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Catalogue No. 57-002 Vol. 4, No. 9 March 21, 1969

Price Indexes of Electric Utility Construction

Distribution Systems

Transmission Lines

Transformation and Switching Stations

1961=100

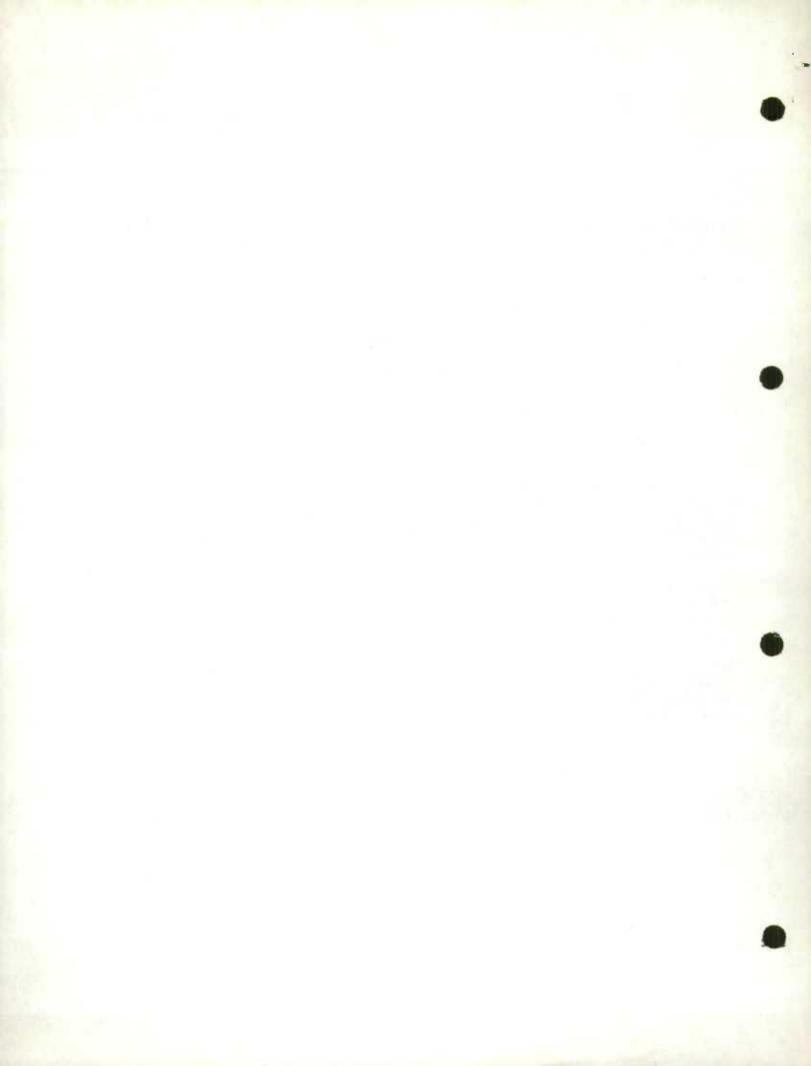
The base-weighted price indexes of the cost of constructing electric utility distribution systems, transmission lines and transformation and switching stations in Canada express prices for materials, labour and equipment in a given year, as a percentage of prices for the same components of cost in the base year 1961. Annual commodity, group and total indexes are presented herein for distribution systems, transmission lines and transformation and switching stations. Unless noted on the tables, indexes from 1956 to 1966 remain unchanged, the 1967 preliminary indexes, published in the July 1968 issue of "Prices and Price Indexes" have been reviewed and revised; the 1968 indexes are provided as preliminary estimates.

Users are asked to note that the transformation and switching station indexes have been defined to relate to stations "at generating plants". Appropriately adjusted indexes for transformation and switching stations at other locations will be published following the clarification of the appropriate federal sales tax rates for transformers at other locations.

Characteristics of Recent Price Movement

To place recent index movements in their larger context a brief review of changes in the supply and demand characteristics relating to electric utility construction is provided.

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Capital expenditures in Canada underwent a modest increase of about 4 percent in 1968, recovering somewhat from 1967 wherein expenditures held close to 1966 levels. The 1968 increase was smaller than the sharp increases of about 17 percent achieved in both 1966 and 1965.

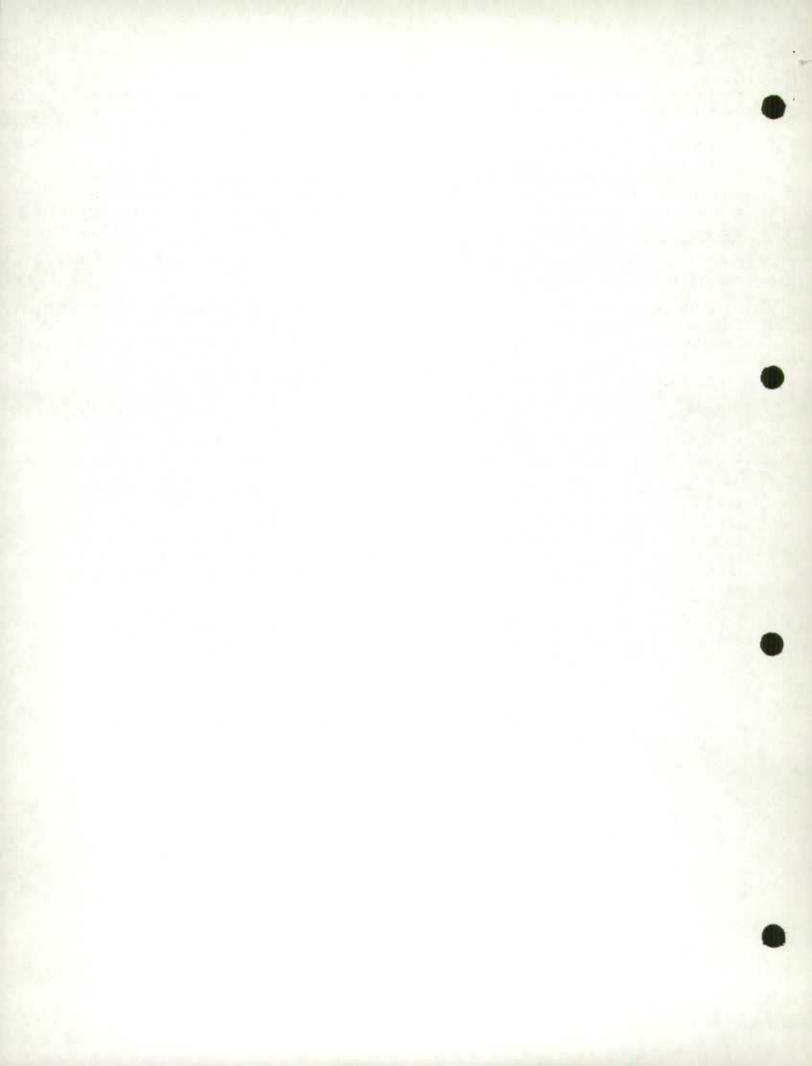
Capital expenditures by electric utilities, increasing somewhat less than 3 percent over 1967 levels, showed sharply lower increases in 1968 than those recorded in the previous three years. The electric utilities share of the capital expenditure dollar has continued to show fractional changes and has, for the last four years stood at about 8 percent of the total. The continuing growth of utility capital expenditures has been accompanied by continued year to year increase in real output and net generating capability by electric utilities.

On the supply side, employment in construction and in the industry manufacturing heavy electrical equipment declined in 1968 as it had in 1967. The decline in employment accompanied a smaller decline in real output of the industry manufacturing heavy electric equipment. Imports of a selected list of important elements of electrical equipment declined in 1968 unlike 1967 which was a year of sharp increases. Most of the decline was attributable to declines in imports of turbo generators, components of switchgear and transmission towers.

Average bond yields for utilities underwent another sharp increase in 1968, an increase one point less than the increase of 13.2 percent which occurred in 1966.

The index behaviour accompanying these changes in aggregative supply and demand showed either declines or smaller increases: the transmission lines index rose 2.4 per cent in 1968 compared to the previous years increase of 5.1 per cent; the transformation and switching stations index declined 4.2 per cent, a larger decrease than occurred in 1967, none of which was attributable to changes which occurred in that year in Federal Sales Tax; the distribution systems index stands fractionally lower than its 1967 level.

This general pattern is reflected in the behaviour of item indexes. The exceptions to this pattern were items of small weight in the index.



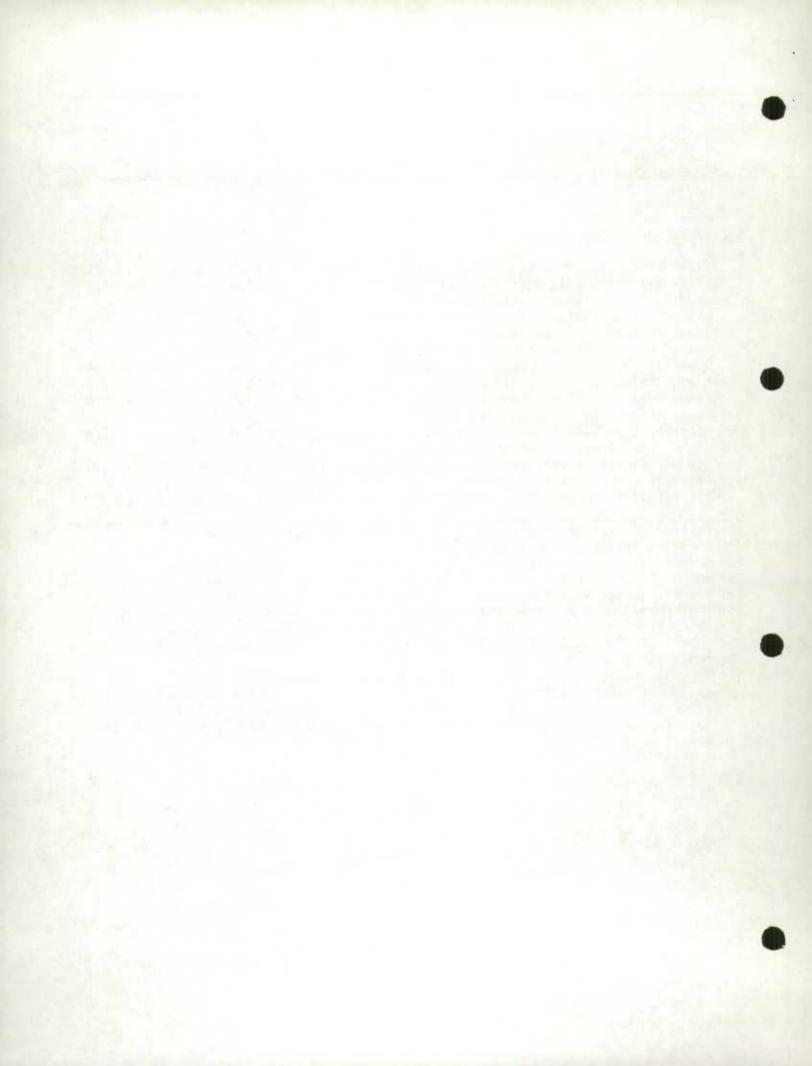
Price indexes of	electric u	utility	construction	1965 1964	1966 1965	1967 1966	1968 1967

Per cent change

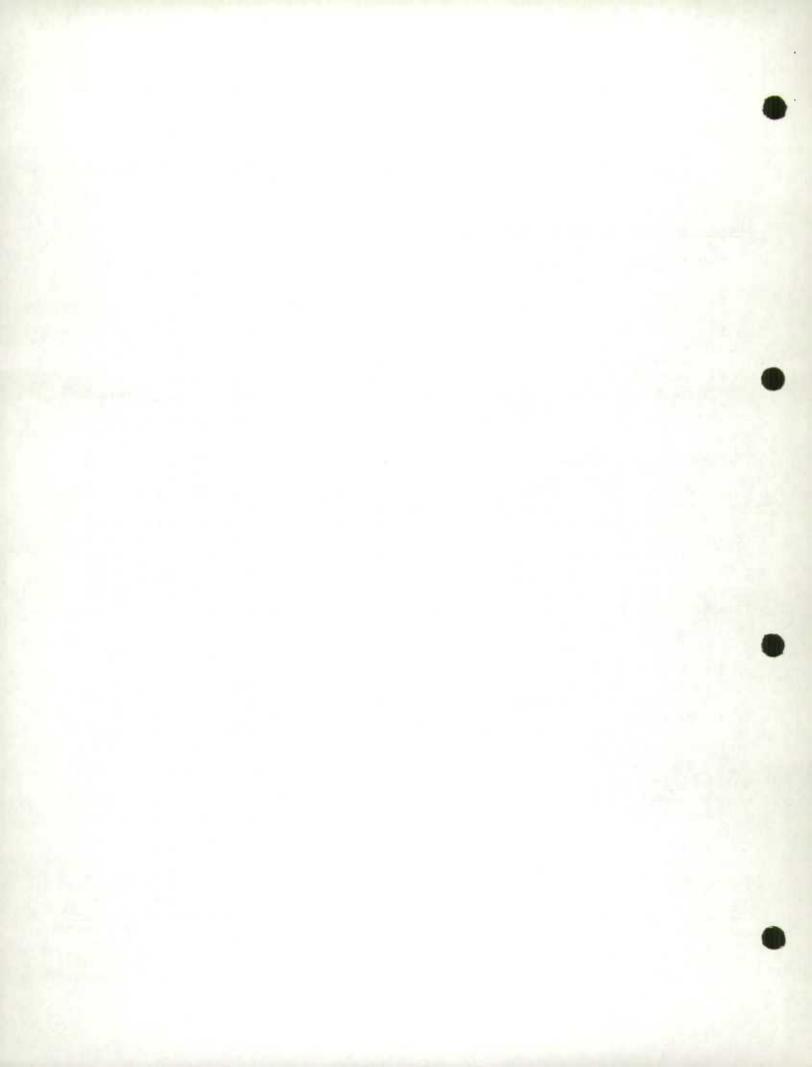
Related Economic Indicators*

Capital expenditures in Canada(1)		+ 17.3 + 21.6	+ 0.6 + 13.6	+ 4.1 + 2.6
proportion of capital expenditures in Canada Indexes of employment in construction(2)			8.6 - 7.0r	
Index of real domestic product for electric power(3)		+ 11.4 + 3.9	+ 8.8r + 8.4	
Average bond yield for 10 public utilities(5) Indexes of employment by industry for		+ 13.2	+ 8.6 ^r	
electrical industrial equipment(6) Index of real domestic product by manufactur-				
ers of electrical industrial equipment(7) Indexes of value of selected imported				
electrical equipment(8)	+ 33.5	+ 11.6	+ 25.2	- 17.5

- (1) Public and Private Investment in Canada, DBS Catalogue 61-205 Annual.
- (2) Canadian Statistical Review, DBS Catalogue 11-003, Monthly.
- (3) Indexes of Real Domestic Product, by Industry, DBS Catalogue 61-506.
- (4) Annual Electric Power Survey of Capability and Load, DBS Catalogue 57-204, Annual.
- (5) McLeod, Young, Weir and Company, 50 King Street West, Toronto.
- (6) Employment and Average Weekly Wages and Salaries, DBS Catalogue 72-002.
- (7) Table I of Indexes of Real Domestic Product by Industry, DBS Catalogue 61-506, Annual, and Table II of Index of Industrial Production, without seasonal adjustment, DBS Catalogue 61-005, Monthly.
- (8) Imports of Commodities, DBS Catalogue 65-007, Monthly.
- * In some instances 1968 data include estimates made by Prices Division staff relating to the concluding months of the year. Ratios published relating to earlier years have been revised to incorporate final figures published by the relevant divisions.
- r Revised figures.



Price indexes of electric utility construction	$\frac{1}{1}$	965		966 965		1967 1966		968 967
			Pe	r cent	cł	nange		
ecent price index percentage changes								
Distribution systems	+	2.4	+	4.9	+	4.4	_	0.1
Construction	+	4.3	+	5.4	+	5.8	+	0.6
Materials	+	4.6	+	6.2	+	1.9		4.5
Poles		12.9		8.0		4.1		4.9
Conductors		4.2		8.9		4.0		7.0
Labour	+	4.4		4.7		11.9		7.
Construction equipment	+	1.0	+	2.2	+	5.2	+	2.4
Distribution systems equipment	-	2.3	+	3.6	+	0.9	-	2.0
Transmission lines	+	5.6	+	4.1	+	5.1	+	2.
Materials	+	6.1		3.5r		2.5		0.4
Poles, western cedar		13.2		13.5	+	6.2		1.
Hardware		0.1		2.2 ^r		5.7		0.
Towers		2.3		0.0		4.9		0.
Our Huntana ACCD		7.0	1	1 5	- 1	2 2	-	0.:
Conductors, ACSR	+	7.9		1.5		3.3		4.
Insulators						5.4		
Labour		5.4		6.4		12.3		7.
Construction equipment	+	1.6	+	2.7	+	4.7	+	2.
Transformation and switching stations at								
generating plants				4.2				4.
Structures and improvements		10.0		5.6		4.7		1.
Materials		7.8		4.3	-	5.2		2.
Buswork and conductors	+	9.9	+	8.0	_	2.8	-	4.
In-place prices	+	17.1	+	10.0	-	3.3		0.
Earth excavation		16.2		11.6		3.5		0.
Crushed gravels		18.8		6.8		2.8		0.1
Labour		4.5		5.2		12.7	+	7.
							,	
Station equipment	+			3.6	-			8.
Power transformers		4.9		1.2	-			9.4
Switchgear and protective equipment	+	9.7	+	6.5		4.3		7.1
Power circuit breakers	+	2.7	+	4.7	-	8.3	-	9.4



The following commodity indexes are of interest:

Poles

As can be seen, distribution poles prices have been considerably weaker than prices for transmission poles. Declines in the distribution pole index are attributed to inventory over-supplies in certain sizes and to declining demand. The decline in transmission poles is attributed to lower demand.

Poles	1965 1964	1966 1965	1967 1966	1968 1967
Distribution	+ 12.9	+ 8.0	- 4.1	- 4.9
Transmission	+ 13.2	+ 13.5	+ 6.2	- 1.9

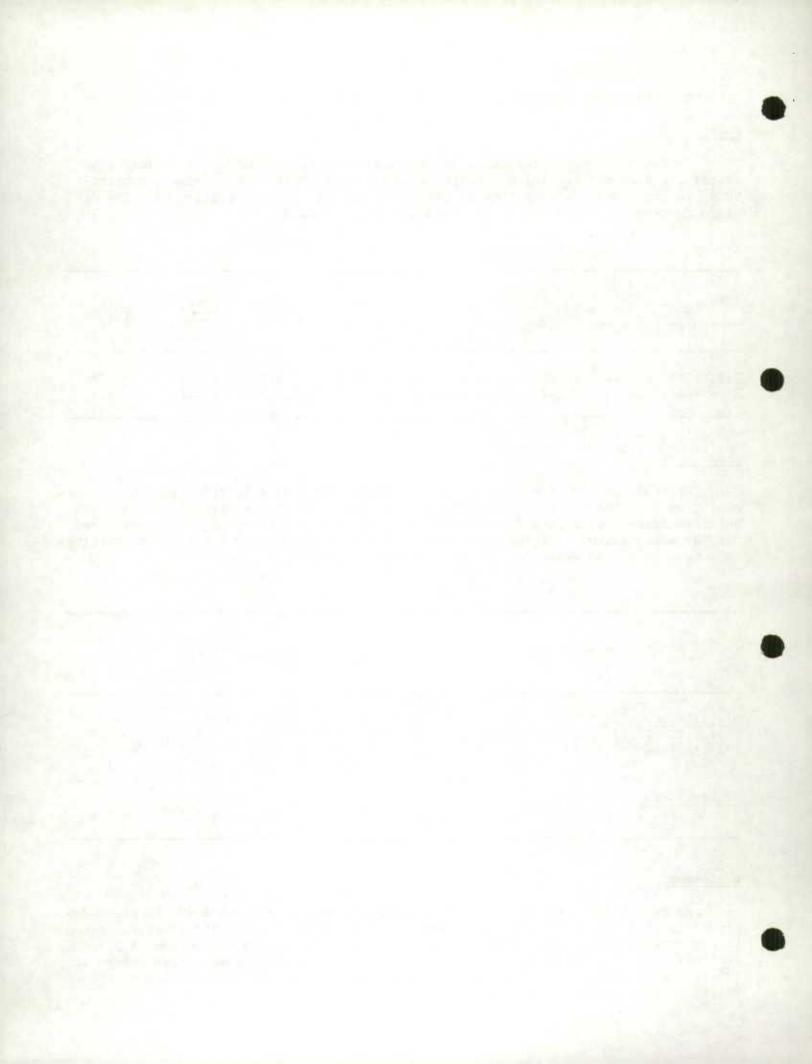
Conductors

Sheathed Copper conductor and ACSR have exhibited sharply different price movement from the sheathed aluminum distribution conductors. A variety of reasons were put forward to explain the differential price behaviour but the major reasons cited for the price movement of the four types of conductor shown below related to declines in demand at a time when the industry has excess capacity.

Conductors	1965 1966	1966 1965	1967 1966	1968 1967
Distribution				
Triplex	+ 2.3	+ 4.0	+ 2.4	- 9.8
Polyethylene insulated - Aluminum	+ 2.4	+ 3.9	+ 2.1	- 9.7
Copper	+ 8.9	+ 20.2	+ 7.5	- 1.6
Transmission				
ACSR	+ 7.9	+ 1.5	+ 3,3	+ 0.2

Equipment

As can be seen from the table below all elements of equipment showed price declines in 1968 except meters. Distribution transformer prices moved lower in response to a strengthening of competition in the domestic market. Station equipment price declines were attributed to such factors as declines in the volume of new orders and the volume of new orders going to off-share producers, as well as declines in the prices of some material inputs.



Equipment	1965 1964	1966 1965	1967 1966	1968 1967
Distribution systems equipment	- 2.3	+ 3.6	+ 0.9	- 2.0
Meters	0.0	0.0	+ 2.3	+ 1.0
Transformers	- 3.7	+ 6.1	0.0	- 4.0
Station equipment (at generating plants)	+ 5.7	+ 3.6	- 6.6	- 8.8
Power transformers	+ 4.9	+ 1.2	- 7.1	- 9.4
Circuit breakers	+ 2.7	+ 4.7	- 8.3	- 9.4
Switchgear and protective equipment	+ 9.7	+ 6.5	- 4.3	- 7.1

Wage rates

Wage rates continued to advance in 1968 but less sharply than shown in the previous year. In addition rates of increase in all trades and in all provinces were comparable, most increases being of the order of 7.5 per cent, as can be seen from the table following:

Wage rates	1966 1965	1967 1966	1968 1967	Pre- liminary
Distribution systems				
Linemen	+ 4.6	+ 13.1	+ 7.5	
Groundmen	+ 4.8	+ 10.2	+ 8.1	
Mechanics	+ 4.5	+ 12.5	+ 7.9	
Transmission lines				
Linemen	+ 5.7	+ 14.3	+ 7.6	
Groundmen	+ 7.0	+ 10.9	+ 7.4	
Mechanics	+ 5.3	+ 13.3	+ 7.7	
Transformation and switching stations				
Electricians	+ 4.5	+ 13.5	+ 7.2	
Labourers	+ 6.1	+ 11.1	+ 8.0	

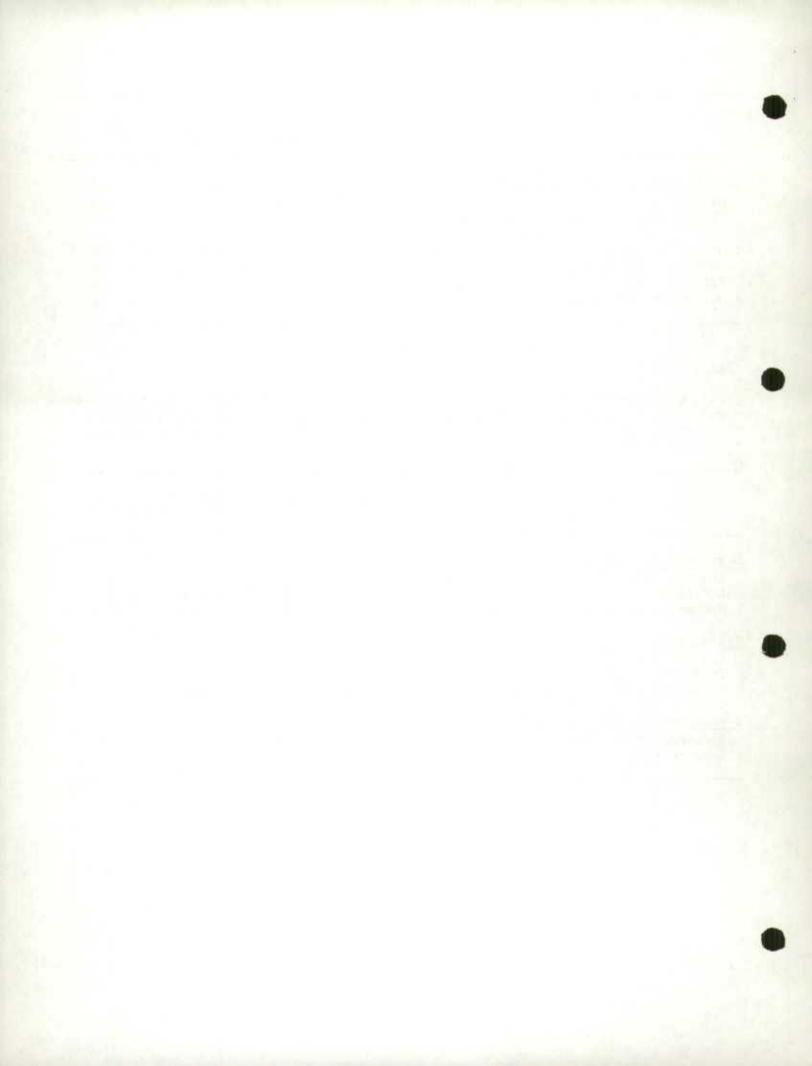


TABLE I. Price Indexes of Electric Utility Distribution Systems, Major Components and Items, Canada, Annually, 1956-67
(1961=100)

							Inde	exes						
Total, major components and items	1956	1957	1958	19 59	1960	1961	1962	1963	1964	1965	1966	Final 1967	Pre- limi- nary 1968	196
		-					-							
stribution systems	95.1	96.5	93.2	96.8	100.3	100.0	101.9	102.5	104.6	107.1	112.4	117.4	117.3	
Construction	92.7	91.9	93.5	96.3	98.5	100.0	102.5	105.2	107.8	112.4	118.5	125.4	126.2	
Materials(1)	103.8	100.4	98.7	100.6	100.3	100.0	101.8	103.9	105.2	110.0	116.8	119.0	113.6	
Poles	99.1	97.5	99.1	104.8	99.3	100.0	104.0	108.4	107.3	121.1	130.8	125.4(2)	119.3	
Eastern cedar	120.8	101.9	101.3	116.2	100.2	100.0	109.0	112.1	109.1	109.8	121.4	-	-	
Western cedar	97.7	97.2	99.0	104.1	99.2	100.0	103.6	108.1	107.2	121.8	131.4	-	-	
Crossarms	113.1	97.4	94.9	110.2	105.7	100.0	111.9	116.6	128.0	128. 2	129.9	133.2	138.3	
Hardware	96.5	97.4	99.5	99.7	100.0	100.0	101.3	103.5	103.5	102.0	101. 3 ^r	106.8	107.5	
Secondary racks	95.9	96.7	98.8	99.6	99.9	100.0	102.6	104.4	104.4	98.6	90.1°	94.4	96.4	
Other hardware	96.8	97.7	99.8	99.7	100.0	100.0	100.9	103.2	103.2	103.3	105.6°	111.6	111.8	
Conductors	107.9	103.4	99.1	98.1	100, 2	100.0	99.7	100.6	102.3	106.6	116.1	120.8	112.3	
Triplex Polyethylene insu-	102.9	105.5	102.3	97.8	100.0	100.0	98.1	97.4	97.2	99.4	103.4	105.9	95.5	
lated - Aluminum	102.9	105.5	102.3	97.8	100.0	100.0	98.1	97.4	97.3	99.6	103.5	105.7	95.4	
Copper	123.0	96.9	89.3	99.0	100.7	100.0	104.6	110.3	117.5	128.0	153.9	165.5		
Insulators	94.9	95.2	95.9	98.7	102.0	100.0	100.6	101.4	101.4	106.0	111.8	117.8	162.9	
Luminaires	96.1	97.1	97.0	99.2	100.1	100.0	101.2	102.7	103.0	98.5	95.2	95.7	122.7 90.2	
Labour	75.7	78.5	84.9	89.3	95.3	100.0	104.3	108.3	112.8	117.8	123.3	138.0	148.6	
Groundmen	75 .0	78.1	84.6	88.8	95.0	100.0	104.3	108.5	113.0	118.0	123.7	136.3	147.3	
Linemen	76.1	78.8	85.1	89.6	95.5	100.0	104.2	108.2	112.8	117.6	123.0	139.1	149.5	
Construction equipment	85, 2	90.1	93.8	96.2	98.9	100.0	99.4	100.0	101.3	102.2	104 6	100.0	110 5	
Equipment - Trucks	82.6	90.5	95.7	97.8	99.6	100.0	102.3	103.5	101.3	102.3	104.5	109.9	112.5	
Operating expenses	87.7	89.7	91.9	94.5	98.2	100,0	96.4	96.6	99.0	103.6	104.8	108.3	109.4	
Mechanics(3)	75.7	78.5	84.9	89.3	95.3	100.0	104.3	108.3	112.8	118.1	104. 1 123. 4	111.4	115.7	
Other Operating Expenses(4)	94.9	96.3	96.2	97.7	99.9	100.0	91.7	89.6	90.7	90.7	92.5	95.0	149.7 95.2	
Distribution systems equipment(1)	100.4	106.6	92.5	97.9	104.3	100.0	100.4	96.4	97.6	95.4	98.8	99.7	97.7	
Meters	89.4	96.7	98.3	99.1	100.0	100.0	100.0	99.1	98.6	98.6	98.6	100.9	101.9	
Transformers	107.3	112.9	88.9	97.1	107.1	100.0	100.6	94.7	96.9	93.3	99.0	99.0	95.0	
) Combined materials and distribution			-1											
	100 0		0.0											

systems equipment index 102.3 103.1 96.0 99.4 102.1 100.0 101.2 100.6 101.9 103.6 109.0 110.7 106.

(2) Price movement for the pole index is derived from price reports for western cedar only, from 1967 forward.

r Revised figures.

- 7

⁽³⁾ In 1965, Federal Department of Labour Fair Wage Rates were replaced by wage rates reported by a sample of elactric utilities and contractors. See also footnote 1, Table 4.

⁽⁴⁾ The component indexes of Other Operating Expenses are shown in Table 2.

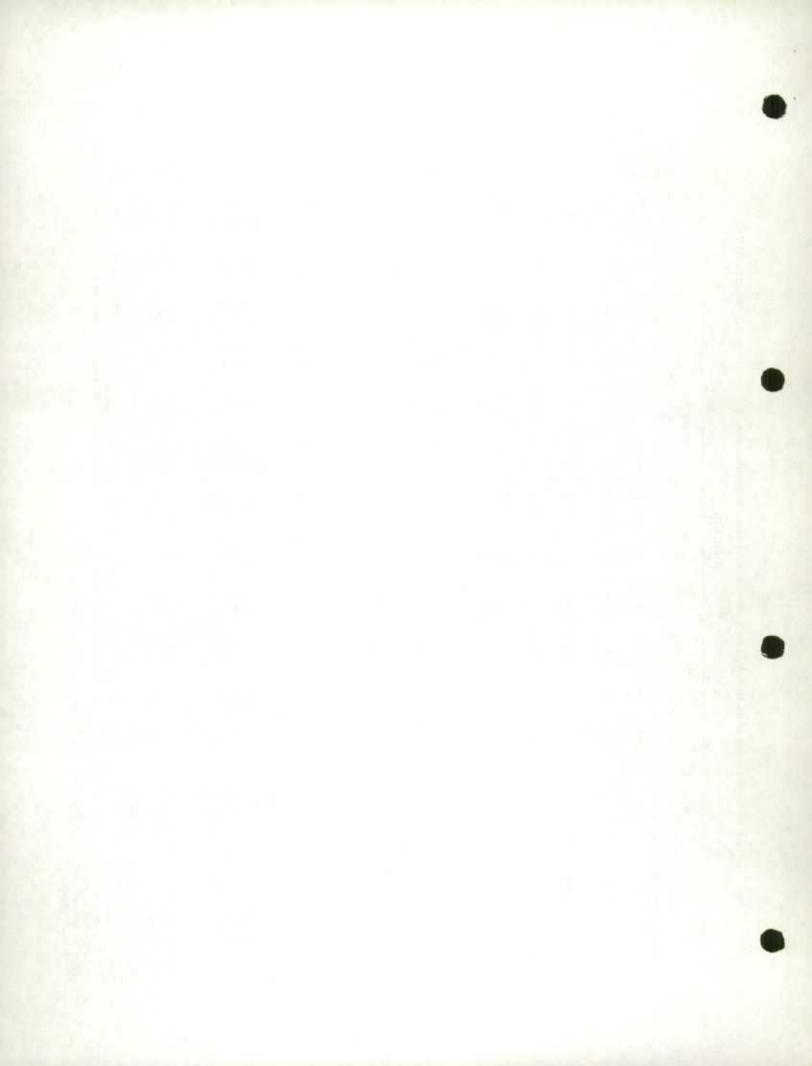


TABLE II. Price Indexes of Electric Utility Transmission lines, Major Components and Items, Lanada, Annually, 1956-61 (1961=100)

							Inde	exes						
Total, major components and items	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	Final 1967	Pre- limi- nary	1969
													1968	
ransmission lines	92.1	94.4	95.7	97.0	98.9	100.0	100.9	102.3	102.7	108.5	113.0	118.8	121.7	
Materials	98.5	100.3	99.8	100.0	100.3	100.0	99.9	100.5	99.6	105.7	109.4 ^r	112.1	112.5	
													212.3	
Poles, towers and fixtures	95.8	97.3	98.8	102.0	100.3	100.0	101.3	103.1	103.5	108.7	114.0 ^r	115.5	115.4	
Poles, western cedar	97.7 113.1	97.2 97.4	99.0	104.1	99.2	100.0	100.4	103.8	101.8	115.2	130.7	138.8	136.2	
Hardware	96.8	97.4	99.8	110.2 99.7	105.7	100.0	111.9	116.6 103.2	128.0	128.2 103.3	129.9 105.6 ^r	133.2	138.3	
Towers	90.8	97.1	99.0	99.8	100.0	100.0	100.0	100.0	100.0	102.3	102.3	97.3	97.7	
Conductors and insulators	101.2	103.5	100.9	97.9	100.3	100.0	98.5	97.9	95.5	102.6	104.7	108.5	109.5	
Conductors, ACSR	102.4	105.0	101.9	97.7	100.0	100.0	98.1	97.3	94.4	101.9	103.4	106.8	107.0	
Insulators	94.9	95.2	95.9	98.7	102.0	100.0	100.6	101.4	101.4	106.0	111.8	117.8	122.7	
Labour	75.2	78.3	84.5	88.7	94.9	100.0	104.6	108.6	112.8	118.9	126.5	142.0	150 2	
	13.2	70.3	04. 5	00.7	24.2	100.0	104.0	100.0	112.0	110.9	120.5	142.0	152.7	
Groundmen	74.7	78.0	84.2	88.3	94.6	100.0	104.7	108.8	113.0	119.2	127.5	141.4	151.9	
Linemen	76.0	78.7	85.0	89.3	95.4	100.0	104.5	108.2	112.5	118.4	125.1	143.0	153.9	
Construction equipment	84.2	88.2	91.5	94.3	97.5	100.0	99.2	99.4	101.4	103.0	105.8	110.8	113.8	
Equipment	78.2	84.3	89.9	93.2	96.1	100.0	104.1	104.9	107.2	109.0	111.6	115.7	118.8	
Bulldomers	76.9	82.6	87.9	92.0	95.3	100.0	104.2	106.2	111.0	112.3	112.5	116.3	119.7	
Compressors	75.1	79.9	86.0	89.8	93.5	100.0	105.6	105.0	106.8	111.2	117.6	122.3	127.2	
Trucks	82.6	90.5	95.7	97.8	99.6	100.0	102.3	103.5	103.7	103.6	104.8	108.3	109.4	
Operating expenses	90.2	92.1 ^r	93.1	95.4	98.8	100.0	94.3	93.8	95.7	97.0	100.0	105.9	108.9	
Mechanics(1)	75.2	78.3 ^T	84.5	88.7	94.9	100.0	104.6	108.6	112.8	118.1	124.4	141.0	151.8	
Other Operating Expenses	95.2	96.7	96.0	97.7	100.1	100.0	90.8	88.9	90.0	89.9	91.8	94.2	94.5	
Diesel fuel	99.1	103.2	97.9	99.6	100.0	100.0	101.7	103.1	101.3	98.1	97.7	98.6	102.7	
Gasoline	96.5	99.6	99.8	99.9	99.5	100.0	98.3	90.7	91.5	88.4	88.8	89.7	90.0	
Lubricating oils	91.0	94.1	94.5 92.8	96.0 96.2	98.4 101.7	100.0	100.0 79.1	99.8 79.6	99.2 81.9	99.5 84.6	102.9 88.7	107.6 92.1	90.9	
Tubes	93.1	92.5	89.7	88.9	88.9	100.0	100.8	100.8	100.8	102.5	99.7	101.3	103.7	
Repair parts	93.4	95.3	96.6	97.3	98.7	100.0	101.0	103.7	103.5	103.9	104.4	108.0	110.0	

⁽¹⁾ In 1965, Federal Department of Labour Fair Wage Rates were replaced by wage rates reported by a sample of electric utilities and contractors. See also footnote Table 5.
T Revised figures.

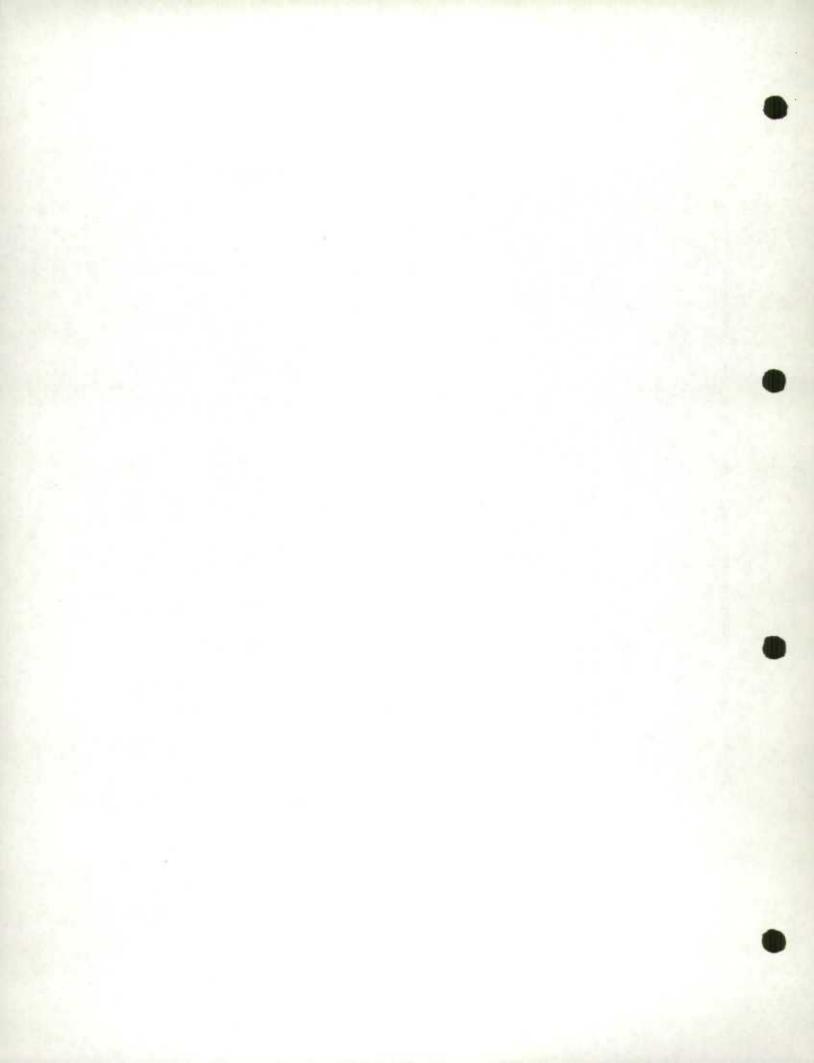


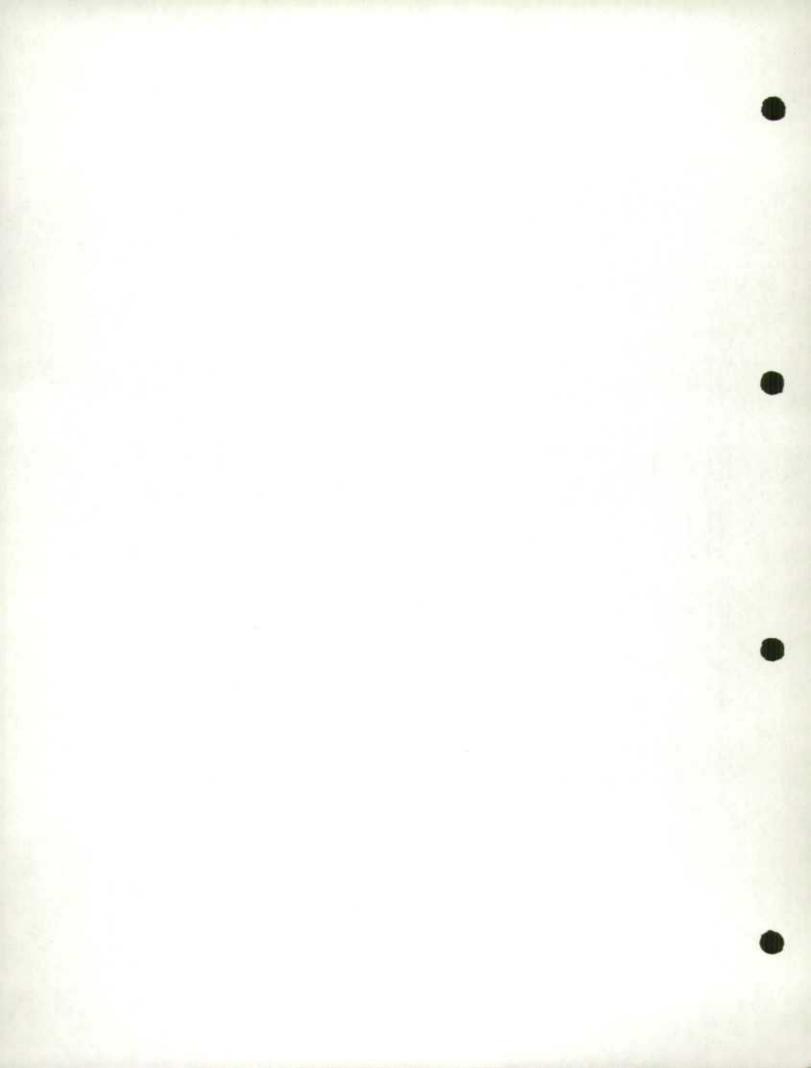
TABLE III. Price Indexes of Electric Utility Transformation and Switching Stations, Major Components and Items, Canada, Annually, 1956-67

(1961=100)

							In	dexes						
Total, major components and items	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	Pinal 1967	Pre- limi- nary 1968	1969
Transformation and switching														
stations	115.2	118.1	109.0	113.5	109.8	100.0	104.5	107.2	111.7	118.7	123.7	122.5	117.3	
Structures and improvements	110.1	105.6	101.3	102.6°	103.3	100.0	102.6	109.0	113,1	124.4	131.4	125.2	122.9	
Materials	100.0	99.8	99.0	99.6	100.5	100.0	100.4	103.5	109.1	117.6	122.6	116.2	113.3	
Ready-mix concrete(1)	99.8	100.0	100.0	100.0	100.0	100.0	100.3	104.2	107.3	112.0	118.3	121.7	123.0	
Steel structures	92.3	97.4	99.0	99.8	100.6	100.0	100.1	102.4	107.1	114.7	115.7	104.2	101.7	
Wooden structures	102.2	97.1	97.1	103.9	102.5	100.0	104.2	108.9	116.0	125.0	129.8	125.2	123.2	
Buswork and conductors	109.6	103.5	99.0	98, 3	100.2	100.0	100.0	103.5	110.8	121.8	131.6	127.9	122.7	
In-place prices	149.9	128.5	110.6	114.3	114.1	100.0	111.2	130.4	129.0	151.0	166.1	160.6	160.6	
To all	3 (3)	100 /	112 (116 7	101.0	100.0	110 0	145.0	120 1	1/1 7	100 /	126.0	17/ 0	
Earth excavation Crushed gravels		132.4 122.1	113.6 105.6	116.7	121.9 101.4	100.0	118.8 98.8	145.0 106.7	139.1	161.7 133.7	180.4	174.0 138.8	174.0 138.8	
Labour (2)	74.3	77.6	82.5	88,6	94.7	100.0	104.3	107.6	111.5	116.5	122.5	138.0	148.3	
Common labourer	71.2	75.4	81.3	87.3	93.9	100.0	105.6	109.3	114.2	119.2	126.5	140.6	151.8	
Electrician	76.0	78.8	83.1	89.3	95.1	100.0	103.6	106.8	110.0	115.1	120.3	136.6	146.4	
Station equipment	127.9	132.6	118.4	123.2	115.7	100.0	105.1	106.7	111.5	117.9	122.1	117.4	107.2	
	1/0 5	7.57.5	120 (106.0	101 5	100 0	100 2	105 0	100 6	115 0	116 6	116 1	106.2	
Power transformers Circuit breakers Switchgear and protec-	142.5 95.2	154.3 97.3	130.6 96.7	136.3	121.5 104.4	100.0	108.3	105.8	109.8	115.2 115.8	116.6	115.1	104.3	
tive equipment	128 9	122.9	114.4	117.9	114.6	100.0	102.7	108.4	113.3	124.3	132.4	126.7	117.7	

⁽¹⁾ Additional prices were incorporated into the index beginning in 1962. The present sample is sufficiently extensive that regional indexes are available monthly from mid 1967 onward.

⁽²⁾ See footnote(1) Table 6.



FABLE IV. Wage Rate Indexes for Distribution Systems Construction, Canada and Nine Provinces, 1956-67(1)
(1961=100)

							1	ndexes						
	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	Final 1967	Pre- limi- nary 1968	1969
Linemen														
Newfoundland	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	110.7	115.5	118.9	130.3	
Nova Scotia	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	113.6	119.3	126.4	142.6	
New Brunswick	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	112.2	117.4	129.4	140.2	
Quebec	73.9	75.0	81.8	86.9	93.7	100.0	109.7	113.6	118.7	123.5	128.7	160,6	168.7	
Ontario	78.2	81.2	83.9	85.6	94.6	100.0	103.4	106.7	110.4	114.9	119.8	130.1	140.7	
Manitoba	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	113,9	117.3	126.8	137.6	
Saskatchewan	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	116.8	122.7	133.3	141.2	
Alberta	77.4	82.2	86.3	91.1	94.5	100.0	102.4	104,1	108.2	112.6	122.6	130.4	144.4	
British Columbia	74.2	78.2	87.7	95.4	98.2	100.0	101.8	107.4	112.3	119.2	126.5	138.4	151.7	
Canada	76.1	78.8	85.1	89.6	95.5	100.0	104.2	108.2	112.8	117.6	123.0	139.1	149.5	
Groundmen														
Newfoundland	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	117.0	121.4	125.8	139.0	
Nova Scotia	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	120.9	125.6	133.6	149.6	
New Brunswick	81.0	86.4	90,5	92.5	96.6	100.0	106.1	110.9	115.6	120.0	126.7	135.6	146.9	
Quebec	73.9	75.0	81.8	86.9	93.7	100.0	109.7	113.6	118.7	124.0	129.8	146.9	154.5	
Ontario	74.0	78.2	84.4	86.0	94.8	100.0	102.9	106.2	109.4	114.4	119.8	130.8	143.5	
Manitoba	77.6	80.8	88.5	94.2	97.4	100,0	100.0	105,1	110,9	116.5	120.7	136.1	149.3	
Saskatchewan	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	113.9	118.7	124.7	131.9	
Alberta	71.8	73.9	79.8	85.6	91.0	100.0	103.2	107.4	109.0	113.5	123.0	130.5	144.4	
British Columbia	73,1	78.1	83.6	89,5	95.0	100.0	102.3	107.3	111.9	118.4	125.7	137.8	150.8	
Canada	75.0	78.1	84.6	88.8	95.0	100.0	104.3	108.5	113.0	118.0	123.7	136.3	147.3	

⁽¹⁾ For the period 1956 to 1964 wage rate indexes were derived for nine major cities from data supplied by the Labour Standards 8ranch of the Department of Labour. In January 1965, Union wage rate data for basic wage rates reported by major utilities and some contractors were incorporated into the index. The sample selected provides an estimate of wage rate change for each province and represents urban own-account and contract electric utility construction.

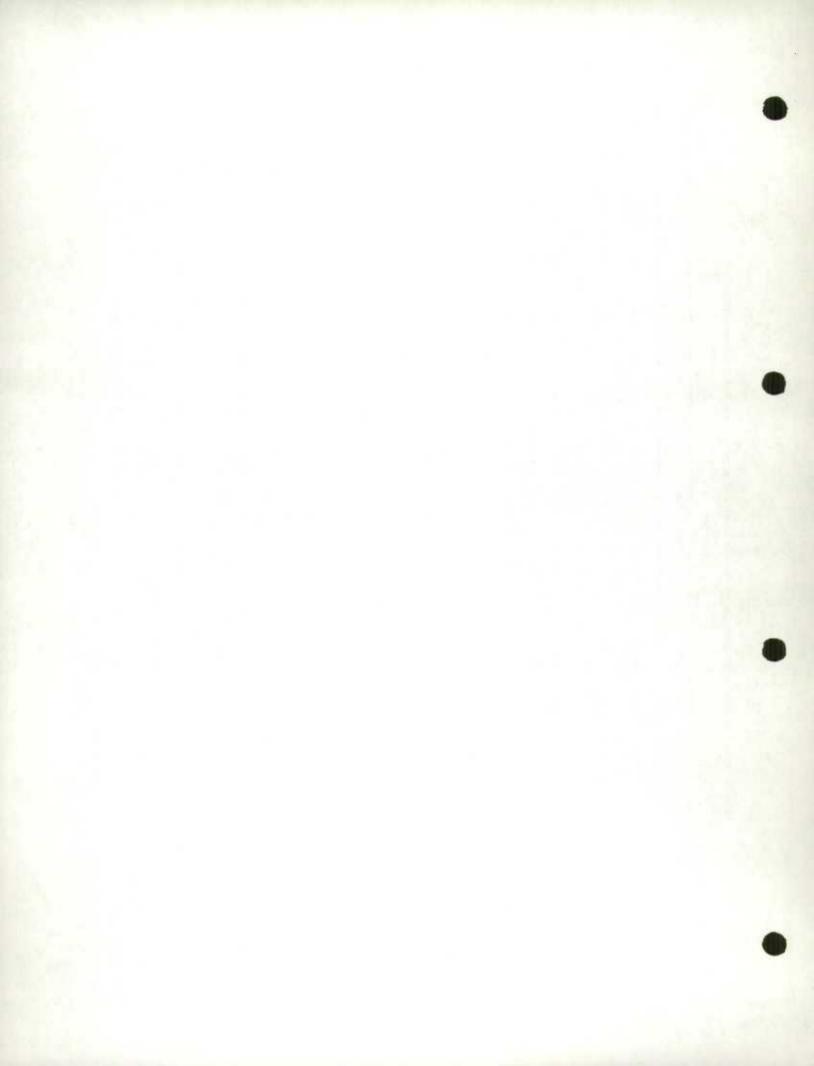


TABLE V. Wage Rate Indexes for Transmission Lines Construction, Canada and Nine Provinces, 1956-67(1)
(1961=100)

							Inde	xes						
	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	Final 1967	Pre- limi- nary 1968	1969
inemen														
Newfoundland	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	110.7	115.5	118.9	128.2	
Nova Scotia	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	113.6	119.3	126.4	142.6	
New Brunswick	74.2	76.6	87.9	90.6	96.9	100.0	104.3	105.5	107.4	112.2	117.4	129.4	140.2	
Quebec	73.9	75.0	81.8	86.9	93.7	100.0	109.7	113.6	118.7	126.8	133.9	171.0	179.6	
Ontario	78.2	81.2	83.9	85.6	94.6	100.0	103.4	106.7	110.4	114.5	120.2	130.0	140.8	
Manitoba	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	113.9	117.3	126.8	136.6	
Saskatchewan	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	116.8	122.7	133.3	141.2	
Alberta	77.4	82.2	86.3	91.1	94.5	100.0	102.4	104.1	108.2	112.6	122.6	130.4	144.4	
British Columbia	74.2	78.2	87.7	95.4	98.2	100.0	101.8	107.4	112.3	119.4	126.9	141.1	156.3	
anada	76.0	78.7	85.0	89.3	95.4	100.0	104.5	108.2	112.5	118.4	125.1	143.0	153.9	
roundmen														
Newfoundland	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	117.0	121.4	125.8	137.4	
Nova Scotia	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	120.9	125.6	133.6	149.6	
New Brunswick	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	120.0	126.7	135.6	146.9	
Quebec	73.9	75.0	81.8	86.9	93.7	100.0	109.7	113.6	118.7	127.5	136.4	157.8	166.0	
Ontario	74.0	78.2	84.4	86.0	94.8	100.0	102.9	106.2	109.4	115.6	122.9	132.2	142.7	
Manitoba	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	116.5	120.7	136.1	148.8	
Saskatchewan	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	113.9	118.7	124.7	131.9	
Alberta	71.8	73.9	79.8	85.6	91.0	100.0	103.2	107.4	109.0	113,5	123.0	130.5	144.4	
British Columbia	73.1	78.1	83.6	89.5	95.0	100.0	102.3	107.3	111.9	117.4	130.7	152.8	166.1	
anada	74.7	78.0	84.2	88.3	94.6	100.0	104.7	108.8	113.0	119,2	127.5	141.4	151.9	

⁽¹⁾ For the period 1956 to 1964, wage rate indexes were derived for nine major cities from data supplied by the Labour Standards Branch of the Department of Labour. In January 1965, union wage rate data for basic wage rates reported by major utilities and some contractors were incorporated in the index. The sample selected provides an estimate of wage rate change for each province and represents urban own-account and contract electric utility construction.

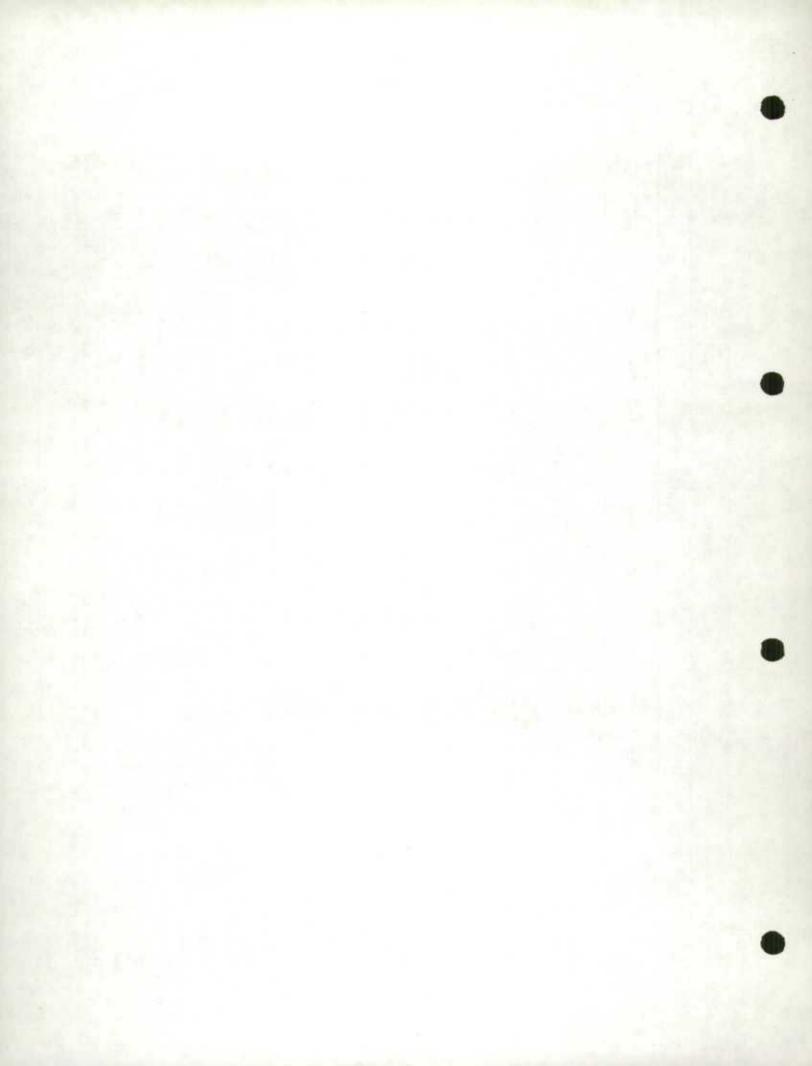


TABLE VI. Wage Rate Indexes for Transformation and Switching Stations Construction(1)

Canada and Nine Provinces, 1956-67,

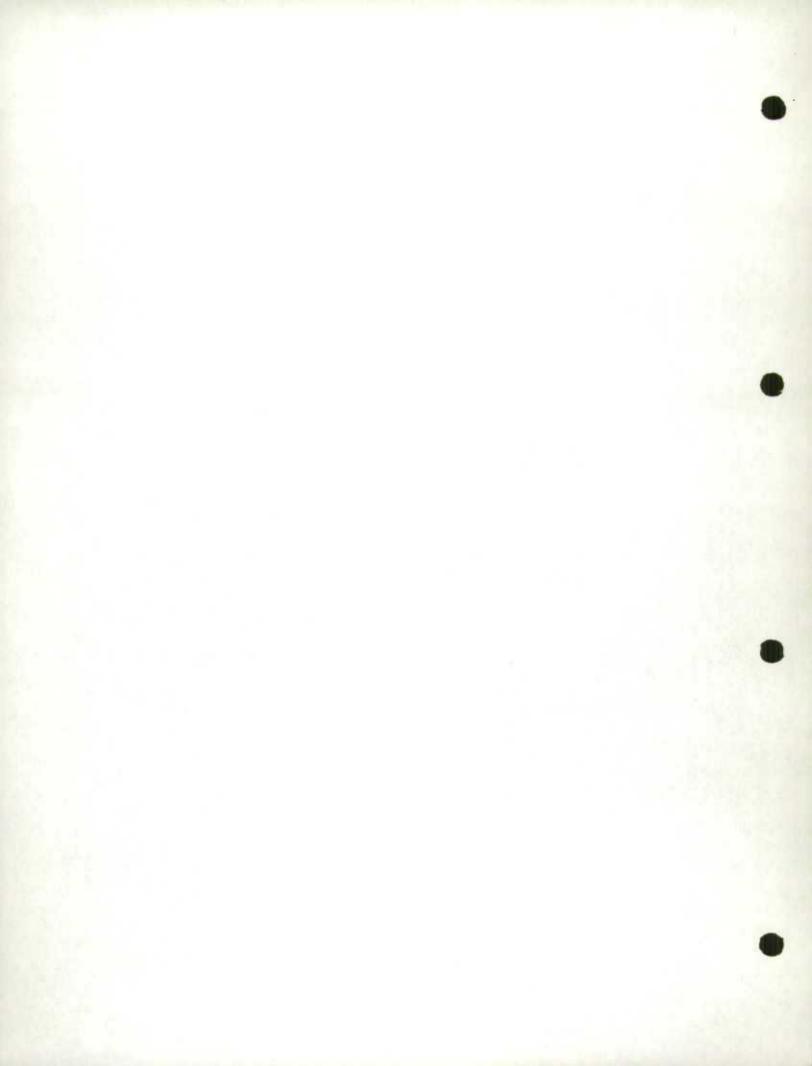
(1961=100)

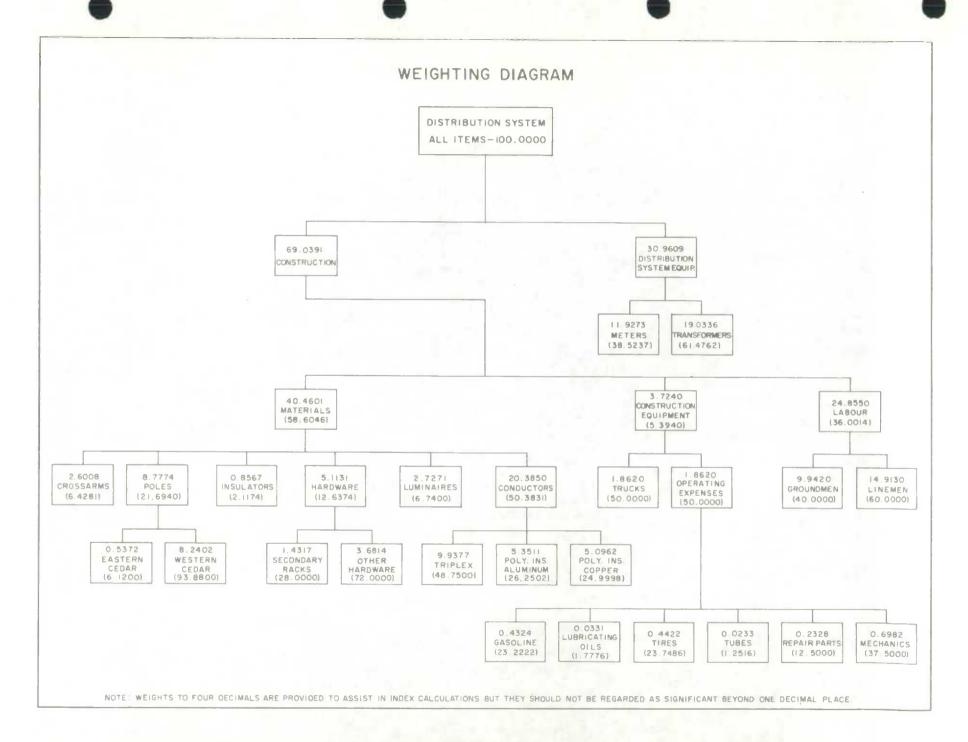
	Indexes												
	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	Final 1967	Pre- limi- 196 nary 1968
Common labourer(2)													
lova Scotia	81.0	86.4	90.5	92.5	96.6	100.0	106.1	110.9	115.6	126.7	135.1	146.2	161.9
ew Brunswick	82.9	91.0	94.6	94.6	96.4	100.0	103.6	103.6	106.3	111.1	117.3	125.5	134.4
ruebec	73.9	75.0	81.8	86.9	93.7	100.0	109.7	113.6	118.7	125.5	132.3	148.3	155.7
ntario	66.8	72.8	78.2	85.1	93.1	100.0	105.0	108.6	114.6	119.5	125.5	138.2	152.0
anitoba	67.3	74.5	80.0	89.7	95.2	100.0	100.0	100.0	100.0	104.4	108.1	116.9	126.5
askatchewan	77.6	80.8	88.5	94.2	97.4	100.0	100.0	105.1	110.9	114.1	117.8	124.1	131.7
lberta	71.8	73.9	79.8	85.6	91.0	100.0	103.2	107.4	109.0	113.1	123.4	129.0	137.3
ritish Columbia	73.1	78.1	83.6	89.5	95.0	100.0	102.3	107.3	111.9	111.9	128.2	153.0	169.6
anada	71.2	75.4	81.3	87.3	93.9	100.0	105.6	109.3	114.2	119.2	126.5	140.6	151.8
Electrician(2)													
ova Scotia	78.3	81.7	85.2	88.3	92.6	100.0	102.2	104.3	108.7	114.4	119.1	126.7	142.2
ew Brunswick	79.0	82.0	86.0	89.5	96.0	100.0	100.0	106,5	110.0	122.0	129.8	143.4	153.3
uebec	80.0	80.0	83.2	90.0	95.2	100.0	106.0	108.8	112.0	117.4	122.1	151.4	159.0
ntario	71.6	75.6	79.5	85.7	93.5	100.0	102.5	105.3	108.1	112.2	116.7	127.0	137.8
anitoba	73.6	80.4	85.0	91.1	96.8	100.0	101.4	103.5	106.1	111.0	115.9	128.0	139.4
askatchewan	88.0	89.3	92.7	96.6	98.7	100.0	106.8	111.1	114.5	117.7	122.2	133.6	141.7
lberta	77.4	82.2	86.3	91.1	94.5	100.0	102.4	104.1	108.2	112.9	122.9	130.8	141.6
ritish Columbia	74.2	78.2	87.7	95.4	98.2	100.0	101.8	107.4	112.3	119.6	126.9	136.6	146.9
anada	76.0	78.8	83.1	89.3	95.1	100.0	103.6	106.8	110.0	115.1	120.3	136.6	146.4

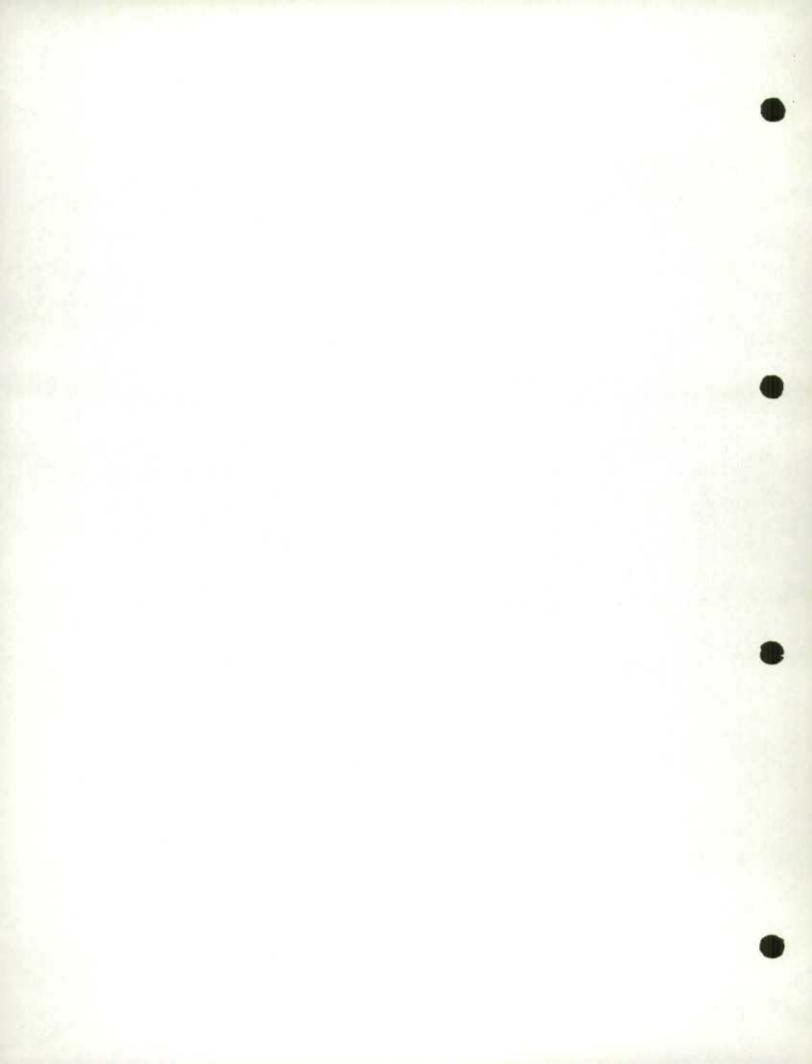
⁽¹⁾ For the period 1956 to 1964, wage rate indexes were derived for eight major cities from data supplied by the Labour Standards Branch of the Department of Labour. In January 1965, union wage rate data for the basic wage rates reported by major utilities and some contractors were incorporated in the index. The sample selected provides an estimate of wage rate change for each province - and represents urban own-account and contract electric utility construction.

Wage rate data for Newfoundland have been collected and are available on request.

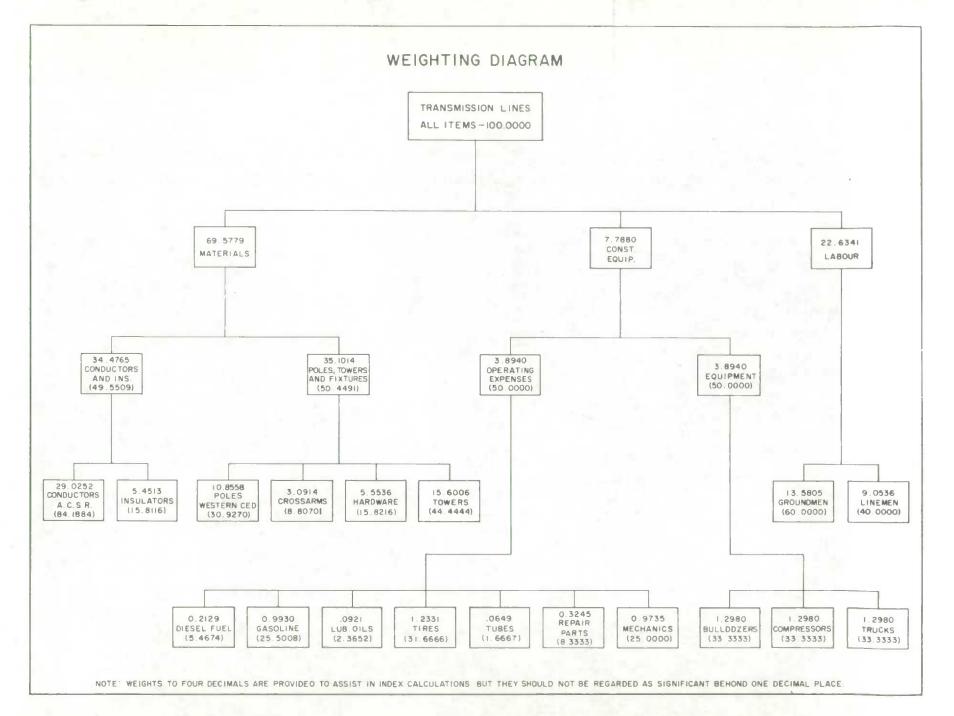
(2) Expenditures for Newfoundland during the base-weight period were small and for this reason wage rates for Newfoundland are not included in the published indexes. Rates have been collected from Newfoundland utilities since 1964 and indexes are available upon request.

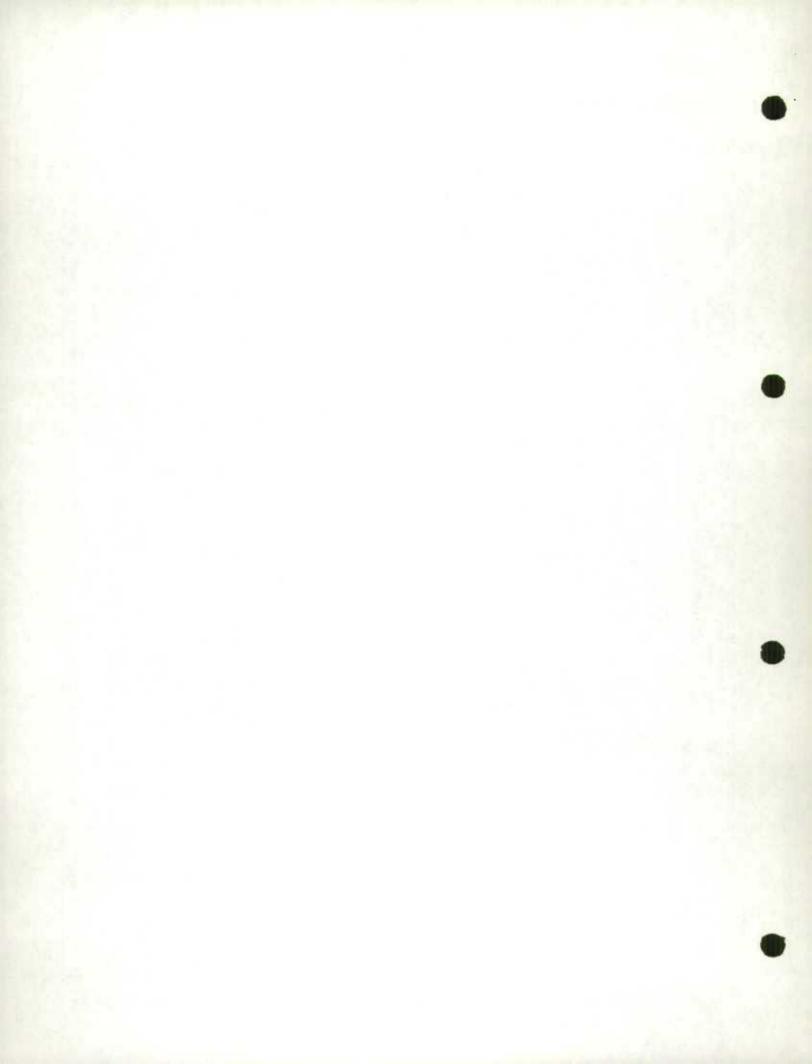


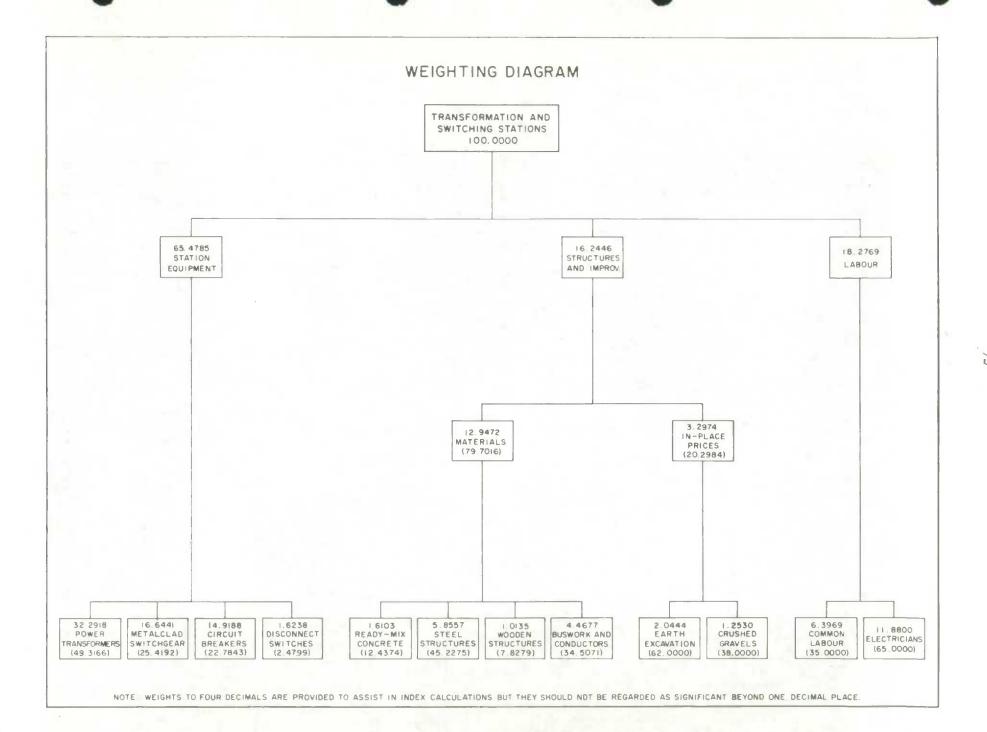












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