

FINANCIAL STATEMENTS SECTION

100

PIGMENTS
Page 1 of page 2
MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

DEPARTMENT

MONTH OF

1959

$$P_0 = \sum \frac{P_n Q_n}{P_{Dec} Q_n} \times P_{Dec} \quad 47-49=100$$

P _n 47-49=100				= $\frac{\sum P_n Q_n}{\sum P_{Dec} Q_n}$				X P _{Dec} 47-49=100				TOTAL DIV. AND DEPT. CALCULATION																
DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)				SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT DECEMBER PRICES (AS QUOTED)				LINK RELATIVE				INDEX: PRECEDING DECEMBER				INDEX: 47-49=100				
								CURRENT MONTH		PRECEDING MONTH		PRICE RELATIVE		CURRENT QUANTITY AT DECEMBER PRICES (AS QUOTED)		PRECEDING QUANTITY AT DECEMBER PRICES (AS QUOTED)		LINK RELATIVE		PRECEDING LINK RELATIVE		PRECEDING INDEX		CURRENT INDEX				
L	N	E		UNIT	F.O.B.	PACKAGE OR ORDER SIZE	P _n	P _{Dec}	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n
1	1	1	PIGMENTS																									
2	2	2	"Ti-Pure"																									
3	3	3	All grades	Lb.	S.P.	C/L Min. 20 Ton		25.50¢																				
4	4	4	All grades	Lb.	S.P.	C/L Min. 20 Ton		27.50¢																				
5	5	5	Sample Total																									
6	6	6	Product Total																									
7	7	7	"Ti-Cal"																									
8	8	8	All grades except R-60	Lb.	S.P.	C/L Min. 20 Ton		9.37¢																				
9	9	9	Colors																									
10	10	10	Product Total			(See subsidiary worksheet)																						
11	11	11	Total Pigments																									
12	12	12	Color																									
13	13	13	Stearolite	Ton	S.P.	Bulk		\$ 4.88																				
14	14	14	All	Ton	S.P.	Bulk		24.00																				
15	15	15	Silicon																									
16	16	16	Grade 1	Lb.	S.P.	All quantities		320.00																				
17	17	17	Densified	Lb.	S.P.	All quantities		330.00																				
18	18	18	Standard Rod	Lb.	S.P.	All quantities		355.00																				
19	19	19	Total																									
20	20	20	Grade 2	Lb.	S.P.	All quantities		220.00																				
21	21	21	Standard Rod	Lb.	S.P.	All quantities		245.00																				
22	22	22	Total																									
23	23	23	Grade 3	Lb.	S.P.	All quantities		130.00																				
24	24	24	Densified	Lb.	S.P.	All quantities		155.00																				
25	25	25	Standard Rod	Lb.	S.P.	All quantities		90.00																				
26	26	26	Total																									
27	27	27	Solar Cell																									
28	28	28	Sample Total																									
29	29	29	Product Total																									
30	30	30	Titanium Metal																									
31	31	31	A-1	Lb.	S.P.	Min. 100 lbs.		1.82																				
32	32	32	A-2	Lb.	S.P.	Min. 100 lbs.		1.70																				
33	33	33	Sample Total																									
34	34	34	Product Total																									
35	35	35	Total																									
36	36	36	Total Pigments Department (line 11 + 34)																									

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times \frac{P_{Dec}}{P_{Dec} Q_n} \quad 47-49=100$$

P _n 47-49=100 X P _{Dec} 47-49=100																	
= $\frac{\sum P_n Q_n}{\sum P_{Dec} Q_n}$																	
DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)				SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM		CURRENT QUANTITY AT CURRENT PRICES (NUMERATOR)		TOTAL DIV. AND DEPT. CALCULATION					
				SPECIFIC SAMPLE ITEM		UNIT	F.O.B.	PACKAGE OR ORDER SIZE	P _n	P _{Dec}	PRICE RELATIVE	P _n Q _n	P _{Dec} Q _n	LINK RELATIVE	INDEX: 47-49=100		
															PRECEDING DECEMBER	PRECEDING DECEMBER	PRECEDING DECEMBER

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES USING THE FORMULA:

$$\frac{P_n}{\sum p_n q_n} = \frac{X}{\sum p_{Dec} q_n} \times \frac{P_{Dec}}{47-49=100}$$

[illegible]

(1) Price relative computed on page 2.

PIGMENTS DEPARTMENT MONTH OF June 1950
 Page 1 of page 2
**MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
 USING THE FORMULA:**

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec}$$

47-49=100 47-49=100

P_n 47-49=100		$= \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n}$		$\times P_{Dec}$ 47-49=100		QUOTED PRICE OF SAMPLE ITEM			CURRENT QUANTITY AT CURRENT PRICES (NUMERATOR)	CURRENT QUANTITY AT DECEMBER PRICES (DENOMINATOR)	
L I N E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				L I N E	CURRENT MONTH	PRECEDING DECEMBER	PRICE RELATIVE	Pn Qn 129 SHEET OR SALES TAB. (4)	PDec Qn COLS. (4) (5)
		SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE		OPERATING DEPARTMENT	OPERATING DEPARTMENT	COLS. (1) (2)		
							(1)	(2)	(3)		
1	PIGMENTS					1					
2	"Ti-Pure"					2					
3	Anatase	All grades	Lb.	S.P.	C/L Min. 20 Ton	3		25.50¢			
4	Rutile	All grades	Lb.	S.P.	C/L Min. 20 Ton	4		27.50¢			
5	Sample Total					5					
6	Product Total					6				5150.8 *	
7	"Ti-Cal"					7					
8	Product Total	All grades except R-60	Lb.	S.P.	C/L Min. 20 Ton	8		9.375¢		127.9 *	
9	Colors					9					
10	Product Total	(See subsidiary worksheet)				10	(1)	(1)	100.67	1710.2 *	1692.8
11	Total Pigments					11			(Cum.)	622.3 (*)	155.5
12	METALLICS					12					
13	Staurolite	All	Ton	S.P.	Bulk	13		\$ 4.88	102.05	37.0 *	
14	Zircon	All	Ton	S.P.	Bulk	14		36.00	100.00	152.0 *	
15	Silicon					15					
16	Grade 1	Needle	Lb.	S.P.	All quantities	16		320.00			
17		Densified	Lb.	S.P.	All quantities	17		330.00			
18		Standard Rod	Lb.	S.P.	All quantities	18		355.00			
19	Total					19					X
20	Grade 2	Densified	Lb.	S.P.	All quantities	20		220.00			
21		Standard Rod	Lb.	S.P.	All quantities	21		245.00			
22	Total					22					X
23	Grade 3	Densified	Lb.	S.P.	All quantities	23		130.00			
24		Standard Rod	Lb.	S.P.	All quantities	24		155.00			
25	Total					25					X
26	Solar Cell		Lb.	S.P.	All quantities	26		90.00			X
27	Sample Total					27					(X)
28	Product Total					28				421.0 *	
29	Titanium Metal					29					
30	A-1	Sponge	Lb.	S.P.	Min. 100 lbs.	30		1.82	27.01	254.3	232.4
31	A-2	Sponge (Excl. fines & pellets)	Lb.	S.P.	Min. 100 lbs.	31		1.70	22.04	24.1	31.8
32	Sample Total					32				11	260.2
33	Product Total					33				255.3 *	272.1
34	Total Metallics					34			(Cum.)	271.3 (*)	114.3
35						35					
36	Total Pigments Department (line 11 + 34)					36			(SD)	7242.0	7271.8
37						37					
38						38					
- (1) Price relative computed on page 2											

1. All Price relative computed on page 2.

DUPO50062523

PDec
47-49=100

DUP050062524

PIGMENTS
 Page 1 of page 2
 MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
 USING THE FORMULA:

DEPARTMENT

MONTH OF *September* 1959

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49=100$$

L	1	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (179 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT DECEMBER PRICES (CONSTRUCTION)				TOTAL DIV. AND DEPT. CALCULATION			
					SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	P _n	PREVIOUS DEPARTMENT	PRICE RELATIVE	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	CUM. (1)	CUM. (2)	P _n Q _n	P _{Dec} Q _n	CUM. (3)	CUM. (4)
1				PIGMENTS																
2				"Ti-Pure"																
3				Anatase	All grades	Lb.	S.P.	C/L Min. 20 Ton			25.504									
4				Rutile	All grades	Lb.	S.P.	C/L Min. 20 Ton			27.504									
5				Sample Total																
6				Product Total																
7				"Ti-Cal"																
8				Product Total	All grades except R-60	Lb.	S.P.	C/L Min. 20 Ton			9.3754									
9				Colors																
10				Product Total	(See subsidiary worksheet)															
11				Total Pigments																
12				METALLICS																
13				Stearolite	All	Ton	S.P.	Bulk			\$ 4.88									
14				Zircon	All	Ton	S.P.	Bulk			34.00									
15				Silicon																
16				Grade 1	Needle	Lb.	S.P.	All quantities			380.00									
17				Densified		Lb.	S.P.	All quantities			330.00									
18				Standard Rod		Lb.	S.P.	All quantities			355.00									
19				Total																
20				Grade 2	Densified	Lb.	S.P.	All quantities			220.00									
21				Standard Rod		Lb.	S.P.	All quantities			245.00									
22				Total																
23				Grade 3	Densified	Lb.	S.P.	All quantities			130.00									
24				Standard Rod		Lb.	S.P.	All quantities			155.00									
25				Total																
26				Solar Cell		Lb.	S.P.	All quantities			90.00									
27				Sample Total																
28				Product Total																
29				Titanium Metal																
30				A-1	Sponge	Lb.	S.P.	Min. 100 lbs.			1.82									
31				A-2	Sponge (excl. fines & pellets)	Lb.	S.P.	Min. 100 lbs.			1.70									
32				Sample Total																
33				Product Total																
34				Total Metallics																
35																				
36				Total Pigments Department (line 11 + 34)																
37																				

PIGMENTS --- COLORS
 Page 2 of 2 Pages
 MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
 USING THE FORMULA:

DEPARTMENT

MONTH OF

1999

$$P_{47-49-100} = \sum P_n Q_n = \sum P_{Dec} Q_n \quad X \quad P_{Dec} \quad 47-49-100$$

L	N	E	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT DECEMBER PRICES (CONTINUED)				TOTAL DIV. AND DEPT. CALCULATION			
			SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	Pkg. or Order Size	Operating Department	Price Relative	Price Relative	Operating Department	Current Quantity	Current Quantity	Current Quantity	Current Quantity	Line Relative	Index: 47-49-100	Index: 47-49-100	Index: 47-49-100
1			DIVISION AND PRODUCT OR PRODUCT GROUP (119 SHEET OR SALES TABULATION CLASSIFICATION)															
2			INORGANIC															
3			Molybdate orange (1)				Entire Group											
4			Yellow and orange (2)(3)(14)				"											
5			Zinc yellow (6)(15)				"											
6			Sample Total (S and T)															
7			Section Total (S and T)															
8			ORGANIC															
9			"Monstrous" Reds (16)(17)				RT 742 D											
10			C.P.C. Green (18)(19)				GT 674 D											
11			C.P.C. Blue (20)(21)				RT 284 D											
12			Pigment Green B (22)(23)				GT 646 D											
13			PYMA (24) (25)				RT 612 D											
14			Lithol Rubine & "watching" (30)(31)(32)(33)				RT 428 D											
15			Other BON (35)(37)				RT 525 D											
16			Pigment Scarlet (39)				RT 211 D											
17			Kanthanthol Toner (40)				RT 519 D											
18			Kanthanthol Lake (41)				RM 545 D											
19			Toluidine (44) (45)				RT 386 D											
20			Orange Yellow (46)(47)				YT 145 D											
21			Benadine Yellow (48)				YT 159 D											
22			Non Azo BS (52)(53)				BP 273 D											
23			Sub Total (52 + 53)				BP 242 D											
24			Azo (54)(57)				YT 562 D											
25			Sample Total (S and T)															
26			Section Total (S and T)															
27			Total Colors															
28																		
29																		
30																		
31																		
32																		
33																		
34																		
35																		
36																		
37																		

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_a = \sum_{47-49-100} P_a Q_n = \sum_{47-49-100} P_{Dec} Q_n \times P_{Dec}$$

L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES VARIATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT QUANTITY AT				TOTAL DIV. AND DEPT. CALCULATION			
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	P _a	P _{Dec}	PRICE RELATIVE	P _a Q _n	P _{Dec} Q _n	Q _n	Q _n	Q _n	LINK RELATIVE	INDEX	INDEX	INDEX
								OPERATING DEPARTMENT (1)	OPERATING DEPARTMENT (2)	PRICE RELATIVE (3)	P _a Q _n (4)	P _{Dec} Q _n (5)	Q _n (6)	Q _n (7)	Q _n (8)	LINK RELATIVE (9)	INDEX (10)	INDEX (11)	INDEX (12)
1			PIGMENTS																
2			"Ti-Pure"																
3			Anatase	ALL grades	Lb.	S.P.	C/L Min. 20 Ton		25.50¢										
4			Rutile	ALL grades	Lb.	S.P.	C/L Min. 20 Ton		27.50¢										
5			Sample Total																
6			Product Total																
7			"Ti-Cal"																
8			Product Total	ALL grades except R-60	Lb.	S.P.	C/L Min. 20 Ton		9.375¢										
9			Colors																
10			Product Total	(see subsidiary worksheet)															
11			Total Pigments																
12			METALLICS																
13			Stearolite	ALL	Ton	S.P.	Bulk		\$ 4.88	102.05	33.7*	22.7							
14			Zircon	ALL	Ton	S.P.	Bulk		32.60	111.76	159.5*	142.7							
15			Silicon																
16			Grade 1	Needle	Lb.	S.P.	All quantities		320.00										
17			Densified		Lb.	S.P.	All quantities		330.00										
18			Standard Rod		Lb.	S.P.	All quantities		355.00										
19			Total																
20			Grade 2	Densified	Lb.	S.P.	All quantities		220.00										
21			Standard Rod		Lb.	S.P.	All quantities		255.00										
22			Total																
23			Grade 3	Densified	Lb.	S.P.	All quantities		130.00										
24			Standard Rod		Lb.	S.P.	All quantities		155.00										
25			Total																
26			Solar Cell		Lb.	S.P.	All quantities		90.00										
27			Sample Total																
28			Product Total																
29			Titanium Metal																
30			A-1	Sponge	Lb.	S.P.	Min. 100 lbs.		1.32	87.91	21.4	27.8							
31			A-2	Sponge (excl. fines & pellets)	Lb.	S.P.	Min. 100 lbs.		1.50	88.24									
32			Sample Total																
33			Product Total																
34			Total Metallics																
35																			
36			Total Pigments Department (line 11 + 34)																
37																			
38																			

38 (1) Price relative computed on page 2.

Pigments --- Colors DEPARTMENT MONTH OF 1959

Page 2 of 2 Pages

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES

USING THE FORMULA:

$$P_{47-49-100} = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49-100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (119 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM			CURRENT QUANTITY AT CURRENT PRICES			TOTAL DIV. AND DEPT. CALCULATION		
	SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	S. P.	P _{Dec}	P _n	PRICE RELATIVE	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	LINK RELATIVE	INDEX PRECEDING DECEMBER	CURRENT MONTH
1	INORGANIC												1
2	Polychrome orange (1)	Entire Group	Lb.	S. P.	Min. 250 lb.								2
3	Yellow and orange (2)(3)(14)	"	Lb.	S. P.	"								3
4	Zinc yellow (5)(15)	"	Lb.	S. P.	"								4
5	Sample Total (S and T)												5
6	Section Total (S and T)												6
7	ORGANIC												7
8	"Monstrous" Reds (16)(17)	RT-742-D	Lb.	S. P.	Barrel Quantities								8
9	C.P.C. Green (18)(19)	GT 674 D	Lb.	S. P.	Barrel Quantities								9
10	C.P.C. Blue (20)(21)	RT 284 D	"	"	"								10
11	Pigment Green B (22)(23)	GT 646 D	"	"	"								11
12	PMA (24) (25)	RT 612 D	"	"	"								12
13	Little Rubine & "Waterburg" (30)(31)(32)(33) RT 428 D		"	"	"								13
14	Other BOW (36)(37)	RT 525 D	"	"	"								14
15	Pigment Scarlet (39)	RT 211 D	"	"	"								15
16	Marbhanil Toner (40)	RT 539 D	"	"	"								16
17	Marbhanil Lake (41)	RT 545 D	"	"	"								17
18	Toluidine (44) (45)	RT 386 D	"	"	"								18
19	Haem Yellow (46)(47)	YT 445 D	"	"	"								19
20	Benzidine Yellow (48)	YT 459 D	"	"	"								20
21	Non Azo HS (52)(53)	BP 273 D	"	"	"								21
22		BP 242 D	"	"	"								22
23	Sub Total (52 + 53)												23
24	Azo (56)(57)	YT 562 D	"	"	"								24
25	Sample Total (S and T)												25
26	Section Total (S and T)												26
27	Total Colors												27
28													28
29													29
30													30
31													31
32													32
33													33
34													34
35													35
36													36
37													37
38													38

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_a \text{ 47-49-100} = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \text{ 47-49-100}$$

L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT QUANTITY AT				TOTAL DIV. AND DEPT. CALCULATION			
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	Current Month	Preceding December	Price Relative	Pn Qn	Current Prices (Numerator)	Preceding Prices (Denominator)	Current Quantity	Preceding Quantity	LINK RELATIVE	INDEX: 47-49-100	Current Month	Preceding Month
								(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)				
1			PIGMENTS																
2			"Ti-Pure"																
3			Anatase	All grades	Lb.	S.P.	C/L Min. 20 Ton		25.50¢										
4			Rutile	All grades	Lb.	S.P.	C/L Min. 20 Ton		27.50¢										
5			Sample Total																
6			Product Total																
7			"Ti-Cal"																
8			Product Total	All grades except R-60	Lb.	S.P.	C/L Min. 20 Ton		9.375¢										
9			Colors																
10			Product Total	(See subsidiary worksheet)															
11			Total Pigments																
12			METALLICS																
13			Stearolite	All	Ton	S.P.	Bulk		4.88										
14			Zircon	All	Ton	S.P.	Bulk		24.00										
15			Silicon																
16			Grade 1	Needle	Lb.	S.P.	All quantities		320.00										
17				Densified	Lb.	S.P.	All quantities		330.00										
18				Standard Rod	Lb.	S.P.	All quantities		355.00										
19			Total																
20			Grade 2	Densified	Lb.	S.P.	All quantities		220.00										
21				Standard Rod	Lb.	S.P.	All quantities		245.00										
22			Total																
23			Grade 3	Densified	Lb.	S.P.	All quantities		130.00										
24				Standard Rod	Lb.	S.P.	All quantities		155.00										
25			Total																
26			Solar Cell		Lb.	S.P.	All quantities		90.00										
27			Sample Total																
28			Product Total																
29			Titanium Metal																
30			A-1	Sponge	Lb.	S.P.	Min. 100 lbs.		1.82										
31			A-2	Sponge (Excl. fines & pellets)	Lb.	S.P.	Min. 100 lbs.		1.70										
32			Sample Total																
33			Product Total																
34			Total Metallics																
35																			
36			Total Pigments Department (line 11 + 34)																
37																			

all price relative computed on case 2.

DEPARTMENT

MONTH OF

1959

$$P_0 = \sum \frac{P_{0i} Q_{0i}}{\sum P_{0i} Q_{0i}} \times P_{Dec} \quad (1-49=100)$$

L	I	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT CURRENT PRICES (QUANTITIES)				TOTAL DIV. AND DEPT. CALCULATION			
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	PDEC	OPERATING DEPARTMENT (1)	PRECEDING DEPARTMENT (2)	PRICE RELATIVE (3)	PDEC Q0	129 SHEET OR SALES TAB. COLS. (4)	PDEC Q0	PRECEDING DEPARTMENT (5)	PRECEDING DEPARTMENT (6)	PRECEDING DEPARTMENT (7)	PRECEDING DEPARTMENT (8)	PRECEDING DEPARTMENT (9)	PRECEDING DEPARTMENT (10)
1				INORGANIC																
2				Molybdate orange (1)	Lb.	S. P.	Min. 250 lb.			48.00										
3				Yellow and orange (2)(3)(14)	Lb.	S. P.	"			31.50										
4				Zinc yellow (5)(15)	Lb.	S. P.	"			29.00										
5				Sample Total (S and T)																
6				Section Total (S and T)																
7				ORGANIC																
8				"Monastrol" Reds (15)(17)	Lb.	S. P.	Barrel Quantities			813.00	95.00									
9				C.P.C. Green (18)(19)	Lb.	S. P.	Barrel Quantities			3.35										
10				C.P.C. Blue (20)(21)	"	"	"			8.90	117.07									
11				Pigment Green B (22)(23)	"	"	"			1.45										
12				PMA (24) (25)	"	"	"			6.60										
13				Lithol Rubine & "Masthane" (30)(31)(32)(33) RT 423 D	"	"	"			1.90										
14				Other BON (35)(37)	"	"	"			2.05										
15				Pigment Scarlet (39)	"	"	"			1.75										
16				Anthranil Toner (40)	"	"	"			3.80										
17				Anthranil Lake (41)	"	"	"			.80										
18				Toluidine (44) (45)	"	"	"			1.70										
19				Hansa Yellow (46)(47)	"	"	"			2.20										
20				Benzidine Yellow (48)	"	"	"			25.00										
21				Non Azo HS (52)(53)	"	"	"			11.90										
22				Sub Total (52 + 53)																
23				Azo (56)(57)	"	"	"			5.90										
24				Sample Total (S and T)																
25				Section Total (S and T)																
26				Total Colors																
27																				
28																				
29																				
30																				
31																				
32																				
33																				
34																				
35																				
36																				
37																				

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec}$$

47-49=100 47-49=100

DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)		SPECIFICATIONS OF SAMPLE ITEM			QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT CURRENT PRICES (NUMERATOR)		TOTAL DIV. AND DEPT. CALCULATION		INDEX: PRECEDING DECEMBER	INDEX: 47-49=100
					Pn	PRECEDING DEPARTMENT (1)	PRICE RELATIVE (2)	PDec	Pn Qn	PDec Qn	LINK RELATIVE (6)	PRECEDING DECEMBER		
Pigments														
1	"Ti-Pure"													
2	Augfast	ALL Grades	Lb.	S.P.	C/L Min. 20 Ton			25.504						
3	Rutile	ALL Grades	Lb.	S.P.	C/L Min. 20 Ton			27.504						
4	Sample Total													
5	Product Total								4944.4 *					
6	"Ti-Cal"													
7	Product Total								1886 *					
8	Colors	ALL Grades except R-60	Lb.	S.P.	C/L Min. 20 Ton			9.3754						
9	Product Total	(See subsidiary worksheet)												
10	Total Pigments								1432.0 *	1410.1				
11	Metals								6566.0 (*)	6544.1	100.33	131.2	131.6	
12	Stearolite	ALL	Ton	S.P.	Bulk			\$ 4.88	41.0 *					
13	Zircon	ALL	Ton	S.P.	Bulk			34.00	124.6 *	122.4				
14	Silicon													
15	Grade 1	Needle	Lb.	S.P.	ALL quantities			380.00						
16	Densified	Densified	Lb.	S.P.	ALL quantities			330.00						
17	Standard Rod	Standard Rod	Lb.	S.P.	ALL quantities			355.00						
18	Total													
19	Grade 2	Densified	Lb.	S.P.	ALL quantities			220.00						
20	Standard Rod	Standard Rod	Lb.	S.P.	ALL quantities			265.00						
21	Total													
22	Grade 3	Densified	Lb.	S.P.	ALL quantities			130.00						
23	Standard Rod	Standard Rod	Lb.	S.P.	ALL quantities			155.00						
24	Total													
25	Solar Cell													
26	Sample Total							90.00						
27	Product Total													
28	Titanium Metal								4281 *					
29	A-1	Sponge	Lb.	S.P.	Min. 100 lbs.			1.82						
30	A-2	Sponge (Excl. fines & pellets)	Lb.	S.P.	Min. 100 lbs.			1.70						
31	Sample Total													
32	Product Total								277.4 *					
33	Total Metals								876.1 (*)	868.9	100.83	45.6	46.0	
34	Total Pigments Department (line 11 + 34)								742.1	7412.0	100.39	102.0	102.4	
35														
36														
37														
38														

... All dollar values converted on page 2.

10-1117

Pigments --- Colors DEPARTMENT MONTH OF 1959

Page 2 of 2 Pages

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES

USING THE FORMULA:

$$P_{47-49-100} = \sum P_n Q_n = \sum P_{Dec} Q_n \times P_{Dec} \quad 47-49-100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (119 SHEET OR SALES TABULATION CLASSIFICATION)		SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT QUANTITY AT				TOTAL DIV. AND DEPT. CALCULATION			
L	N	E	Specific Sample Item	UNIT	F.O.B.	Pb	OPERATING DEPARTMENT (1)	PRECEDING DEPARTMENT (2)	PRICE RELATIVE COLS. (3)	Pn Qn	PDec Qn	COLS. (4)	SALES TAB. (5)	Pn Qn	PDec Qn	COLS. (6)	INDEX: PRECEDING DEPARTMENT 47-49-100
1			INORGANIC														
2			Molybdate orange (1)														
3			Yellow and orange (2)(3)(14)	Lb.	S. P.			48.00									
4			"	Lb.	S. P.			31.90									
5			Zinc yellow (6)(15)	Lb.	S. P.			29.00									
6			Sample Total (S and T)														
7			Section Total (S and T)														
8			ORGANIC														
9			"Monastrol" Reds (16)(17)														
10			RT-742-D														
11			RT 874 D	Lb.	S. P.			\$13.00									
12			RT 284 D	Lb.	S. P.			3.35									
13			RT 646 D	"	"			2.90									
14			RT 612 D	"	"			1.55									
15			RT 512 D	"	"			6.60									
16			RT 225 D	"	"			1.90									
17			RT 211 D	"	"			2.05									
18			RT 539 D	"	"			1.75									
19			RT 515 D	"	"			1.80									
20			RT 386 D	"	"			.80									
21			RT 445 D	"	"			1.70									
22			RT 159 D	"	"			2.20									
23			RT 271 D	"	"			2.20									
24			RT 242 D	"	"			25.00									
25			RT 562 D	"	"			11.90									
26			Sub Total (52 + 53)					5.90									
27			Azo (54)(57)														
28			Sample Total (S and T)														
29			Section Total (S and T)														
30			Total Colors														
31																	
32																	
33																	
34																	
35																	
36																	
37																	

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49=100 \quad 47-49=100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT CURRENT PRICES (NOMINATION)				TOTAL DIV. AND DEPT. CALCULATION			
					Pn	PRECEDING DEPARTMENT (1)	PRECEDING MONTH (2)	PRECEDING RELATIVE (3)	Pn Qn	PRECEDING DEPT. SALES TAB. (4)	PRECEDING COLS. (5)	PRECEDING INDEX (6)	LINK RELATIVE (7)	PRECEDING DEPARTMENT (8)	PRECEDING MONTH (9)	PRECEDING INDEX (10)
1	PIGMENTS															
2	"Ti-Pure"															
3	Amalgam															
4	Rutile															
5	Sample Total															
6	Product Total															
7	"Ti-Cal"															
8	Product Total															
9	Colors															
10	Product Total															
11	Total Pigments															
12	METALLICS															
13	Stearolite															
14	Zircon															
15	Silicon															
16	Grade 1															
17	Densified															
18	Standard Rod															
19	Total															
20	Grade 2															
21	Densified															
22	Standard Rod															
23	Total															
24	Grade 3															
25	Total															
26	Solar Cell															
27	Sample Total															
28	Product Total															
29	Titanium Metal															
30	A-1															
31	A-2															
32	Sample Total															
33	Product Total															
34	Total Metallica															
35																
36	Total Pigments Department (line 11 + 34)															
37																

$$P_n = \sum_{i=1}^n P_n Q_n = \sum_{i=1}^n P_{Dec} Q_n \quad X \quad P_{Dec} \quad 47-49=100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (119 SHEET OR SALES TABULATION CLASSIFICATION)		SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT DECEMBER PRICES (UNQUOTED)				TOTAL DIV. AND DEPT. CALCULATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						PRECEDING MONTH		PRECEDING DEPARTMENT		PRICE RELATIVE		Pn Qn		PDec Qn		LINK RELATIVE		PRECEDING DEPARTMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49=100 \quad 47-49=100$$

P ₄₇₋₄₉₌₁₀₀			= $\frac{\sum P_n Q_n}{\sum P_{Dec} Q_n}$ X $\frac{P_{Dec}}{47-49=100}$			SPECIFICATIONS OF SAMPLE ITEM			QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT QUANTITY AT				TOTAL DIV. AND DEPT. CALCULATION			
									CURRENT MONTH		PRECEDING DECEMBER		PRICE RELATIVE		CURRENT MONTH		PRECEDING DECEMBER		LINK RELATIVE	
L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (19 SHEET OR SALES TABULATION CLARIFICATION)	SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR CARTON SIZE	P _n	P _{Dec}	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	P _n Q _n	P _{Dec} Q _n	
1	2	3	PIGMENTS	1				1												
4	5	6	"Ti-Pure"	2				2												
7	8	9	All grades	3	Lb.	S.P.	C/L Min. 20 Ton		25.50¢											
10	11	12	All grades	4	Lb.	S.P.	C/L Min. 20 Ton		27.50¢											
15	16	17	Sample Total	5																
18	19	20	Product Total	6																
21	22	23	"Ti-Cal"	7																
24	25	26	All grades except R-50	8	Lb.	S.P.	C/L Min. 20 Ton		9.375¢											
27	28	29	Colors	9																
30	31	32	Product Total	10																
33	34	35	Total PIGMENTS	11																
36	37	38	METALLICS	12																
39	40	41	Stannolite	13	Ton	S.P.	Bulk													
42	43	44	Zircon	14	Ton	S.P.	Bulk													
45	46	47	Silicon	15																
48	49	50	Grade 1	16	Lb.	S.P.	All quantities		320.00											
51	52	53	Densified	17	Lb.	S.P.	All quantities		330.00											
54	55	56	Standard Rod	18	Lb.	S.P.	All quantities		355.00											
57	58	59	Total	19																
60	61	62	Grade 2	20	Lb.	S.P.	All quantities		220.00											
63	64	65	Standard Rod	21	Lb.	S.P.	All quantities		245.00											
66	67	68	Total	22																
69	70	71	Grade 3	23	Lb.	S.P.	All quantities		130.00											
72	73	74	Standard Rod	24	Lb.	S.P.	All quantities		155.00											
75	76	77	Total	25																
78	79	80	Solar Cell	26	Lb.	S.P.	All quantities		90.00											
81	82	83	Sample Total	27																
84	85	86	Product Total	28																
87	88	89	Titanium Metal	29																
90	91	92	A-1	30	Lb.	S.P.	Min. 100 lbs.		1.82											
93	94	95	A-2	31	Lb.	S.P.	Min. 100 lbs.		1.70											
96	97	98	Sample Total	32																
99	100	101	Product Total	33																
102	103	104	Total METALLICS	34																
105	106	107	Total PIGMENTS	35																
108	109	110	Total PIGMENTS	36																
111	112	113	Total PIGMENTS	37																
114	115	116	Total PIGMENTS	38																
117	118	119	Total PIGMENTS	39																
120	121	122	Total PIGMENTS	40																
123	124	125	Total PIGMENTS	41																
126	127	128	Total PIGMENTS	42																
129	130	131	Total PIGMENTS	43																
132	133	134	Total PIGMENTS	44																
135	136	137	Total PIGMENTS	45																
138	139	140	Total PIGMENTS	46																
141	142	143	Total PIGMENTS	47																
144	145	146	Total PIGMENTS	48																
147	148	149	Total PIGMENTS	49																
150	151	152	Total PIGMENTS	50																
153	154	155	Total PIGMENTS	51																
156	157	158	Total PIGMENTS	52																
159	160	161	Total PIGMENTS	53																
162	163	164	Total PIGMENTS	54																
165	166	167	Total PIGMENTS	55																
168	169	170	Total PIGMENTS	56																
171	172	173	Total PIGMENTS	57																
174	175	176	Total PIGMENTS	58																
177	178	179	Total PIGMENTS	59																
180	181	182	Total PIGMENTS	60																
183	184	185	Total PIGMENTS	61																
186	187	188	Total PIGMENTS	62																
189	190	191	Total PIGMENTS	63																
192	193	194	Total PIGMENTS	64																
195	196	197	Total PIGMENTS	65																
198	199	200	Total PIGMENTS	66																
201	202	203	Total PIGMENTS	67																
204	205	206	Total PIGMENTS	68																
207	208	209	Total PIGMENTS	69																
210	211	212	Total PIGMENTS	70																
213	214	215	Total PIGMENTS	71																
216	217	218	Total PIGMENTS	72																
219	220	221	Total PIGMENTS	73																
222	223	224	Total PIGMENTS	74																
225	226	227	Total PIGMENTS	75																
228	229	230	Total PIGMENTS	76																
231	232	233	Total PIGMENTS	77																
234	235	236	Total PIGMENTS	78																
237	238	239	Total PIGMENTS	79																
240	241	242	Total PIGMENTS	80																
243	244	245	Total PIGMENTS	81																
246	247	248	Total PIGMENTS	82																
249	250	251	Total PIGMENTS	83																
252	253	254	Total PIGMENTS	84																
255	256	257	Total PIGMENTS	85																
258	259	260	Total PIGMENTS	86																
261	262	263	Total PIGMENTS	87																
264	265	266	Total PIGMENTS	88																
267	268	269	Total PIGMENTS	89																
270	271	272	Total PIGMENTS	90																
273	274	275	Total PIGMENTS	91																
276	277	278	Total PIGMENTS	92																
279	280	281	Total PIGMENTS	93																
282	283	284	Total PIGMENTS	94																
285	286	287	Total PIGMENTS	95																
288	289	290	Total PIGMENTS	96																
291	292	293	Total PIGMENTS	97																
294	295	296	Total PIGMENTS	98																
297	298	299	Total PIGMENTS	99																
300	301	302	Total PIGMENTS	100																

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_a = \frac{\sum P_a Q_a}{\sum P_{Dec} Q_a} \times P_{Dec} \quad 47-49=100$$

L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITIES AT PRESENT PRICES				TOTAL DIV. AND DEPT. CALCULATION			
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGES OR OTHER SIZE	P _a	P _{Dec}	P _{Dec} Q _a	P _{Dec} Q _a	P _a Q _a	P _{Dec} Q _a	P _a Q _a	P _{Dec} Q _a	P _a Q _a	P _{Dec} Q _a	P _a Q _a	P _{Dec} Q _a
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320
321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340
341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360
361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400
401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500
501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520
521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540
541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560
561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580
581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600
601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620
621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640
641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660
661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680
681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700
701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720
721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740
741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760
761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780
781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800
801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820
821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840
841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860
861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880
881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900
901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920
921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940
941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960
961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980
981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000

All prices relative computed on base 2.

FIGURES --- COLORS DEPARTMENT MONTH OF 1959
Page 2 of 2 Pages
MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_{47-48=100} = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-48=100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)		SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM		CURRENT QUANTITY AT CURRENT MONTH (NOMINATION)		TOTAL DIV. AND DEPT. CALCULATION	
						PRECEDING DEPARTMENT MONTH	PRICE RELATIVE	PRECEDING DEPARTMENT MONTH	PRICE RELATIVE	PRECEDING DEPARTMENT MONTH	PRICE RELATIVE
						Pn	PDec	Pn Qn	PDec Qn	Pn Qn	PDec Qn
						OPERATING DEPARTMENT (1)	OPERATING DEPARTMENT (2)	129 SHEET OR SALES TAB. (4)	COLS. (5)	COLS. (6)	ECONOMIST'S OFFICE (7)
						(1)	(2)	(3)	(4)	(5)	(6)
						L	N	Pn	PDec	Pn Qn	PDec Qn
						1	2	3	4	5	6
						7	8	9	10	11	12
						13	14	15	16	17	18
						19	20	21	22	23	24
						25	26	27	28	29	30
						31	32	33	34	35	36
						37	38	39	40	41	42
						43	44	45	46	47	48
						49	50	51	52	53	54
						55	56	57	58	59	60
						61	62	63	64	65	66
						67	68	69	70	71	72
						73	74	75	76	77	78
						79	80	81	82	83	84
						85	86	87	88	89	90
						91	92	93	94	95	96
						97	98	99	100	101	102
						103	104	105	106	107	108
						109	110	111	112	113	114
						115	116	117	118	119	120
						121	122	123	124	125	126
						127	128	129	130	131	132
						133	134	135	136	137	138
						139	140	141	142	143	144
						145	146	147	148	149	150
						151	152	153	154	155	156
						157	158	159	160	161	162
						163	164	165	166	167	168
						169	170	171	172	173	174
						175	176	177	178	179	180
						181	182	183	184	185	186
						187	188	189	190	191	192
						193	194	195	196	197	198
						199	200	201	202	203	204
						205	206	207	208	209	210
						211	212	213	214	215	216
						217	218	219	220	221	222
						223	224	225	226	227	228
						229	230	231	232	233	234
						235	236	237	238	239	240
						241	242	243	244	245	246
						247	248	249	250	251	252
						253	254	255	256	257	258
						259	260	261	262	263	264
						265	266	267	268	269	270
						271	272	273	274	275	276
						277	278	279	280	281	282
						283	284	285	286	287	288
						289	290	291	292	293	294
						295	296	297	298	299	300
						301	302	303	304	305	306
						307	308	309	310	311	312
						313	314	315	316	317	318
						319	320	321	322	323	324
						325	326	327	328	329	330
						331	332	333	334	335	336
						337	338	339	340	341	342
						343	344	345	346	347	348
						349	350	351	352	353	354
						355	356	357	358	359	360
						361	362	363	364	365	366
						367	368	369	370	371	372
						373	374	375	376	377	378
						379	380	381	382	383	384
						385	386	387	388	389	390
						391	392	393	394	395	396
						397	398	399	400	401	402
						403	404	405	406	407	408
						409	410	411	412	413	414
						415	416	417	418	419	420
						421	422	423	424	425	426
						427	428	429	430	431	432
						433	434	435	436	437	438
						439	440	441	442	443	444
						445	446	447	448	449	450
						451	452	453	454	455	456
						457	458	459	460	461	462
						463	464	465	466	467	468
						469	470	471	472	473	474
						475	476	477	478	479	480
						481	482	483	484	485	486
						487	488	489	490	491	492
						493	494	495	496	497	498
						499	500	501	502	503	504
						505	506	507	508	509	510
						511	512	513	514	515	516
						517	518	519	520	521	522
						523	524	525	526	527	528
						529	530	531	532	533	534
						535	536	537	538	539	540
						541	542	543	544	545	546
						547	548	549	550	551	552
						553	554	555	556	557	558
						559	560	561	562	563	564
						565	566	567	568	569	570
						571	572	573	574	575	576
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						595	596	597	598	599	600
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						613	614	615	616	617	618
						619	620	621	622	623	624
						625	626	627	628	629	630
						631	632	633	634	635	636
						637	638	639	640	641	642
						643	644	645	646	647	648
						649	650	651	652	653	654
						655	656	657	658	659	660
						661	662	663	664	665	666
						667	668	669	670	671	672
						673	674	675	676	677	678
						679	680	681	682	683	684
						685	686	687	688	689	690
						691	692	693	694	695	696
						697	698	699	700	701	702
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						709	710	711	712	713	714
						715	716	717	718	719	720
						721	722	723	724	725	726
						727	728	729	730	731	732
						733	734	735	736	737	738
						739	740	741	742	743	744
						745	746	747	748	749	750
						751	752	753	754	755	756
						757	758	759	760	761	762
						763	764	765	766	767	768
						769	770	771	772	773	774
						775	776	777	778	779	780
						781	782	783	784	785	786
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						793	794	795	796	797	798
						799	800	801	802	803	804
						805	806	807	808	809	810
						811	812	813	814	815	816
						817	818	819	820	821	822
						823	824	825	826	827	828
						829	830	831	832	833	834
						835	836	837	838	839	840
						841	842	843	844	845	846
						847	848	849	850	851	852
						853	854	855	856	857	858
						859	860	861	862	863	864
						865	866	867	868	869	870
						871	872	873	874	875	876
						877	878	879	880	881	882
						883	884	885	886	887	888
						889	890	891	892	893	894
						895	896	897	898	899	900
						901	902	903	904	905	906
						907	908	909	910	911	912
						913	914	915	916	917	918
						919	920	921	922	923	924
						925	926	927	928	929	930
						931	932	933	934	935	936
						937	938	939	940	941	942
						943	944	945	946	947	948
						949	950	951	952	953	954
						955	956	957	958	959	960
						961	962	963	964	965	966
						967	968	969	970	971	972
						973	974	975	976	977	978
						979	980	981	982	983	984
						985	986	987	988	989	990
						991	992	993	994	995	996
						997	998	999	1000	1001	1002
						1003	1004	1005	1006	1007	1008
						1009	1010	1011	1012	1013	1014
						1015	1016	1017	1018	1019	1020
						1021	1022	1023	1024	1025	1026
						1027	1028	1029	1030	1031	1032
						1033	1034	1035	1036	1037	1038
						1039	1040	1041	1042	1043	1044
						1045	1046	1047	1048	1049	1050
						1051	1052	1053	1054	1055	1056
						1057	1058	1059	1060	1061	1062
						1063	1064	1065	1066	1067	1068
						1069	1070	1071	1072	1073	1074
						1075	1076	1077	1078	1079	1080
						1081	1082	1083	1084	1085	1086

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_n = \frac{\sum p_n q_n}{\sum p_{Dec} q_n} \times P_{Dec} \quad 47-49=100$$

L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (128 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM			CURRENT QUANTITY AT DEPARTMENT PRICES (OPERATION)			TOTAL DIV. AND DEPT. CALCULATION		
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	Current Month	Preceding December	Price Relative	Pa Qn	PDec Qn	Pa Qn	LINK RELATIVE	INDEX: PRECEDING DECEMBER	CURRENT MONTH
1			PIGMENTS					(1)	PDec	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2			"Ti-Pure"													
3			Amatase	All grades	Lb. S.P.		C/L Min. 20 Ton	25.504								
4			Rutile	All grades	Lb. S.P.		C/L Min. 20 Ton	27.504								
5			Sample Total													
6			Product Total													
7			"Ti-Gal"													
8			Product Total	All grades except R-60	Lb. S.P.		C/L Min. 20 Ton	9.3756								
9			Colors													
10			Product Total	(See subsidiary worksheet)				(1)								
11			Total Pigments													
12			METALLICS													
13			Stearolite	All	Ton S.P.		Bulk	\$ 4.88								
14			Zircon	All	Ton S.P.		Bulk	34.00								
15			Silicon													
16			Grade 1	Needle	Lb. S.P.		All quantities	320.00								
17			Densified		Lb. S.P.		All quantities	330.00								
18			Standard Rod		Lb. S.P.		All quantities	355.00								
19			Total													
20			Grade 2	Densified	Lb. S.P.		All quantities	220.00								
21			Standard Rod		Lb. S.P.		All quantities	245.00								
22			Total													
23			Grade 3	Densified	Lb. S.P.		All quantities	130.00								
24			Standard Rod		Lb. S.P.		All quantities	155.00								
25			Total													
26			Solar Cell		Lb. S.P.		All quantities	90.00								
27			Sample Total													
28			Product Total													
29			Titanium Metal													
30			A-1	Sponge	Lb. S.P.		Min. 100 lbs.	1.82								
31			A-2	Sponge (Excl. fines & pellets)	Lb. S.P.		Min. 100 lbs.	1.70								
32			Sample Total													
33			Product Total													
34			Total Metallics													
35																
36			Total Pigments Department (Line 12 + 34)													
37																
38																

** (1) Price relative computed on case 2.

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES

USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49-100$$

DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR BLUE TABULATION CLASSIFICATION)	SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT QUANTITY AT				TOTAL DIV AND DEPT. CALCULATION			
					Pn	PDec	PRICE RELATIVE	Pn Qn	PDec Qn	Pn Qn	PDec Qn	Pn Qn	LINK RELATIVE	INDEX: 47-49-100	CURRENT MONTH	PREVIOUS MONTH
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
INORGANIC																
1	Molybdate orange (1)		LB. S. P.	Min. 250 lb.												
2	Yellow and orange (2)(3)(14)		LB. S. P.	"												
3	Zinc yellow (5)(15)		LB. S. P.	"												
4	Sample Total (S and T)															
5	Section Total (S and T)															
ORGANIC																
6	"Monastrol" Reds (16)(17)		LB. S. P.	Barrel Quantities												
7	Red 674 D		LB. S. P.	"												
8	Red 674 D		LB. S. P.	"												
9	Red 674 D		LB. S. P.	"												
10	Red 674 D		LB. S. P.	"												
11	Red 674 D		LB. S. P.	"												
12	Red 674 D		LB. S. P.	"												
13	Red 674 D		LB. S. P.	"												
14	Red 674 D		LB. S. P.	"												
15	Red 674 D		LB. S. P.	"												
16	Red 674 D		LB. S. P.	"												
17	Red 674 D		LB. S. P.	"												
18	Red 674 D		LB. S. P.	"												
19	Red 674 D		LB. S. P.	"												
20	Red 674 D		LB. S. P.	"												
21	Red 674 D		LB. S. P.	"												
22	Red 674 D		LB. S. P.	"												
23	Red 674 D		LB. S. P.	"												
24	Red 674 D		LB. S. P.	"												
25	Red 674 D		LB. S. P.	"												
26	Red 674 D		LB. S. P.	"												
27	Red 674 D		LB. S. P.	"												
28	Red 674 D		LB. S. P.	"												
29	Red 674 D		LB. S. P.	"												
30	Red 674 D		LB. S. P.	"												
31	Red 674 D		LB. S. P.	"												
32	Red 674 D		LB. S. P.	"												
33	Red 674 D		LB. S. P.	"												
34	Red 674 D		LB. S. P.	"												
35	Red 674 D		LB. S. P.	"												
36	Red 674 D		LB. S. P.	"												
37	Red 674 D		LB. S. P.	"												
38	Red 674 D		LB. S. P.	"												
39	Red 674 D		LB. S. P.	"												
40	Red 674 D		LB. S. P.	"												
41	Red 674 D		LB. S. P.	"												
42	Red 674 D		LB. S. P.	"												
43	Red 674 D		LB. S. P.	"												
44	Red 674 D		LB. S. P.	"												
45	Red 674 D		LB. S. P.	"												
46	Red 674 D		LB. S. P.	"												
47	Red 674 D		LB. S. P.	"												
48	Red 674 D		LB. S. P.	"												
49	Red 674 D		LB. S. P.	"												
50	Red 674 D		LB. S. P.	"												
51	Red 674 D		LB. S. P.	"												
52	Red 674 D		LB. S. P.	"												
53	Red 674 D		LB. S. P.	"												
54	Red 674 D		LB. S. P.	"												
55	Red 674 D		LB. S. P.	"												
56	Red 674 D		LB. S. P.	"												
57	Red 674 D		LB. S. P.	"												
58	Red 674 D		LB. S. P.	"												
59	Red 674 D		LB. S. P.	"												
60	Red 674 D		LB. S. P.	"												
61	Red 674 D		LB. S. P.	"												
62	Red 674 D		LB. S. P.	"												
63	Red 674 D		LB. S. P.	"												
64	Red 674 D		LB. S. P.	"												
65	Red 674 D		LB. S. P.	"												
66	Red 674 D		LB. S. P.	"												
67	Red 674 D		LB. S. P.	"												
68	Red 674 D		LB. S. P.	"												
69	Red 674 D		LB. S. P.	"												
70	Red 674 D		LB. S. P.	"												
71	Red 674 D		LB. S. P.	"												
72	Red 674 D		LB. S. P.	"												
73	Red 674 D		LB. S. P.	"												
74	Red 674 D		LB. S. P.	"												
75	Red 674 D		LB. S. P.	"												
76	Red 674 D		LB. S. P.	"												
77	Red 674 D		LB. S. P.	"												
78	Red 674 D		LB. S. P.	"												
79	Red 674 D		LB. S. P.	"												
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81	Red 674 D		LB. S. P.	"												
82	Red 674 D		LB. S. P.	"												
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84	Red 674 D		LB. S. P.	"												
85	Red 674 D		LB. S. P.	"												
86	Red 674 D		LB. S. P.	"												
87	Red 674 D		LB. S. P.	"												
88	Red 674 D		LB. S. P.	"												
89	Red 674 D		LB. S. P.	"												
90	Red 674 D		LB. S. P.	"												
91	Red 674 D		LB. S. P.	"												
92	Red 674 D		LB. S. P.	"												
93	Red 674 D		LB. S. P.	"												
94	Red 674 D		LB. S. P.	"												
95	Red 674 D		LB. S. P.	"												
96	Red 674 D		LB. S. P.	"												
97	Red 674 D		LB. S. P.	"												
98	Red 674 D		LB. S. P.	"												
99	Red 674 D		LB. S. P.	"												
100	Red 674 D		LB. S. P.	"												

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES
USING THE FORMULA:

$$P_n = \frac{\sum P_n Q_n}{\sum P_{Dec} Q_n} \times P_{Dec} \quad 47-49=100$$

L	N	E	DIVISION AND PRODUCT OR PRODUCT GROUP (129 SHEET OR SALES TABULATION CLASSIFICATION)	SPECIFICATIONS OF SAMPLE ITEM				QUOTED PRICE OF SAMPLE ITEM				CURRENT QUANTITY AT DEPARTMENT PRICES (NUMERATOR)				TOTAL DIV. AND DEPT. CALCULATION			
				SPECIFIC SAMPLE ITEM	UNIT	F.O.B.	PACKAGE OR ORDER SIZE	Pn	OPERATING DEPARTMENT (1)	PRECEDING DEPARTMENT (2)	PRICE RELATIVE PDec	Pn Qn	PDec Qn	COLS. (3)	COLS. (4)	LINK RELATIVE PDec Qn	INDEX: PRECEDING DEPARTMENT MONTH	ECONOMIST'S OFFICE COLS. (6) X (7)	CURRENT MONTH
1			Pigments																
2			"Ti-Pure"																
3			All grades		Lb.	S.P.	C/L Min. 20 Ton			25.50¢									
4			Rutile		Lb.	S.P.	C/L Min. 20 Ton			27.50¢									
5			Sample Total																
6			Product Total																
7			"Ti-Gal"																
8			Product Total		Lb.	S.P.	C/L Min. 20 Ton			9.37¢									
9			Colors																
10			Product Total																
11			Total Pigments				(See subsidiary worksheet)												
12			RETAILERS																
13			Stearolite		Ton	S.P.	Bulk			\$ 4.88									
14			Zircon		Ton	S.P.	Bulk			34.00									
15			Silicon																
16			Grade 1		Lb.	S.P.	All quantities			320.00									
17			Densified		Lb.	S.P.	All quantities			330.00									
18			Standard Rod		Lb.	S.P.	All quantities			355.00									
19			Total																
20			Grade 2		Lb.	S.P.	All quantities			220.00									
21			Standard Rod		Lb.	S.P.	All quantities			245.00									
22			Total																
23			Grade 3		Lb.	S.P.	All quantities			130.00									
24			Standard Rod		Lb.	S.P.	All quantities			155.00									
25			Total																
26			Solar Cell		Lb.	S.P.	All quantities			90.00									
27			Sample Total																
28			Product Total																
29			Titanium Metal																
30			A-1		Lb.	S.F.	Min. 100 lbs.			1.82									
31			A-2		Lb.	S.P.	Min. 100 lbs.			1.70									
32			Sample Total																
33			Product Total																
34			Total Metallics																
35			Total Pigments Department (line 11 + 34)																
36																			
37																			
38																			

-- 1/1 Price relative computed on base 2.

MONTHLY WORKSHEET FOR CALCULATING LINK RELATIVES AND INDEXES USING THE FORMULA:

USING THE FORMULA:

$$P_n^{47-49=100} = \frac{\sum p_n q_n}{\sum p_{Dec} q_n} \times P_{Dec}^{47-49=100}$$

P ₀ 47-48=100		= $\frac{\sum P_n Q_n}{\sum P_{Dec} Q_n}$		X P _{Dec} 47-48=100	
DIVISION AND PRODUCT OR PRODUCT GROUP (120 SHEET OR SALES TABULATION CLASSIFICATION)		SPECIFICATIONS OF SAMPLE ITEM			L N E
Specific Sample Item		Unit	F.O.B.	Package or Order Size	
INORGANIC					1
Polydate orange (1)					2
Yellow and orange (2)(3)(4)		Lb.	S. P.	Min. 250 lb.	3
Zinc yellow (5)(15)		Lb.	S. P.	" "	4
Sample Total (5 and 15)					5
Section Total (5 and 15)					6
ORGANIC					7
"Monastrol" Reds (16)(17)		Lb.	S. P.	Barrel Quantities	8
C.P.C. Green (18)(19)		Lb.	S. P.	Barrel Quantities	9
C.P.C. Blue (20)(21)		" "	" "	" "	10
Pigment Green B (22)(23)		" "	" "	" "	11
PMA (24) (25)		" "	" "	" "	12
Lithol Rubina & "Watchung" (30)(31)(32)(33) RT 423 D		" "	" "	" "	13
Other Box (36)(37)		" "	" "	" "	14
Element Scarlet (39)		" "	" "	" "	15
Naphthol Toner (40)		" "	" "	" "	16
Methanil Lake (41)		" "	" "	" "	17
Toluidina (44) (45)		" "	" "	" "	18
Hansa Yellow (46)(47)		" "	" "	" "	19
Benzidine Yellow (48)		" "	" "	" "	20
Non Azo BS (52)(53)		" "	" "	" "	21
Sub Total (52 + 53)		" "	" "	" "	22
Azo (56)(57)		" "	" "	" "	23
Sample Total (5 and 15)					24
Section Total (5 and 15)					25
Total Colors					26
					27
					28
					29
					30
					31
					32
					33
					34
					35
					36
					37
					38