.6
Port	Eyes symptoms at home		Same/worse	141	16.8	13.4	20.2
			Improves	152	20.5	16.6	24.4
			NA	462	62.7	58.1	67.3
Trad	Eyes symptoms at home		Same/worse	71	24.5	17.9	31.1
			Improves	45	14.7	9.3	20.0
			NA	196	60.9	53.5	68.3
All	Skin symptoms past 2 weeks	0.06	None	831	77.1	73.0	81.2
			Occasional	196	14.2	10.7	17.8
			Frequent	108	8.6	6.1	11.2
Port	Skin symptoms past 2 weeks		None	577	73.7	69.8	77.5
			Occasional	153	18.5	15.0	22.0
			Frequent	77	7.8	5.8	9.9
Trad	Skin symptoms past 2 weeks		None	254	79.2	73.2	85.2
			Occasional	43	11.7	6.7	16.7
			Frequent	31	9.1	5.3	12.9
All	Skin symptoms at home	0.01	Same/worse	194	15.5	11.7	19.4
			Improves	68	4.9	3.3	6.4
			NA	831	79.6	75.5	83.7
Port	Skin symptoms at home		Same/worse	146	16.0	12.9	19.1
			Improves	58	8.2	5.6	10.8
			NA	577	75.8	72.0	79.6
Trad	Skin symptoms at home		Same/worse	48	15.3	9.6	21.0
			Improves	10	2.9	1.0	4.8
			NA	254	81.8	75.9	87.8
All	Headache/sinus pain past 2 weeks	0.91	None	547	49.3	44.1	54.4
			Occasional	396	34.3	29.7	38.9
			Frequent	194	16.4	12.7	20.1

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Headache/sinus pain past 2 weeks		None	386	49.4	44.9	53.9
			Occasional	285	35.0	30.7	39.4
			Frequent	135	15.6	12.3	18.8
Trad	Headache/sinus pain past 2 weeks		None	161	49.2	41.8	56.5
			Occasional	111	33.9	27.0	40.8
			Frequent	59	16.9	11.3	22.5
All	Headache/sinus pain at home	0.31	Same/worse	274	27.4	22.7	32.1
			Improves	236	20.2	16.0	24.3
			NA	547	52.5	47.1	57.8
Port	Headache/sinus pain at home		Same/worse	184	24.5	20.5	28.5
			Improves	179	23.0	19.0	27.1
			NA	386	52.5	47.8	57.1
Trad	Headache/sinus pain at home		Same/worse	90	29.1	22.1	36.0
			Improves	57	18.5	12.7	24.3
			NA	161	52.4	44.8	60.1
All	Drowsiness past 2 weeks	0.32	None	788	73.4	69.1	77.6
			Occasional	276	21.2	17.3	25.2
			Frequent	68	5.4	3.5	7.4
Port	Drowsiness past 2 weeks		None	554	69.9	66.0	73.9
			Occasional	206	24.5	20.8	28.3
			Frequent	49	5.5	3.7	7.3
Trad	Drowsiness past 2 weeks		None	234	75.4	69.0	81.7
			Occasional	70	19.3	13.4	25.2
			Frequent	19	5.3	2.4	8.3
All	Drowsiness at home	0.09	Same/worse	111	10.6	7.7	13.5
			Improves	177	13.2	9.7	16.6
			NA	788	76.2	72.0	80.4
Port	Drowsiness at home		Same/worse	70	9.5	6.9	12.1
			Improves	143	17.5	13.9	21.0
			NA	554	73.0	69.1	77.0
Trad	Drowsiness at home		Same/worse	41	11.3	7.0	15.6
			Improves	34	10.7	5.5	15.8
			NA	234	78.1	71.8	84.4
All	Dizziness/faintness past 2 weeks	0.43	None	1022	92.4	90.2	94.5
			Occasional	88	6.1	4.2	8.0
			Frequent	17	1.5	0.5	2.5

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Dizziness/faintness past 2 weeks		None	724	91.9	89.8	94.1
			Occasional	68	7.1	5.0	9.2
			Frequent	9	1.0	0.3	1.7
Trad	Dizziness/faintness past 2 weeks		None	298	92.7	89.5	95.8
			Occasional	20	5.6	2.8	8.3
			Frequent	8	1.8	0.2	3.3
All	Dizziness/faintness at home	0.76	Same/worse	27	2.0	0.9	3.0
			Improves	68	5.0	3.1	6.8
			NA	1022	93.1	91.0	95.1
Port	Dizziness/faintness at home		Same/worse	20	2.5	1.1	3.9
			Improves	50	5.0	3.4	6.5
			NA	724	92.6	90.5	94.6
Trad	Dizziness/faintness at home		Same/worse	7	1.7	0.2	3.2
			Improves	18	4.9	2.2	7.7
			NA	298	93.4	90.3	96.5
All	Lung symptoms past 2 weeks	0.33	None	982	89.4	86.8	92.0
			Occasional	104	8.1	5.7	10.5
			Frequent	42	2.5	1.5	3.6
Port	Lung symptoms past 2 weeks		None	692	87.7	85.0	90.3
			Occasional	76	9.0	6.7	11.3
			Frequent	32	3.3	2.0	4.7
Trad	Lung symptoms past 2 weeks		None	290	90.4	86.5	94.2
			Occasional	28	7.5	3.9	11.2
			Frequent	10	2.1	0.6	3.6
All	Lung symptoms at home	0.59	Same/worse	55	3.9	2.0	5.9
			Improves	75	5.9	4.1	7.7
			NA	982	90.2	87.6	92.7
Port	Lung symptoms at home		Same/worse	40	4.2	2.7	5.7
			Improves	55	6.9	4.9	9.0
			NA	692	88.9	86.3	91.4
Trad	Lung symptoms at home		Same/worse	15	3.8	0.8	6.8
			Improves	20	5.3	2.8	7.9
			NA	290	90.9	87.1	94.7
All	Upset stomach past 2 weeks	0.95	None	901	80.6	77.0	84.2
			Occasional	195	16.6	13.2	20.0
			Frequent	34	2.8	1.6	4.0

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Upset stomach past 2 weeks		None	642	79.9	76.4	83.5
			Occasional	143	17.3	14.0	20.5
			Frequent	21	2.8	1.2	4.4
Trad	Upset stomach past 2 weeks		None	259	81.0	75.5	86.5
			Occasional	52	16.2	10.9	21.5
			Frequent	13	2.7	1.1	4.4
All	Upset stomach at home	0.27	Same/worse	92	9.2	6.3	12.1
			Improves	97	8.1	5.6	10.5
			NA	901	82.7	79.1	86.2
Port	Upset stomach at home		Same/worse	61	7.4	5.2	9.6
			Improves	72	9.9	7.1	12.8
			NA	642	82.6	79.2	86.1
Trad	Upset stomach at home		Same/worse	31	10.3	5.8	14.7
			Improves	25	7.0	3.4	10.6
			NA	259	82.7	77.2	88.2
All	No. health symptoms past 2 weeks	0.25	None	276	26.4	21.8	31.0
			1-2	279	25.4	21.0	29.9
			3+	595	48.1	43.1	53.2
Port	No. health symptoms past 2 weeks		None	188	24.5	20.4	28.7
			1-2	197	22.8	19.3	26.3
			3+	436	52.7	47.9	57.4
Trad	No. health symptoms past 2 weeks		None	88	27.5	20.9	34.2
			1-2	82	27.0	20.2	33.7
			3+	159	45.5	38.2	52.8
All	Chronic hay fever/allergies	0.44	Yes	416	32.5	28.1	36.9
			No	765	67.5	63.1	71.9
Port	Chronic hay fever/allergies		Yes	309	34.5	30.5	38.4
			No	535	65.5	61.6	69.5
Trad	Chronic hay fever/allergies		Yes	107	31.3	24.5	38.2
			No	230	68.7	61.8	75.5
All	Chronic asthma/bronchitis	0.37	Yes	139	10.3	7.6	13.0
			No	1042	89.7	87.0	92.4
Port	Chronic asthma/bronchitis		Yes	103	11.7	8.8	14.6
			No	741	88.3	85.4	91.2
Trad	Chronic asthma/bronchitis		Yes	36	9.5	5.5	13.5
			No	301	90.5	86.5	94.5

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Chronic hypertension/heart disease	0.69	Yes	74	6.4	4.1	8.6
			No	1107	93.6	91.4	95.9
Port	Chronic hypertension/heart disease		Yes	51	5.8	3.8	7.9
			No	793	94.2	92.1	96.2
Trad	Chronic hypertension/heart disease		Yes	23	6.7	3.2	10.1
			No	314	93.3	89.9	96.8
All	Inhaled asthma med past 2 weeks	0.14	Never	34	3.2	1.3	5.1
			Some	73	4.6	3.0	6.2
			NA	1071	92.2	89.8	94.7
Port	Inhaled asthma med past 2 weeks		Never	22	2.7	1.3	4.2
			Some	59	6.5	4.5	8.5
			NA	762	90.8	88.1	93.4
Trad	Inhaled asthma med past 2 weeks		Never	12	3.4	0.5	6.3
			Some	14	3.5	1.2	5.8
			NA	309	93.1	89.4	96.7
All	No. students taking asthma med	0.04	DK	447	43.1	37.8	48.4
			None	165	12.2	9.4	15.0
			1-2	323	24.2	20.3	28.1
			3-5	171	12.2	9.5	14.9
			6+	51	8.3	4.8	11.7
Port	No. students taking asthma med		DK	321	39.8	34.8	44.9
			None	116	12.6	9.6	15.5
			1-2	234	28.4	24.2	32.6
			3-5	122	14.5	11.5	17.6
			6+	33	4.7	2.4	6.9
Trad	No. students taking asthma med		DK	126	45.0	37.5	52.5
			None	49	12.0	8.0	16.0
			1-2	89	21.7	16.3	27.1
			3-5	49	10.9	7.3	14.6
			6+	18	10.4	5.1	15.7
All	Type of Classroom	0.00	Port-DSA	338	15.0	12.3	17.6
			Port-DOH	11	0.4	0.1	0.7
			Port-Unk	462	21.7	19.0	24.4
			Trad	277	55.6	51.7	59.4
			Trad?	44	7.4	4.9	9.9

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Type of Classroom		Port-DSA	338	40.4	34.2	46.6
			Port-DOH	11	1.1	0.3	2.0
			Port-Unk	462	58.5	52.2	64.7
			Trad	0	0.0	0.0	0.0
			Trad?	0	0.0	0.0	0.0
Trad	Type of Classroom		Port-DSA	0	0.0	0.0	0.0
			Port-DOH	0	0.0	0.0	0.0
			Port-Unk	0	0.0	0.0	0.0
			Trad	277	88.3	84.2	92.3
			Trad?	44	11.7	7.7	15.8
All	Classroom age (yrs)	0.00	<=10yr	370	29.0	24.0	34.0
			11-20yr	172	17.5	13.4	21.6
			21-30yr	67	14.6	8.9	20.3
			31-40yr	72	13.0	8.3	17.7
			41+yr	95	25.9	20.2	31.6
Port	Classroom age (yrs)		<=10yr	340	55.3	48.4	62.2
			11-20yr	150	30.5	24.0	37.0
			21-30yr	41	8.0	4.4	11.5
			31-40yr	32	4.9	2.5	7.3
			41+yr	7	1.3	0.0	2.9
Trad	Classroom age (yrs)		<=10yr	30	12.4	6.7	18.1
			11-20yr	22	9.4	4.1	14.6
			21-30yr	26	18.8	10.7	26.9
			31-40yr	40	18.0	10.7	25.4
			41+yr	88	41.4	32.1	50.6
All	Classroom age (yrs)	0.00	0-3yr	149	11.9	8.3	15.5
			4-5yr	110	8.3	5.8	10.8
			6-10yr	111	8.8	5.7	11.9
			11-15yr	124	13.2	9.6	16.8
			16+yr	282	57.8	52.4	63.3
Port	Classroom age (yrs)		0-3yr	140	22.6	16.7	28.5
			4-5yr	105	18.6	13.7	23.5
			6-10yr	95	14.1	9.7	18.5
			11-15yr	108	22.1	16.8	27.5
			16+yr	122	22.5	17.3	27.8

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	Classroom age (yrs)		0-3yr	9	5.2	0.8	9.5
			4-5yr	5	1.8	0.0	3.5
			6-10yr	16	5.5	1.9	9.1
			11-15yr	16	7.6	2.6	12.6
			16+yr	160	80.0	72.8	87.2
All	Classroom age (known/unknown)	0.26	Known	776	65.9	60.3	71.5
			Unknown	357	34.1	28.5	39.7
Port	Classroom age (known/unknown)		Known	570	68.7	62.8	74.6
			Unknown	242	31.3	25.4	37.2
Trad	Classroom age (known/unknown)		Known	206	64.3	57.2	71.5
			Unknown	115	35.7	28.5	42.8
All	Major renovations/additions	0.00	Yes	316	38.8	33.2	44.5
			No	747	61.2	55.5	66.8
Port	Major renovations/additions		Yes	174	23.7	18.6	28.8
			No	589	76.3	71.2	81.4
Trad	Major renovations/additions		Yes	142	47.7	39.9	55.5
			No	158	52.3	44.5	60.1
All	Addition/wall/floor renovations	0.00	Yes	122	14.7	10.7	18.7
			No	941	85.3	81.3	89.3
Port	Addition/wall/floor renovations		Yes	60	7.5	4.3	10.7
			No	703	92.5	89.3	95.7
Trad	Addition/wall/floor renovations		Yes	62	18.9	13.0	24.7
			No	238	81.1	75.3	87.0
All	HVAC or lighting renovations	0.00	Yes	215	30.0	24.4	35.5
			No	848	70.0	64.5	75.6
Port	HVAC or lighting renovations		Yes	101	14.9	10.2	19.5
			No	662	85.1	80.5	89.8
Trad	HVAC or lighting renovations		Yes	114	38.8	31.1	46.5
			No	186	61.2	53.5	68.9
All	Roof renovations	0.00	Yes	132	19.4	14.8	24.0
			No	931	80.6	76.0	85.2
Port	Roof renovations		Yes	55	8.9	5.2	12.6
			No	708	91.1	87.4	94.8
Trad	Roof renovations		Yes	77	25.5	18.8	32.3
			No	223	74.5	67.7	81.2

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Classroom size (sq. ft.)	0.00	<600	87	9.1	5.5	12.7
			600-1100	746	59.1	53.2	65.0
			>1100	300	31.8	26.0	37.6
Port	Classroom size (sq. ft.)		<600	60	7.1	4.2	10.0
			600-1100	560	69.3	63.7	75.0
			>1100	192	23.5	18.3	28.8
Trad	Classroom size (sq. ft.)		<600	27	10.3	5.6	15.0
			600-1100	186	53.1	45.5	60.6
			>1100	108	36.7	29.2	44.1
All	Building foundation type	0.74	<Grade	700	65.5	60.1	70.9
			Slab	365	34.5	29.1	39.9
			Raised_Flr	0	0.0	0.0	0.0
Port	Building foundation type		<Grade	500	66.3	61.9	70.8
			Slab	258	33.7	29.2	38.1
			Raised_Flr	0	0.0	0.0	0.0
Trad	Building foundation type		<Grade	200	65.1	57.7	72.5
			Slab	107	34.9	27.5	42.3
			Raised_Flr	0	0.0	0.0	0.0
All	Floor Height (in)	0.00	<6	22	1.7	0.5	2.9
			6-11	197	15.0	11.1	18.9
			12-17	268	17.7	13.8	21.5
			18+	170	15.0	10.7	19.4
			NA/Unk	284	50.6	45.3	55.8
Port	Floor Height (in)		<6	20	3.3	0.7	5.8
			6-11	184	28.0	22.1	33.9
			12-17	250	33.8	27.5	40.2
			18+	149	23.8	18.2	29.5
			NA/Unk	87	11.0	7.4	14.6
Trad	Floor Height (in)		<6	2	0.7	0.0	1.8
			6-11	13	6.4	1.5	11.3
			12-17	18	7.0	2.7	11.2
			18+	21	9.2	3.2	15.2
			NA/Unk	197	76.7	68.8	84.6

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Roof type	0.00	Membrane	71	10.1	6.4	13.8
			Composite	277	35.7	29.4	42.1
			Tar/gravel	95	16.7	11.2	22.1
			Metal	456	29.5	24.6	34.5
			Other	55	8.0	4.9	11.1
Port	Roof type		Membrane	35	4.1	1.9	6.3
			Composite	164	29.1	22.5	35.6
			Tar/gravel	50	8.7	4.4	12.9
			Metal	413	54.2	47.4	61.0
			Other	25	4.0	1.6	6.4
Trad	Roof type		Membrane	36	13.6	8.2	19.1
			Composite	113	39.7	31.8	47.6
			Tar/gravel	45	21.4	13.9	28.9
			Metal	43	15.0	8.9	21.1
			Other	30	10.3	5.9	14.8
All	Roof pitch	0.28	Flat	458	46.5	40.5	52.5
			Sloped	419	42.1	36.3	47.9
			Both	100	11.4	7.3	15.5
Port	Roof pitch		Flat	350	48.5	41.6	55.4
			Sloped	289	43.1	36.3	50.0
			Both	63	8.4	4.7	12.0
Trad	Roof pitch		Flat	108	45.3	37.2	53.4
			Sloped	130	41.5	33.7	49.3
			Both	37	13.2	7.5	18.9
All	Suspended ceilings	0.00	Yes	736	71.6	66.1	77.1
			No	196	28.4	22.9	33.9
Port	Suspended ceilings		Yes	591	86.5	81.9	91.1
			No	88	13.5	8.9	18.1
Trad	Suspended ceilings		Yes	145	62.4	54.6	70.2
			No	108	37.6	29.8	45.4
All	Load dock/parking/road in 50ft	0.07	Yes	507	44.0	38.4	49.6
			No	556	56.0	50.4	61.6
Port	Load dock/parking/road in 50ft		Yes	386	49.1	43.1	55.2
			No	377	50.9	44.8	56.9
Trad	Load dock/parking/road in 50ft		Yes	121	41.0	33.3	48.7
			No	179	59.0	51.3	66.7

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Dumpster within 50ft	0.39	Yes	85	6.5	4.0	8.9
			No	978	93.5	91.1	96.0
Port	Dumpster within 50ft		Yes	63	7.4	4.7	10.2
			No	700	92.6	89.8	95.3
Trad	Dumpster within 50ft		Yes	22	5.9	2.8	9.0
			No	278	94.1	91.0	97.2
All	Spec purpose rooms within 50ft	0.00	Yes	466	50.3	44.6	55.9
			No	597	49.7	44.1	55.4
Port	Spec purpose rooms within 50ft		Yes	287	35.9	30.2	41.7
			No	476	64.1	58.3	69.8
Trad	Spec purpose rooms within 50ft		Yes	179	58.7	51.2	66.2
			No	121	41.3	33.8	48.8
All	Peeling paint inside	0.01	Yes	14	2.3	0.7	3.8
			No	1049	97.7	96.2	99.3
Port	Peeling paint inside		Yes	3	0.4	0.0	1.0
			No	760	99.6	99.0	100.0
Trad	Peeling paint inside		Yes	11	3.3	1.0	5.7
			No	289	96.7	94.3	99.0
All	Peeling paint outside	0.25	Yes	130	10.6	7.6	13.5
			No	933	89.4	86.5	92.4
Port	Peeling paint outside		Yes	91	12.3	8.3	16.3
			No	672	87.7	83.7	91.7
Trad	Peeling paint outside		Yes	39	9.5	5.9	13.1
			No	261	90.5	86.9	94.1
All	Peeling paint in or out	0.50	Yes	137	11.5	8.4	14.5
			No	926	88.5	85.5	91.6
Port	Peeling paint in or out		Yes	92	12.6	8.5	16.6
			No	671	87.4	83.4	91.5
Trad	Peeling paint in or out		Yes	45	10.9	7.1	14.6
			No	255	89.1	85.4	92.9
All	Packaged HVAC	0.00	Yes	760	69.6	63.8	75.4
			No	86	16.1	11.2	20.9
			DK	118	11.8	7.5	16.2
			NA	18	2.5	0.7	4.3

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Packaged HVAC		Yes	585	80.8	75.6	86.1
			No	32	5.2	2.2	8.2
			DK	84	12.5	8.0	17.1
			NA	10	1.4	0.1	2.7
Trad	Packaged HVAC		Yes	175	62.9	54.8	71.0
			No	54	22.6	15.1	30.1
			DK	34	11.4	6.6	16.3
			NA	8	3.1	0.5	5.7
All	Main AHU Location	0.00	Wall	670	51.1	45.5	56.6
			Roof	201	34.7	29.1	40.2
			Floor/Othr	27	4.3	1.8	6.8
			DK	47	5.8	2.4	9.2
			NA	26	4.1	0.9	7.4
Port	Main AHU Location		Wall	590	81.4	75.8	87.0
			Roof	66	10.8	6.0	15.7
			Floor/Othr	9	1.3	0.0	2.8
			DK	32	4.4	2.0	6.7
			NA	16	2.0	0.4	3.7
Trad	Main AHU Location		Wall	80	31.6	23.9	39.4
			Roof	135	50.0	41.5	58.4
			Floor/Othr	18	6.2	2.6	9.8
			DK	15	6.7	1.9	11.4
			NA	10	5.5	0.4	10.6
All	Central cooling system	0.66	Yes	783	78.4	73.2	83.7
			No	194	20.3	15.1	25.4
			DK	0	0.0	0.0	0.0
			NA	14	1.3	0.1	2.5
Port	Central cooling system		Yes	569	77.4	71.9	82.9
			No	149	20.9	15.5	26.3
			DK	0	0.0	0.0	0.0
			NA	11	1.7	0.0	3.4
Trad	Central cooling system		Yes	214	79.1	72.2	86.1
			No	45	19.9	12.9	26.8
			DK	0	0.0	0.0	0.0
			NA	3	1.0	0.0	2.2

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	HVAC supply fan operation	0.00	Auto	795	70.0	63.7	76.2
			Always_on	144	17.5	12.4	22.6
			Other/unspe	73	12.5	7.5	17.5
Port	HVAC supply fan operation		Auto	594	78.1	72.4	83.9
			Always_on	92	12.8	8.2	17.4
			Other/unspe	46	9.1	4.9	13.2
Trad	HVAC supply fan operation		Auto	201	65.2	57.2	73.1
			Always_on	52	20.4	14.0	26.7
			Other/unspe	27	14.5	7.8	21.2
All	Outdoor damper min setting	0.43	<=10%	57	5.8	2.2	9.3
			11-20%	160	20.1	14.7	25.4
			21-40%	45	4.1	1.3	6.9
			>40%	37	3.2	1.0	5.3
			Unknown	678	66.9	60.4	73.4
Port	Outdoor damper min setting		<=10%	43	7.3	2.6	11.9
			11-20%	107	18.4	13.0	23.9
			21-40%	34	3.2	1.5	5.0
			>40%	28	3.7	1.1	6.4
			Unknown	496	67.4	60.6	74.1
Trad	Outdoor damper min setting		<=10%	14	4.8	1.3	8.4
			11-20%	53	21.0	14.7	27.4
			21-40%	11	4.7	1.0	8.4
			>40%	9	2.9	0.7	5.0
			Unknown	182	66.6	59.1	74.1
All	Plenum open	0.00	Yes	253	20.7	15.7	25.7
			No	810	79.3	74.3	84.3
Port	Plenum open		Yes	208	28.4	22.3	34.5
			No	555	71.6	65.5	77.7
Trad	Plenum open		Yes	45	16.2	10.1	22.3
			No	255	83.8	77.7	89.9
All	HVAC fiberglass mesh filter	0.01	Yes	414	34.6	28.4	40.7
			No	649	65.4	59.3	71.6
Port	HVAC fiberglass mesh filter		Yes	309	40.2	33.7	46.8
			No	454	59.8	53.2	66.3
Trad	HVAC fiberglass mesh filter		Yes	105	31.3	24.3	38.3
			No	195	68.7	61.7	75.7

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	HVAC pleated filter	0.27	Yes	259	26.2	20.0	32.3
			No	804	73.8	67.7	80.0
Port	HVAC pleated filter		Yes	186	24.1	18.4	29.8
			No	577	75.9	70.2	81.6
Trad	HVAC pleated filter		Yes	73	27.4	20.1	34.6
			No	227	72.6	65.4	79.9
All	HVAC high efficiency filter	0.83	Yes	149	13.3	9.4	17.2
			No	914	86.7	82.8	90.6
Port	HVAC high efficiency filter		Yes	105	13.0	8.9	17.1
			No	658	87.0	82.9	91.1
Trad	HVAC high efficiency filter		Yes	44	13.4	8.8	18.1
			No	256	86.6	81.9	91.2
All	Thermostat control	0.00	Teacher	458	33.6	28.1	39.2
			Others	117	10.2	6.6	13.8
			Both	458	54.0	48.1	59.9
			DK	2	0.4	0.0	1.1
			NA	13	1.8	0.3	3.2
Port	Thermostat control		Teacher	366	45.1	38.7	51.5
			Others	84	11.2	7.2	15.3
			Both	295	42.1	35.5	48.7
			DK	1	0.4	0.0	1.2
			NA	8	1.1	0.0	2.4
Trad	Thermostat control		Teacher	92	26.8	20.3	33.3
			Others	33	9.6	5.2	13.9
			Both	163	61.1	53.8	68.5
			DK	1	0.4	0.0	1.1
			NA	5	2.1	0.0	4.3
All	Space heaters used	0.55	Yes	114	11.5	7.5	15.6
			No	949	88.5	84.4	92.5
Port	Space heaters used		Yes	80	12.3	7.8	16.7
			No	683	87.7	83.3	92.2
Trad	Space heaters used		Yes	34	11.1	6.8	15.5
			No	266	88.9	84.5	93.2
All	Water damage past 3 yrs (FM)	0.14	Yes	207	23.5	18.0	29.0
			No	756	71.4	65.4	77.4
			DK	58	5.0	2.2	7.9

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Port	Water damage past 3 yrs (FM)		Yes	147	22.9	18.0	27.8
			No	545	69.9	64.4	75.4
			DK	45	7.2	3.7	10.7
Trad	Water damage past 3 yrs (FM)		Yes	60	23.9	16.6	31.2
			No	211	72.4	64.8	79.9
			DK	13	3.8	0.6	6.9
All	Roof leaks last 3 yrs (FM)	0.87	Yes	185	19.7	14.7	24.7
			No	878	80.3	75.3	85.3
Port	Roof leaks last 3 yrs (FM)		Yes	134	19.4	14.8	23.9
			No	629	80.6	76.1	85.2
Trad	Roof leaks last 3 yrs (FM)		Yes	51	19.9	13.1	26.7
			No	249	80.1	73.3	86.9
All	Visible mold past 3 yrs (FM)	0.33	Yes	48	3.8	2.1	5.5
			No	921	90.0	86.0	93.9
			DK	51	6.3	2.6	9.9
Port	Visible mold past 3 yrs (FM)		Yes	33	4.9	2.4	7.3
			No	670	89.6	85.7	93.4
			DK	36	5.6	2.5	8.7
Trad	Visible mold past 3 yrs (FM)		Yes	15	3.1	1.3	4.9
			No	251	90.2	85.3	95.1
			DK	15	6.7	2.0	11.3
All	Standing water within 50ft	0.47	Yes	365	34.1	28.2	40.0
			No	638	61.2	55.0	67.4
			DK	33	4.7	0.7	8.7
Port	Standing water within 50ft		Yes	276	36.3	30.3	42.2
			No	446	60.2	54.1	66.3
			DK	24	3.5	1.1	5.9
Trad	Standing water within 50ft		Yes	89	32.8	25.5	40.0
			No	192	61.8	54.0	69.6
			DK	9	5.4	0.1	10.8
All	New pressed wood last yr	0.27	Yes	332	31.5	25.4	37.5
			No	572	57.5	50.9	64.1
			DK	105	11.0	6.7	15.4
Port	New pressed wood last yr		Yes	248	33.9	27.7	40.0
			No	408	54.0	47.4	60.6
			DK	74	12.1	7.1	17.2

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
Trad	New pressed wood last yr		Yes	84	30.0	22.9	37.2
			No	164	59.5	51.7	67.3
			DK	31	10.4	5.5	15.3
All	Paint/caulk/seal last yr	0.56	Yes	226	23.0	17.7	28.3
			No	719	69.8	63.8	75.8
			DK	63	7.2	3.3	11.2
Port	Paint/caulk/seal last yr		Yes	159	20.6	15.5	25.7
			No	520	71.8	66.0	77.5
			DK	47	7.6	3.9	11.4
Trad	Paint/caulk/seal last yr		Yes	67	24.4	17.5	31.4
			No	199	68.6	60.9	76.3
			DK	16	7.0	2.1	11.9
All	New carpet past yr	0.21	Yes	217	18.4	14.0	22.8
			No	846	81.6	77.2	86.0
Port	New carpet past yr		Yes	166	20.9	15.7	26.1
			No	597	79.1	73.9	84.3
Trad	New carpet past yr		Yes	51	16.9	11.5	22.3
			No	249	83.1	77.7	88.5
All	New flooring past yr	0.96	Yes	278	25.2	20.0	30.3
			No	589	55.1	48.7	61.4
			DK	196	19.8	14.0	25.6
Port	New flooring past yr		Yes	205	25.8	20.2	31.4
			No	413	54.7	48.4	60.9
			DK	145	19.5	14.5	24.5
Trad	New flooring past yr		Yes	73	24.8	18.3	31.2
			No	176	55.3	47.5	63.1
			DK	51	19.9	12.9	27.0
All	Pesticide use past yr (FM)	0.17	Yes	231	19.0	14.1	23.9
			No	700	72.8	67.0	78.7
			DK	74	8.2	4.4	12.0
Port	Pesticide use past yr (FM)		Yes	163	21.7	15.9	27.6
			No	509	71.3	65.1	77.5
			DK	52	7.0	3.9	10.1
Trad	Pesticide use past yr (FM)		Yes	68	17.4	12.2	22.6
			No	191	73.7	67.1	80.3
			DK	22	8.9	4.2	13.7

Classroom Type	Classification Variable	p-Value Wald Chi^2	Category	Sample Size	Est. Pop. Percent	Approx. Lower 95% Limit	Approx. Upper 95% Limit
All	Crack/crevice pesticides last yr	0.07	Yes	83	5.7	3.0	8.4
			No	980	94.3	91.6	97.0
Port	Crack/crevice pesticides last yr		Yes	60	7.6	3.4	11.8
			No	703	92.4	88.2	96.6
Trad	Crack/crevice pesticides last yr		Yes	23	4.6	2.4	6.8
			No	277	95.4	93.2	97.6
All	Spray can pesticides last yr	0.34	Yes	91	7.7	4.5	11.0
			No	972	92.3	89.0	95.5
Port	Spray can pesticides last yr		Yes	62	8.8	5.1	12.5
			No	701	91.2	87.5	94.9
Trad	Spray can pesticides last yr		Yes	29	7.1	3.5	10.7
			No	271	92.9	89.3	96.5
All	Fluorescent bulbs	0.17	T8	559	51.6	45.2	57.9
			T12	283	25.4	19.8	31.1
			Both	3	0.2	0.0	0.6
			No/DK	218	22.8	17.0	28.6
Port	Fluorescent bulbs		T8	401	47.2	40.8	53.5
			T12	205	29.8	23.5	36.1
			Both	2	0.2	0.0	0.5
			No/DK	155	22.9	17.3	28.5
Trad	Fluorescent bulbs		T8	158	54.1	46.4	61.9
			T12	78	22.9	16.2	29.6
			Both	1	0.2	0.0	0.6
			No/DK	63	22.8	16.1	29.4