



DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
CENTER FOR DISEASE CONTROL

November 30, 1978

NATIONAL INSTITUTE FOR OCCUPATIONAL
SAFETY AND HEALTH — ALOSH
944 CHESTNUT RIDGE ROAD
MORGANTOWN, WEST VIRGINIA 26505

PLAINTIFF'S
EXHIBIT
CAM-320

Mr. Gordon J. Gill
Technical Director, Talc Division
Cyprus Industrial Minerals Company
555 South Flower Street
Los Angeles, California 90071

Gordon
Dear Mr. GILL:

Enclosed are preliminary tables of the medical data collected earlier this year. I have included the data from your individual mine and mill as well as combined results from Montana. We will be doing a more extensive and detailed analysis of the data, including the results of before and after shift breathing tests, and comparison of pulmonary function, symptoms, and x-ray findings with control groups.

Pneumoconiosis is Grade 1 or greater of rounded or irregular opacities and pleural thickening is grade 1 and 2 as read by three radiologists using the standard ILO/UC films for pneumoconiosis. FEV₁ is Forced Expiratory Flow in one second, FVC is Forced Vital Capacity, and FEF₅₀ is Forced Expiratory Flow at 50% of FVC. Breathing obstruction is defined as an FEV₁/FVC ratio less than 70%. Cough is defined as answering yes to the question: "Do you usually cough first thing in the morning and/or during the day in the winter for as much as three months each year?" Bronchitis is defined as answering yes to the question: "Do you usually bring up any phlegm from your chest first thing in the morning in the winter and/or during the day in the winter?" Mild shortness of breath is defined as answering yes to the question: "Are you troubled by shortness of breath when hurrying on level ground or walking up a slight hill?" Moderate shortness of breath as answering yes to the question: "Do you get short of breath walking with other people of your own age on level ground?" Severe shortness of breath as answering yes to the question: "Do you have to stop for breath when walking at your own pace on level ground?"

If you have any questions, feel free to call me at (304) 599-7476.

Sincerely,

John F. Gamble

John F. Gamble, Ph.D., Chief,
Epidemiology & Statistics Section

Enclosure

cc: Jack Boettner
P.O. Box 1502
Grand Island, NE 68801

W.W. Baskins
P.O. Box 977
Three Forks, MT 59752

Elton Hogg
P.O. Box 7187
Pima Mine Road
Tucson, AZ 85725

PERCENT & NUMBER OF WORKERS WITH PNEUMOCOCCUS FOR 216 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

MONTANA REGION

TALL EXPOSURE (YEARS)	<20			20-29			30-39			40-49			50-59			>=60			TOTAL		
	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	4	0	2	12	15	1	1	1	1	1	1	1	1	1	1	1	1	4	17	20
10-14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	1	0	0	5	10	15	3	2	2	1	1	1	1	1	1	1	1	1	11	13	17
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P=EX-SMOKER	2	4	2	9	27	38	10	9	31	13	8	22	8	16	14	4	3	2	46	61	109
N=NON-SMOKER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S=SMOKER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PERCENT & NUMBER OF WORKERS WITH PLEURAL THICK FOR 216 WORKERS BY AGES SMOKING STATUS, & EXPOSURE

MONTANA REGION

TALC EXPOSURE (YEARS)	<20	AGE												TOTAL			
		20-29			30-39			40-49			50-59			>=60			
		N	S	P	N	S	P	N	S	P	N	S	P	N	S	P	
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	2	2	1	1	1	1	1	1	1	1	1	4	17	20	
5-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	5	15	3	2	2	1	1	1	1	1	1	1	11	13	17	
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

S=EX-SMOKER
N=NON-SMOKER

CELLS KEY: PERCENT DIAGNOSED PLEURAL THICK
NUMBER DIAGNOSED PLEURAL THICK
NUMBER IN CATEGORY

30%

(in Assured)

1/1/1981

PERCENT & NUMBER OF WORKERS WITH MASSIVE FIBROSIS FOR 216 WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

MONTANA REGION

AGE

TALC EXPOSURE (YEARS)	<20			20-29			30-39			40-49			50-59			>=60			TOTAL
	F	S	N	F	S	N	F	S	N	F	S	N	F	S	N	F	S	N	
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	0	2	2	12	15	1	1	1	1	1	1	1	1	1	1	1	1	20
10-14	1	0	0	5	15	3	2	2	1	1	1	1	0	0	0	11	13	17	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	2	9	27	19	10	9	31	13	8	22	8	10	14	4	3	2	109

F=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT OF WORKERS WITH MASSIVE FIBROSIS
NUMBER OF WORKERS WITH MASSIVE FIBROSIS
NUMBER IN CATEGORY

MEAN PFT50 FOR 224 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

MONTANA REGION

PFT50 (YEARS)	C21		20-29		30-39		40-49		50-59		60-69		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<4	579	482	500	476	531	499	362	469	245	150	140	473	515	457
5-9	209	---	---	---	---	---	---	---	---	---	---	---	---	---
10-14	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15-19	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20-24	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25-29	---	---	---	---	---	---	---	---	---	---	---	---	---	---
>=30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	395	482	500	476	531	499	362	469	245	150	140	473	515	457

PFT50 IS IN CENTILITERS PER SECOND

E=EX-SMOKER

N=NON-SMOKER

SE=SEMI-SMOKER

CELLS KEY: MEAN PFT50

NUMBER IN CATEGORY

TABLE PPV1 POP 208 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

MONTANA REGION

TABLE EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	P	N	P	N	P	N	P	N	P	N	P	N	P	N
<=9	453	423	444	415	472	428	274	448	285	258	184	384	457	407
	1	6	3	2	14	16	1	1	1	1	1	4	21	21
5-9	260	---	---	---	453	444	317	402	370	272	280	360	435	440
	1	---	6	6	12	16	3	2	1	1	---	12	15	17
10-14	---	---	370	407	407	400	318	445	350	240	222	325	384	375
	---	---	2	2	5	6	3	2	6	1	2	6	10	14
15-19	---	---	---	---	---	424	426	370	345	421	423	424	320	372
	---	---	---	---	2	2	1	5	12	1	2	1	3	17
20-24	---	---	---	---	372	534	---	---	422	294	---	391	348	370
	---	---	---	---	1	1	1	1	1	1	---	6	3	16
25-29	---	---	---	---	---	---	---	325	358	400	316	322	358	371
	---	---	---	---	---	---	---	6	1	7	2	8	1	9
>=30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	356	423	444	423	461	435	356	445	360	302	311	361	401	374
	3	6	3	3	11	11	10	11	29	10	8	23	48	41

PPV1 IS IN CATEGORIES PER SECOND

P=PA-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PPV1
NUMBER IN CATEGORY

WUJIAH FENG

TALC EXPOSURE (YEARS)	<70				70-79				80-89				90-99				≥100				TOTAL
	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E	
<5	542	502	553	479	564	520	335	580	406	---	---	411	---	---	---	---	299	---	---	---	592
	1	6	3	5	16	16	1	1	1	---	---	1	---	---	---	---	1	---	---	---	21
5-9	359	---	---	565	547	571	425	525	529	346	494	---	---	---	---	---	---	---	---	---	568
	1	---	---	6	12	16	3	2	1	1	1	---	---	---	---	---	---	---	---	---	17
10-14	---	---	---	595	503	564	450	575	445	330	303	357	---	---	---	---	---	---	---	---	483
	---	---	---	2	5	6	3	2	6	1	1	2	---	---	---	---	---	---	---	---	14
15-19	---	---	---	---	---	543	539	455	497	584	---	497	---	---	---	---	353	345	---	---	493
	---	---	---	---	---	2	2	5	12	1	1	2	---	---	---	---	2	1	---	---	17
20-24	---	---	---	---	---	507	573	---	500	539	478	489	662	384	---	---	---	---	---	---	496
	---	---	---	---	---	1	1	---	9	3	2	6	1	1	---	---	---	---	---	---	16
25-29	---	---	---	---	---	---	---	---	---	463	551	537	392	---	---	---	426	---	---	---	513
	---	---	---	---	---	---	---	---	---	6	1	7	2	---	---	---	2	---	---	---	9
>30	---	---	---	---	---	---	---	599	---	479	382	445	460	493	347	403	467	520	495	457	422
	---	---	---	---	---	---	---	1	---	2	3	5	4	5	10	3	2	2	9	11	17
TOTAL	450	502	559	535	556	547	471	514	485	472	420	480	454	435	385	378	374	520	473	502	496
	2	6	2	10	31	41	16	11	29	10	8	23	0	9	14	9	4	2	28	69	111

IS IN CENTRAL

E = X - 540 KEA

K=NON-5MOXER

$\text{C}_6\text{H}_{10}\text{N}_2 = 5$

CELLS KAT: 14K 5733
NAME: P/C
ADDRESS: 11100 N. CAYCE RD

PERCENT & NUMBER OF WORKERS WITH BREATHING OBSTRUCTION FOR 228 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

MONTANA REGION

TALC EXPOSURE CATEGORY	C20			AGE									40-49									50-59									>=60									TOTAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S	F	M	S																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
C=0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

D=EX-SMOKER
N=NON-SMOKER
S=SMOKER

C20S KEY: PERCENT DIAGNOSED BREATHING OBSTRUCTION
NUMBER DIAGNOSED BREATHING OBSTRUCTION
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BRONCHITIS FOR 235 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

MONTANA REGION

TALC EXPOSURE (YEARS)	≤20		20-29		30-39		40-49		50-59		≥60		TOTAL							
	S	N	S	N	S	N	S	N	S	N	S	N	S	N						
<=4	0	0	21	29	103	0	0	0	0	0	103	0	25	14	27					
			1	5	1						1		1	3	6					
	1	6	10	17	1	1	1	1			1		4	21	22					
5-9	0	0	17	44	0	0	0	0	0	0	0	0	0	0	19					
			1	7									1	7	7					
	1	1	6	12	16	3	2	1	1	1			12	15	18					
10-14	0	0	2	17	33	50	13	0	0	0	0	0	17	20	18					
			1	1	1	1	1	1					1	2	3					
	2	0	0	6	3	2	8	1	1	1		1	6	10	17					
15-19	0	0	0	0	0	0	31	0	0	0	0	0	0	0	28					
							4								5					
	0	0	2	2	5	13	1	1	2	2	1	1	3	8	18					
20-24	0	0	0	0	0	0	22	33	0	33	0	0	33	0	25					
							2	1	2				2		4					
	1	1	1	1	1	3	9	3	2	6	1	1	6	3	16					
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11					
							1	1	1	1			1		5					
	0	0	0	0	0	0	6	1	1	1	2	2	8	1	9					
>=30	0	0	0	0	0	0	0	33	40	0	0	53	67	0	0	22	0	8	41	
								1	2			5	2			2	1	7		
	0	0	0	0	0	0	1	3	5	4	6	10	3	2	2	9	12	17		
TOTAL	0	0	10	33	31	20	09	21	14	13	29	0	0	43	75	0	0	17	29	28
			1	4	13	2	1	7	2	1	7			6	3			8	6	33
	2	6	10	31	42	10	11	33	14	8	24	8	10	14	4	2	48	70	117	
SEX-SMOKER																				
N=NON-SMOKER																				
S=SMOKER																				
CELLS KEY: PERCENT DIAGNOSED BRONCHITIS																				
NUMBER DIAGNOSED BRONCHITIS																				
NUMBER IN CATEGORY																				

THE ABOVE IS A SUMMARY OF THE INFORMATION CONTAINED IN THE ATTACHED DOCUMENTS. THE INFORMATION IS UNCLASSIFIED AND IS BEING RELEASED TO YOU FOR YOUR INFORMATION.

MONTANA REGION																			
TALC EXPOSURE (YEARS)	20-29			30-39			40-49			50-59			>=60			TOTAL			
	S	N	C	S	N	C	S	N	C	S	N	C	S	N	C	S	N	C	
<=4	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	25	15	36	
	1	1	1	6												1	1	2	
	2	15	17	1	1	1										6	21	22	
5-9	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	20	33	
	1	1	2	6				1								3	6	9	
	6	12	18	3	2	2	1	1		1						12	15	18	
10-14	0	0	0	0	0	13	0	0	33	0	0	0	0	0	0	0	10	12	
	1	1	2	5				1								1	1	2	
	2	5	7	3	2	8	1	1	3	1	1					6	10	17	
15-19	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	28	
	1	1	2	5				5								3	8	18	
	2	2	4	2	5	13	1	2		2	1					1	3	5	
20-24	0	0	0	0	0	33	0	0	33	0	0	0	0	0	0	17	0	31	
	1	1	2	1	1	3			2	1	1					1	1	3	
	2	2	4	1	1	9	3	2	6	1	1	1				6	3	16	
25-29	0	0	0	0	0	33	0	0	43	0	0	0	0	0	0	25	0	33	
	1	1	2	2				2								2	3	5	
	2	2	4	1	1	6	1	7		2	2					0	1	9	
>=30	0	0	0	0	0	27	0	13	40	0	0	0	0	0	0	0	28	47	
	1	1	2	12				1	2							1	1	8	
	2	2	4	10	11	33	14	3	5	4	6	1	3	2	2	9	12	17	
TOTAL	0	0	5	1	29	0	27	14	25	33	0	0	50	25	25	0	68	99	
	1	1	2	12	1	9	2	2	8	0	0	0	7	1	1	4	6	17	
	2	2	4	10	11	33	14	8	24	8	10	14	4	4	4	2	48	70	
	3	3	6	12	3	14	24	14	24	12	16	24	12	12	12	12	48	70	

P=EX-SMOKER
N=NON-SMOKER
S=SHOKER

CELLS KEY: PRECIPITATION DIAPYCNOSIS COUGH
NUMBER DIAPYCNOSIS COUGH
NUMBER IN CATEGORY

CAMC-Abeyta-001823

NUMBER OF WORKERS WITH SHORTNESS OF BREATH FOR 334 WORKERS

MONTANA REGION

AGE

CALC EXPOSURE (YEARS)	20-29			30-39			40-49			50-59			>=60			TOTAL		
	N	S	F	N	S	F	N	S	F	N	S	F	N	S	F	N	S	F
<=4	001	026	000	014	011	0	001	0	001	0	001	0	001	0	001	021	014	0
	0	0	0	006	001	0	001	0	001	0	001	0	001	0	001	0	008	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	001	000	000	001	014	002	001	001	001	001	001	001	001	001	001	012	015	0
	0	0	0	002	0	0	001	0	0	0	0	0	0	0	0	002	003	0
	0	0	0	001	0	001	0	0	0	0	0	0	0	0	0	001	001	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	000	000	000	000	002	002	001	0	001	0	001	0	001	0	001	000	012	0
	0	0	0	001	0	0	001	0	002	0	001	0	001	0	001	001	004	0
	0	0	0	0	0	0	0	0	001	0	001	0	0	0	0	0	001	0
	0	0	0	0	0	0	001	0	0	0	0	0	0	0	0	001	0	0
15-19	001	001	001	001	012	001	001	001	001	001	001	001	001	001	001	002	005	014
	001	001	001	002	001	0	001	001	001	0	001	001	001	001	001	001	003	004
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	001	001	001	000	003	001	001	001	001	001	001	001	001	001	001	005	002	010
	0	0	0	002	0	001	001	001	001	0	0	0	0	0	0	0	001	005
	0	0	0	001	0	0	0	0	0	0	0	0	0	0	0	001	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
>=30	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
TOTAL	002	006	000	024	012	006	009	026	007	004	012	007	008	007	001	003	008	000
	0	0	0	002	010	002	002	006	005	003	011	001	001	001	001	009	008	005
	0	0	0	001	0	001	0	001	001	0	0	0	0	0	0	003	001	002
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	002	002	0

PER-SMO KEY

N=NON-SMOKER

S=SMOKER

CELLS KEY: NUMBER WITH NO SHORTNESS OF BREATH
NUMBER WITH MILD SHORTNESS OF BREATH
NUMBER WITH MODERATE SHORTNESS OF BREATH

DEMOGRAPHIC DATA FOR 235 WEEKS

MONTANA REGION

PRINCIPAL WORK AREA	MEAN AGE	WHITE EXPOSURE	SEX		RACE		PERCENT WHITE		PERCENT SMOKERS		SMOKING STATUS *	
			MALE	FEMALE	BLACK	OTHER	PERCENT	PERCENT	PERCENT	PERCENT	EX-SMOKERS	NON-SMOKERS
EXPOSED	35.0	15.3	80.2	20.1	0.0	0.0	99.1	99.1	49.8	20.4	29.8	
UNEXPOSED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTALS	35.0	15.3	80.2	20.1	0.0	0.0	99.1	99.1	49.8	20.4	29.8	

235 TATC WEEKS

0 OTHER WORK

NON-SMOKERS ARE THOSE WHO HAVE SMOKED LESS THAN 6 MONTHS
EX-SMOKERS ARE THOSE WHO HAVE NOT BEEN SMOKING FOR THE PAST SIX MONTHS

PERCENT & NUMBER OF WORKERS WITH PNEUMOCOCCUS FOR 20 WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

CYPRUS GRAND ISLAND

TALL EXPOSURE (VARIABLE)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL
	E	N	E	N	E	N	E	N	E	N	E	N	
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	0	1	0	0	0	0	0	0	0	0	0	2
10-14	0	0	1	1	2	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	1	0	0	0	0	0	0	0	0	0	2
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	1	1	1	2	2	2	2	2	2	2	2	12

3000-SMOK=P
N=NON-SMOKER
S=SMOKER

CRUISE KEY: PRESENT DIAGNOSED PNEUMOCOCCUS
NUMBER DIAGNOSED PNEUMOCOCCUS
NUMBER IN CAVINERY

PERCENT & NUMBER OF WORKERS WITH PLEURAL THICK FOR 20 WORKERS BY AGE SMOKING STATUS, & EXPOSURE

CYPRUS GRAND ISLAND

TASC EXPOSURE (YEARS)	AGE															TOTAL		
	<20			20-29			30-39			40-49			50-59				>=60	
	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S
<=4																		
5-9																		
10-14																		
15-19																		
20-24																		
25-29																		
>=30																		
TOTAL																		

E=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED PLEURAL THICK
NUMBER DIAGNOSED PLEURAL THICK
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH MASSIVE FIBROSIS FOR 20 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS GRAND ISLAND

TALC EXPOSURE (PPBS)	AGE												TOTAL		
	<20			20-29			30-39			40-49				>=60	
	F	N	S	F	N	S	F	N	S	F	N	S	F	N	S
<=4			0			0									0
			1			1									2
5-9			0		0	0							0	0	0
			1		1	2							1	1	2
10-14													0		
			2										2		
15-19									0		0				0
									1						2
20-24			0			0									0
			1			1									2
25-29											0				0
											1				1
>=30										0	0	0			0
										1	2	2			4
TOTAL			0		0	0		0		0	0	0		0	0
			1		1	4		2		2	3	2		7	12

F=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: PERCENT DIAGNOSED MASSIVE FIBROSIS

NUMBER DIAGNOSED MASSIVE FIBROSIS

NUMBER IN CATEGORY

MEAN FEPSO FOR 20 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS GRAND ISLAND

CALC EXPOSURE (YEARS)	AGE												TOTAL
	<20		20-29		30-39		40-49		50-59		>=60		
	E	N	E	N	E	N	E	N	E	N	E	N	S
<4	---	---	---	---	---	---	---	---	---	---	---	---	467 2
5-9	---	---	---	---	---	---	---	---	---	---	---	---	482 607 402 1 1 2
10-14	---	---	---	---	---	---	---	---	---	---	---	---	385 2
15-19	---	---	---	---	---	---	---	---	---	---	---	---	517 2
20-24	---	---	---	---	---	---	---	---	---	---	---	---	393 2
25-29	---	---	---	---	---	---	---	---	---	---	---	---	363 1
>=30	---	---	---	---	---	---	---	---	---	---	---	---	278 191 3 4
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	350 607 360 7 12

FEPSO IS IN CENTILITERS PER SECOND

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS RSV: MEAN FEPSO

NUMBERS IN CATEGORY

MEAN FEV1 FOR 20 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS GRAND ISLAND

AGE

TALC EXPOSURE (YEARS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL	
	F	N	F	N	F	N	F	N	F	N	F	N	F	N
<=4	499	1	426	1									462	2
5-9	450	1	433	2							456	1	433	471
10-14	379	3									379	2		
15-19					407	1	439	1					423	2
20-24			372	1	372	1							372	2
25-29							355	1					355	1
>=30							167	1	341	2	176	2	298	4
TOTAL	499	1	433	4	389	2	361	2	373	2	176	2	352	374

FEV1 IS IN CENTILITERS PER SECOND

F=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN FEV1

NUMBER IN CATEGORY

FVC

CYPRUS GRAND ISLAND

[illegible]

PVC IS IN CEMENTS

EX-50X5R

$$M = \text{MCM} - 5 \text{ MCM} = 2$$

5 = 5XOXE B

CELLS KEY: MEAN PVC

NUMBER IN CIRCLES

PERCENT & NUMBER OF WORKERS WITH BREATHING OBSTRUCTION FOR 20 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS GRAND ISLAND

AGE 40-49 50-59 >=60 TOTAL

TOTAL EXPOSURE (YR) 20-29 30-39 40-49 50-59 >=60 TOTAL

AGE	20-29	30-39	40-49	50-59	>=60	TOTAL
<4	0	0	0	0	0	0
5-9	1	0	0	0	0	1
10-14	1	1	2	0	0	4
15-19	2	0	0	0	0	2
20-24	1	1	1	0	0	3
25-29	0	0	0	0	0	0
>=30	0	0	0	0	0	0
TOTAL	4	1	2	0	0	7

EX-SMOKER
NON-SMOKER
SMOKER

CELLS KEY: PERCENT DIAGNOSED BREATHING OBSTRUCTION
NUMBER DIAGNOSED BREATHING OBSTRUCTION
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BRONCHITIS FOR 20 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS GRAME ISLAND

TALC EXPOSURE (YR/MS)	<20			20-29			30-39			AGE			50-59			>=60			TOTAL		
	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S
<=4	0			0																	0
5-9	1			1																	2
10-14																					0
15-19																					50
20-24																					0
25-29																					2
>=30																					50
TOTAL																					100
E=EX-SMOKER																					1
N=NON-SMOKER																					1
S=SMOKER																					1
CELLS KEY: PERCENT DIAGNOSED BRONCHITIS																					50
NUMBER DIAGNOSED BRONCHITIS																					2
NUMBER IN CATEGORY																					4

PERCENT & NUMBER OF WORKERS WITH COUGH FOR 20 WORKERS BY AGE SMOKING STATUS, & EXPOSURE

CYPRUS GRAND ISLAND

DATE EXPOSURE (YEARS)	AGE										TOTAL
	<20	20-29	30-39	40-49	50-59	>=60					
	S	S	S	S	S	S	P	P	P	P	S
<=4	100	0									50
	1	1									1
5-9		50									2
		1									1
10-14		2									2
											0
15-19			100	0							50
			1								1
20-24											2
											0
25-29											2
											100
>=30											1
											1
TOTAL	100	25		50	0		50	0	50	0	42
	1	1		1	1		1	1	1	1	5
	1	1		2	2		2	2	2	2	12

PEX-SMOKER
NON-SMOKER
CIGARETTE
PEICES STAGE AND COUGH
NUMBER DIAGNOSED COUGH
NUMBER IN CATEGORY

NUMBER OF WORKERS WITH SHORTNESS OF BREATH FOR 20 WORKERS

CYPRUS GRAND ISLAND

TALC EXPOSURE (YEARS)	AGE										≥60			TOTAL		
	<10	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	N	S	E	N	S	E
<5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5-9	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10-14	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
15-19	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20-24	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
25-29	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
≥30	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
TOTAL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

S=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: NUMBER WITH NO SHORTNESS OF BREATH
NUMBER WITH MILD SHORTNESS OF BREATH
NUMBER WITH MODERATE SHORTNESS OF BREATH

DEMOGRAPHIC DATA FOR 20 WORKERS

CYPRUS GRAND ISLAND

PRINCIPAL WORK AREA	MEAN AGE	SEX EXPOSED	PERCENT MALE	PERCENT FEMALE	PERCENT BLACK	PERCENT WHITE	RACE OTHER	PERCENT SMOKERS	PERCENT EX-SMOKERS	PERCENT NON-SMOKERS
EXPOSED	37.5	19.7	100.0	0.0	0.0	95.0	5.0	60.0	35.0	5.0
UNEXPOSED	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	37.5	19.7	100.0	0.0	0.0	95.0	5.0	60.0	35.0	5.0

20 TALE WORKERS

0 OTHER WORK

NON-SMOKERS ARE THOSE WHO HAVE SMOKED LESS THAN 6 MONTHS
EX-SMOKERS ARE THOSE WHO HAVE NOT BEEN SMOKING FOR THE PAST SIX MONTHS

PERCENT & NUMBER OF ADULTS WITH PNEUMOCOCCUS FOR 31 WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

CYPHUS THREE FORKS

AGE EXPOSURE (YEARS)	<20			20-29			30-39			AGE 40-49			50-59			>=60			TOTAL
	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	S	N	P	
<=4																			0 0
5-9																			0 0 0
10-14																			1 1 2
15-19																			0 0 0
20-24																			0 50 0
25-29																			2 2 2
>=30																			0 0 0
TOTAL																			9 8 15

12-SMOKER
NON-SMOKER

CELLS KEY: PERCENT DIAGNOSED PNEUMOCOCCUS
NUMBER DIAGNOSED PNEUMOCOCCUS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH PLEURAL THICK FOR 33 WORKERS BY AGE SMOKING STATUS, 6 EXPOSURE

CYPRUS THREE FORKS

TALC EXPOSURE (YR/PS)	AGE																		TOTAL
	<20			20-29			30-39			40-49			50-59			>=60			
	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	
<=4																			
5-9																			
10-14																			
15-19																			
20-24																			
25-29																			
>=30																			
TOTAL																			

P=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CPLS KEY: PERCENT DIAGNOSED PLEURAL THICK
NUMBER DIAGNOSED PLEURAL THICK
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH MASSIVE FIBROSIS FOR 33 WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

CYPRESS TREE PORKS

TALC EXPOSURE (YEARS)	AGE												TOTAL		
	<20			20-29			30-39			40-49				>=60	
	F	N	S	F	N	S	F	N	S	F	N	S	F	N	S
<=4															
			0											0	0
			1	1										1	1
5-9			0											0	0
		1	1	2									1	1	2
10-14			0											0	0
			3	2										3	4
15-19			0	0	0	0								0	0
			1	1	1	2							1	1	3
20-24														0	0
							1	2	2	1				2	2
25-29								0		0	0			0	0
							1		2	1				2	2
>=30								0		0				0	0
								1		1	1	1		3	2
TOTAL			0	0	0	0	0	0	0	0	0	0	0	0	0
		1	5	6	1	1	5	4	2	4	2	1	1	9	16

F=FX-SMOKER
N=NON-SMOKER

S=SMOKER

CELLS KEY: PERCENT DIAGNOSED MASSIVE FIBROSIS

NUMBER DIAGNOSED MASSIVE FIBROSIS

NUMBER IN CATEGORY

MEAN PEP50 FOR 33 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS THREE FORKS

TOTAL EXPOSURE (YEARS)	<20		20-29		30-39		AGE		40-49		50-59		>=60		TOTAL	
	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S	N
<=4							612	1							612	1
5-9			529	2	569	1	574	2							528	2
10-14					520	3	365	2								
15-19							363	1	498	1	525	2			498	1
20-24								199	1	420	2	403	2		420	2
25-29										223	1	365	2		290	2
>=30										362	1	492	1	81	323	3
TOTAL			528	2	546	5	448	5	498	1	525	4	498	1	394	10

PEP50 IS IN CENTILITERS PER SECOND

S=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PEP50
NUMBER IN CATEGORY

CYPRIUS THREE FORKS

TALLC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	R	N	R	S	R	N	R	N	R	N	R	N	R	S
<4													519	---
5-9			458	491	475								458	491 475
10-14					417	437	361						417	399
15-19					442	399	434	302					399	434 349
20-24							327	401	376	352			401	376 339
25-29								326		378	391		358	378
>=30								379		424	318		336	331
TOTAL			458	452	453	399	434	330	377	376	383	354	384	431 379

PPV1 IS IN CENTILITERS PER SECOND

2=EX-SMOKER

3=NON-SMOKER

5=SMOKER

CELLS KEY: MEAN PPV1
NUMBER IN CATEGORY

MEAN FVC FOR 13 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS THREE FORKS

TALC EXPOSURE (YEARS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<=4													611	1
5-9			569	569									569	559
10-14			495	559		480							495	519
15-19					581	536	433						508	482
20-24							545	554	478	486			554	515
25-29								517	546	491			504	546
>=30								515	529	410	458	458	461	493
TOTAL			569	533	563	508	530	474	535	478	527	450	514	519
			2	5	5	1	1	5	4	2	4	2	10	15

FVC IS IN CENTILITERS

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN FVC
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BREATHING OBSTRUCTION FOR 33 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS THREE FORKS

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	F	N	F	N	F	N	F	N	F	N	F	N	F	N
<4													0	
5-9			0	0									0	0
			2	1	2								2	1
10-14				0									0	0
				3	2								3	4
15-19													0	0
													1	1
20-24													50	0
													2	2
25-29													50	50
													1	1
>=30													33	50
													1	1
TOTAL													10	8

F=EX-SMOKER
N=NON-SMOKER
S=SMOKER

PERCENT DIAGNOSED BREATHING OBSTRUCTION
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BRONCHITIS FOR 34 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS THREE FORKS

TALC EXPOSURE (YEARS)	AGE												TOTAL					
	<20			20-29			30-39			40-49				50-59			>=60	
	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S
<=4							0	100									0	100
							1	1									1	1
							1	1									1	1
5-9							0	50								0	0	50
							2	1	2							2	1	2
							2	1	2							2	1	2
10-14							3	0									3	0
							1										1	
							3	2									3	4
15-19								0	0	0							0	0
							1	1	1	2						1	1	3
20-24										0	0	0					0	0
										1	2	2	1			2	2	2
25-29											0		0				0	0
											1	2	1			2	2	2
>=30												100	0			0		50
												1					1	
												1	1			3		2
TOTAL							0	22	33	0	0	0	0	25	0		0	13
							1	2	2					1			1	3
							2	5	6	1	1	5	4	2	4	1	1	8
																10	8	16

E=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED BRONCHITIS
NUMBER DIAGNOSED BRONCHITIS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH COUGH FOR 34 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS THREE PORKS

TALC EXPOSURE (YEARS)	<20			20-29			30-39			40-49			50-59			>=60			TOTAL
	N	C	F	N	C	F	N	C	F	N	C	F	N	C	F	N	C	F	
<=4	1	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	100
5-9	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-14	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NUMBER OF WORKERS WITH SHORTNESS OF BREATH FOR 34 WORKERS

CYPRUS THREE FORKS

AGE

TOTAL

>=60

50-59

40-49

30-39

20-29

<20

TOTAL
EXPOSURE
(YEARS)

P N S E N S E N S E N S

P N S E N S E N S E N S

P N S E N S E N S E N S

P N S E N S E N S E N S

P N S E N S E N S E N S

P N S E N S E N S E N S

P N S E N S E N S E N S

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EX-SMOKES
N-NON-SMOKER
S-SMOKER

CELLS KEY:
NUMBER WITH NO SHORTNESS OF BREATH
NUMBER WITH MILD SHORTNESS OF BREATH
NUMBER WITH MODERATE SHORTNESS OF BREATH

DEMOGRAPHIC DATA FOR 34 WORKERS

CYPRIOT THREE FORKS

PRINCIPAL WORK AREA	MEAN AGE	YEARS EXPOSED	SEX		RACE			SMOKING STATUS *		
			PERCENT MALE	PERCENT FEMALE	PERCENT BLACK	PERCENT OTHER	PERCENT WHITE	PERCENT SMOKERS	PERCENT EX-SMOKERS	PERCENT NON-SMOKERS
EXPOSED	36.1	11.1	100.0	0.0	0.0	0.0	100.0	47.1	29.4	23.5
UNEXPOSED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	36.1	11.1	100.0	0.0	0.0	0.0	100.0	47.1	29.4	23.5

34 TALE WORKERS

0 OTHER WORK

NON-SMOKERS ARE THOSE WHO HAVE SMOKED LESS THAN 6 MONTHS
EX-SMOKERS ARE THOSE WHO HAVE NOT BEEN SMOKING FOR THE PAST SIX MONTHS

PERCENT & NUMBER OF WORKERS WITH PNEUMOCOCCUS FOR 15 WORKERS BY AGE SMOKING STATUS, & EXPOSURE

CYPRUS BEAVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>60		TOTAL	
	P	N	P	N	P	N	P	N	P	N	P	N	P	N
<4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	0	0	0	0	0	0	0	0	0	0	0	1	0
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	1	0	0	0	0	0	0	0	0	0	0	0	1	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	1	0

P=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED PNEUMOCOCCUS
NUMBER DIAGNOSED PNEUMOCOCCUS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH PLEURAL THICK FOR 15 WORKERS BY AGED SMOKING STATUS, & EXPOSURE

CYPROS BEAVERHEAD

TALC EXPOSURE (YEARS)	<20			20-29			30-39			40-49			50-59			>=60			TOTAL
	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	
<=4							0												0
5-9							0	0	0	0									1
10-14							1	1	1	1									0
15-19																			0
20-24																			0
25-29																			0
>=30																			0
TOTAL							0	0	0	0	0	0	0	0	0	0	0	0	0

E=PR-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED PLEURAL THICK
NUMBER DIAGNOSED PLEURAL THICK
NUMBER IN CATEGORY

15 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE:

CYPRUS BFM VEHICLE

[illegible]

ВЕРНО - НЕВЕРНО
ВЕРНО - НЕВЕРНО

S=SMOKER	PERCENT DIAGNOSED MASSIVE PNEUMONIA
CELLS KPY:	NUMBER DIAGNOSED MASSIVE PNEUMONIA
	NUMBER IN CATEGORY
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

MEAN PFT50 FOR 15 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS BEAVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL	
	E	S	E	S	E	S	E	S	E	S	E	S	E	S
<=4														
5-9														
10-14														
15-19														
20-24														
25-29														
>=30														
TOTAL														

PFT50 IS IN CENTILITERS PER SECOND

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PFT50

NUMBER IN CATEGORY

4014 PEV1 FOR 15 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRIUS LEAVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL
<=4	E	N	E	N	E	N	E	N	E	N	E	N	448
5-9													
10-14													
15-19													
20-24													
25-29													
>=30													
TOTAL													

PEV1 IS IN CENTILITERS PER SECOND

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PEV1
NUMBER IN CATEGORY

MEAN PVC POS 15 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS BEAVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<4														
5-9														
10-14														
15-19														
20-24														
25-29														
>=30														
TOTAL														

PVC IS IN CENTILITERS

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PVC

NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BREATHING OBSTRUCTION FOR 15 WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

CYRUS BEAVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
<4														
5-9														
10-14														
15-19														
20-24														
25-29														
>=30														
TOTAL														

P=FX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED BREATHING OBSTRUCTION
NUMBER DIAGNOSED BREATHING OBSTRUCTION
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BRONCHITIS FOR 15 WORKERS BY AGE SMOKING STATUS, & EXPOSURE

CYPRUS DEVERHEAD

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	P	N	P	N	P	N	P	N	P	N	P	N	P	N
<=4				100									100	
				1									1	
				1									1	
5-9				0	0	0	0	0					0	0
				1	1	1	1						1	1
													0	0
10-14				0	0	0	0	0					0	0
				1	2		1						2	1
													1	1
15-19						0	0	0					0	0
													1	1
20-24						0	0	0						0
													1	1
25-29														0
													1	1
>=30									50				50	
									1				1	
									2				2	
TOTAL				50	0	0	0	0	50				0	0
				1					1				2	
				2	3	2	2	1	2				4	3

E=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED BRONCHITIS
NUMBER DIAGNOSED BRONCHITIS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH COUGH FOR 15 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRIUS BEAVERHEAD

TALC EXPOSURE (YEARS)	AGE						50-59						TOTAL					
	<20	20-29	30-39	40-49	50-59	>60	<20	20-29	30-39	40-49	50-59	>60	<20	20-29	30-39	40-49	50-59	>60
	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S	B N S
<4		100						100						100				100
5-9		100	0	0	0			1	1	1				1			0	50
10-14		0	0	0	0			0						0			0	0
15-19		1	2					1		1				2	1		1	1
20-24					0				0								0	0
25-29											100						100	100
>30														50			50	50
TOTAL		100	0	0	0			100	0	0	50			100	0	0	50	50

B=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS MET: PERCENT DIAGNOSED COUGH
NUMBER DIAGNOSED COUGH
NUMBER IN CATEGORY

NUMBER OF WORKERS WITH SHORTNESS OF BREATH FOR 14 WORKERS

CYRUS BEAVERHEAD

TALC EXPOSURE (YEARS)	AGE														TOTAL
	<20		20-29		30-39		40-49		50-59		>=60				
	E	N	E	N	E	N	E	N	E	N	E	N	E	N	S
<=4	---	---	---	---	001	---	---	---	---	---	---	---	---	---	001
	---	---	---	---	0	---	---	---	---	---	---	---	---	---	0
	---	---	---	---	0	---	---	---	---	---	---	---	---	---	0
5-9	---	---	---	---	001	001	001	---	---	---	---	---	001	001	002
	---	---	---	---	0	0	0	---	---	---	---	---	0	0	0
	---	---	---	---	0	0	0	---	---	---	---	---	0	0	0
	---	---	---	---	0	0	0	---	---	---	---	---	0	0	0
10-14	---	---	---	---	001	---	---	---	---	---	---	---	001	001	0
	---	---	---	---	0	---	---	---	---	---	---	---	0	0	0
	---	---	---	---	0	---	---	---	---	---	---	---	0	0	001
	---	---	---	---	0	---	---	---	---	---	---	---	0	0	0
15-19	---	---	---	---	---	---	---	---	---	---	---	---	001	0	---
	---	---	---	---	---	---	---	---	---	---	---	---	0	001	---
	---	---	---	---	---	---	---	---	---	---	---	---	0	0	0
	---	---	---	---	---	---	---	---	---	---	---	---	0	0	0
20-24	---	---	---	---	---	---	001	---	---	---	---	---	---	---	001
	---	---	---	---	---	---	0	---	---	---	---	---	---	---	0
	---	---	---	---	---	---	0	---	---	---	---	---	---	---	0
	---	---	---	---	---	---	0	---	---	---	---	---	---	---	0
25-29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	001
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0
>=30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	001
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	001
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	0
TOTAL	---	---	---	---	001	002	001	---	---	---	---	---	003	002	036
	---	---	---	---	0	0	0	---	---	---	---	---	0	001	001
	---	---	---	---	0	0	0	---	---	---	---	---	0	0	001
	---	---	---	---	0	0	0	---	---	---	---	---	0	0	0

2=EX-SHOKER
N=NON-SHOKER
S=SHOKER

CELLS KEY: NUMBER WITH NO SHORTNESS OF BREATH
NUMBER WITH MILD SHORTNESS OF BREATH
NUMBER WITH MODERATE SHORTNESS OF BREATH

DEMOGRAPHIC DATA FOR 15 WORKERS

CYPRIUS PEAVERTHEAD

PRINCIPAL WORK AREA	MEAN AGE	MEAN YEARS EXPOSED	SEX		RACE		SMOKING STATUS	
			PERCENT MALE	PERCENT FEMALE	PERCENT BLACK	PERCENT OTHER	PERCENT SMOKERS	PERCENT NONSMOKERS
EXPOSED	37.0	15.1	100.0	0.0	0.0	0.0	53.3	26.7
UNEXPOSED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	37.0	15.1	100.0	0.0	0.0	0.0	53.3	26.7

15 TALE WORKERS

0 OTHER WORK

NON-SMOKERS ARE THOSE WHO HAVE SMOKED LESS THAN 6 MONTHS
EX-SMOKERS ARE THOSE WHO HAVE NOT BEEN SMOKING FOR THE PAST SIX MONTHS

PERCENT & NUMBER OF WORKERS WITH PNEUMOCONIOSIS FOR 48 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS YELLOWSTONE

TALC EXPOSURE YEARS	<20				20-29				30-39				40-49				50-59				>=60				TOTAL			
	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E	P	N	S	E
<=4	0	0			0	0	0		0	0	0													0	0	0		
	1	2			2	5	1	1																2	5	5		
5-9					0	0							0	0			0							0	0	0		
					1	2							1	1			1							2	2	2		
10-14					0	0											0							0	0	0		
					1	1							2				1							3	3			
15-19									0	0	0						0	0						0	0	0		
									1	1	3						1	1						1	2	4		
20-24									0		0						0							0	0	0		
									1		1		2				1							1	1	3		
25-29													0	0	0									0	0	0		
													2	1	1									2	1	1		
>=30																	0	0					0	0	0			
																	1	2	1				1	2	5	1		
TOTAL	0	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	2			4	8	3	3	3	3	6	3	4	2	2	5	1	1	1	1	1	1	1	10	19	19		

P=EX-SMOKER
S=NON-SMOKER

CELLS KEY: PERCENT DIAGNOSED PNEUMOCONIOSIS
NUMBER DIAGNOSED PNEUMOCONIOSIS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH PLEURAL THICK FOR 40 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS YELLOWSTONE

AGE

TALC EXPOSURE (YEARS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	2	2	5	1	1	0	0	0	0	0	0	2	5
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	1	1	1	1	1	1	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: PERCENT DIAGNOSED PLEURAL THICK

NUMBER DIAGNOSED PLEURAL THICK

NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH MASSIVE FIBROSIS FOR 48 WORKERS BY AGE & SMOKING STATUS, 6 EXPOSURE

CYPRUS YELLOWSTONE

TALC SYNTHESIZED (F&MS)	<20		20-29		30-39		40-49		50-59		>=60		TOTAL
	E	N	E	N	E	N	E	N	E	N	E	N	
<=4	0	0	0	0	0	0	0	0	0	0	0	0	0
5-9	1	2	0	0	1	1	0	0	0	0	2	5	5
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0
15-19	0	0	0	0	0	0	0	0	0	0	0	0	0
20-24	0	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0	0
>=30	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	2	0	0	1	1	0	0	0	0	2	5	5

E=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CSL15 KEY: PERCENT DIAGNOSED MASSIVE FIBROSIS
NUMBER DIAGNOSED MASSIVE FIBROSIS
NUMBER IN CATEGORY

MEAN PEP50 FOR 48 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRESS YELLOWSTONE

TALC EXPOSURE (YEARS)	AGE																		TOTAL
	<20			21-29			30-39			40-49			50-59			>=60			
	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	P	N	S	
<=4	579	497	1	509	536	5	362	469	1							470	496	536	
		2		2			1									2	5	5	
5-9				596	356	2				384	216	1	423			403	406	356	
				1						1			1			2	2	2	
10-14				515	534	1				450			530			164	403	479	
				1					2				1			1	3	3	
15-19							590	347	286				168	296		590	257	288	
							1	1	3				1	1		1	2	4	
20-24							609		102			314	410			609	410	243	
							1		1		2		1			1	1	3	
25-29										310	287	116				310	287	316	
										2	1	1				2	1	1	
>=30											237		379	338		213	204	213	
											2		1	2		1	2	1	
TOTAL	579	497	1	532	491	8	520	466	310	335	274	248	401	356	296	30	164	213	
		2		4			3	3	6	3	4	3	2	5	1	1	10	19	

PEP50 IS IN CENTILITERS PER SECOND

P=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PEP50
NUMBER IN CATEGORY

MEAN PPV1 FOR 44 WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPRUS YELLOWSTONE

TALC EXPOSURE (YEARS)	<25		20-29		30-39		AGE 40-49		50-59		>=60		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<=4	453	381	444	407	274	448							363	422
	1	2	2	5	1	1							2	5
5-9			309	355			272	280	282				277	337
			1	2			1	1	1				2	2
10-14			471	428			341		298		199		322	370
			1	1			2		1		1		3	3
15-19					453	264	328		250	259			453	257
					1	1	3		1	1			1	2
20-24					514		170	270	294				534	294
					1		1	2	1				1	3
25-29							253	358	222				253	358
							2	1					2	1
>=30						465		255	381	336			343	236
						1		2	1	2			1	5
TOTAL	453	381	441	396	420	392	306	259	331	303	259	91	343	324
	1	2	4	8	3	3	6	3	2	5	1	1	1	10
								4						19

PPV1 IS IN CENTILITERS PER SECOND

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: MEAN PPV1
NUMBER IN CATEGORY

MEAN PVC TOP US WORKERS BY AGE, AND SMOKING STATUS, AND EXPOSURE

CYPROS YELLOWSTONE

TALC EXPOSURE (YEARS)	<20		20-29		30-39		AGE		40-49		50-59		>=60		TOTAL	
	E	N	E	N	E	N	E	N	E	N	E	N	E	N	E	N
<=4	542 1	431 2	548 2	474 5	335 1	580 1									438 2	507 5
5-9			430 1	475 2			346 1	404 1	348 1						347 2	417 2
10-14			600 1	552 1			406 2			362 1			283 1		415 3	454 3
15-19					570 1	309 1	451 3			375 1	345 1				570 1	342 2
20-24					673 1		285 1		356 2	384 1					673 1	384 1
25-29							414 2	551 1	373 1						414 2	551 1
>=30									318 2	529 1	481 2	195 1	584 1		362 2	439 5
TOTAL	542 1	431 2	531 4	484 8	526 3	496 3	408 6	391 3	397 4	438 2	416 5	345 1	195 1	283 1	436 10	443 19

PVC IS IN CENTILITERS
P=EX-SMOKER
N=NON-SMOKER
S=SMOKER
CELLS KEY: MEAN PVC
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BREATHING OBSTRUCTION FOR 48 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS YELLOWSTONE

AGE

AGE		20-29			30-39			40-49			50-59			>=60			TOTAL		
EXPOSURE (YEARS)	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	
<4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	5	1	1	1	1	1	1	2	5	5	2	5	5	2	5	5	
5-9	0	0	50	0	0	0	0	100	0	0	0	0	0	0	0	0	50	50	
	1	2	1	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	
10-14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	2	2	1	1	1	1	1	3	3	1	3	3	3	3	3	
15-19	0	0	0	0	0	67	0	0	0	100	0	0	0	0	0	0	50	50	
	1	1	2	3	1	1	1	1	1	1	1	2	1	2	2	1	2	2	
20-24	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	33	33	
	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	3	3	
25-29	0	0	0	0	0	0	0	100	100	0	0	0	0	0	0	50	100	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
>=30	0	0	0	0	0	0	0	0	0	0	50	0	100	50	20	100	20	100	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
TOTAL	0	0	13	0	0	50	33	50	33	0	40	0	100	20	21	20	21	32	
	1	2	1	1	1	3	1	2	1	2	2	5	1	2	2	2	2	6	
	1	2	0	3	3	6	3	4	3	2	5	1	1	1	1	1	1	1	

B=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: PERCENT DIAGNOSED BREATHING OBSTRUCTION

NUMBER DIAGNOSED BREATHING OBSTRUCTION

NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH BRONCHITIS FOR 4A WORKERS BY AGE & SMOKING STATUS, & EXPOSURE

CYPRUS YELLOWSTONE

TALC EXPOSURE (YEARS)	AGE										TOTAL	
	<20		20-29		30-39		40-49		50-59		>=60	
	E	N	E	N	E	N	E	N	E	N	E	N
<=4	0	0	51	20	100	0					50	20
			1	1	1						1	1
	1	2	2	5	1	1					2	5
5-9												
			50				0	0	0		0	0
			1									1
			1	2			1	1	1		2	2
10-14												
			100			0			0		0	33
			1									1
			1	1		2			1		1	3
15-19												
					0	0	33		0	0	0	0
					1	1	1		1	1	1	2
					1	1	3					4
20-24												
					0	0		0	0		0	0
					1	1	1	2	1		1	1
25-29												
							0	0	100		0	0
												1
							2	1	1		2	1
>=30												
						0		0	0	100	0	0
						1			1	1	1	1
							2		1	2	5	1
TOTAL	0	0	25	38	33	0	17	0	0	33	0	20
			1	3	1		1			1	2	5
	1	2	4	8	3	3	6	3	4	3	1	10

P=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED BRONCHITIS
NUMBER DIAGNOSED BRONCHITIS
NUMBER IN CATEGORY

PERCENT & NUMBER OF WORKERS WITH COUGH FOR 48 WORKERS BY AGE, SMOKING STATUS, & EXPOSURE

CYPRUS YELLOWSTONE

TALC EXPOSURE (YR/ABS)	AGE												TOTAL			
	<20			20-29			30-39			40-49				>=60		
	E	N	S	E	N	S	E	N	S	E	N	S	E	N	S	
<=4	0	0	---	0	0	0	---	---	---	---	---	---	---	0	0	0
	1	2	---	2	5	1	1	---	---	---	---	---	---	2	5	5
5-9	---	---	---	0	0	---	---	0	100	---	---	---	---	0	50	0
	---	---	---	1	2	1	1	1	1	---	---	---	---	2	2	2
10-14	---	---	---	0	0	---	---	0	---	---	100	---	---	---	33	0
	---	---	---	1	1	1	2	1	---	---	1	---	---	---	1	3
15-19	---	---	---	---	---	0	0	33	---	---	---	0	---	0	0	25
	---	---	---	---	---	1	1	1	---	---	---	1	---	1	2	4
20-24	---	---	---	---	---	0	---	100	---	0	---	---	---	0	0	33
	---	---	---	---	---	1	1	1	2	---	---	---	---	1	1	3
25-29	---	---	---	---	---	---	---	---	0	100	---	---	---	0	0	100
	---	---	---	---	---	---	---	2	1	1	---	---	---	2	1	1
>=30	---	---	---	---	---	---	0	---	---	---	0	---	---	0	0	0
	---	---	---	---	---	1	2	---	---	---	1	2	---	1	2	5
TOTAL	0	0	---	0	0	0	0	33	0	25	33	0	0	0	11	16
	---	---	---	---	---	1	1	1	1	---	---	---	---	---	2	3
	---	---	---	---	---	1	1	1	1	---	---	---	---	1	10	19

E=EX-SMOKER
N=NON-SMOKER
S=SMOKER

CELLS KEY: PERCENT DIAGNOSED COUGH
NUMBER DIAGNOSED COUGH
NUMBER IN CATEGORY

NUMBER OF WORKERS WITH SHORTNESS OF BREATH FOR 48 WORKERS

CYPRUS YELLOWSTONE

TALC EXPOSURE (YEARS)	AGE												TOTAL
	<20	20-29	30-39	40-49	50-59	>60							
	E	N	S	E	N	S	E	N	S	E	N	S	
<=4	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
5-9	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
10-14	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
15-19	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
20-24	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
25-29	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
>=30	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0
TOTAL	001 0 0 0	002 0 0 0	002 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	001 0 0 0	002 0 0 0

E=EX-SMOKER

N=NON-SMOKER

S=SMOKER

CELLS KEY: NUMBER WITH NO SHORTNESS OF BREATH
NUMBER WITH MILD SHORTNESS OF BREATH

DEMOGRAPHIC DATA FOR 48 WORKERS

CYPRUS YELLOWSTONE

PRINCIPAL WORK AREA	MEAN AGE	MEAN YEARS EMPLOYED	SEX		RACE		SMOKING STATUS *	
			PERCENT MALE	PERCENT FEMALE	PERCENT BLACK	PERCENT OTHER	PERCENT SMOKERS	PERCENT NONSMOKERS
EXPOSED	37.7	15.4	45.8	54.2	0.0	2.1	39.6	39.6
UNEXPOSED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTALS	37.7	15.4	45.8	54.2	0.0	2.1	39.6	39.6

48 TALE WORKERS

0 OTHER WORK

NON-SMOKERS ARE THOSE WHO HAVE SMOKED LESS THAN 6 MONTHS
EX SMOKERS ARE THOSE WHO HAVE NOT BEEN SMOKING FOR THE PAST SIX MONTHS