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## ABSTRACT

This document details a semiautomated PPB system developed in an ESEA Title III project, Intermediate Unit Planning Study, for use in Pennsylvania (see EA 002 750). Two semiautomated versions were developed, both dependent for calculation on the use of electronic data processing equipment. This is a documentation manual for the first of these versions, the batch-processed version. Testing of the batch-processed version for both school districts and intermediate units was completed in April 1969. A report on the development and testing of the second version, the on-line version, will be completed in May 1970. This manual, for use by the school districts, includes a sample school district printout, a suggested work schedule, and program documentation for the system analyst. The manual of the batch-processed version for the intermediate units is EA 002 752. Other related documents are EA 002 751 and EA 002 753.

(DE)

**EDUCATION-PLANNING-PROGRAMMING-BUDGETING SYSTEM**

**DOCUMENTATION MANUAL FOR SCHOOL DISTRICTS**

**VERSION II, MODEL 1**

**May, 1969**

**An Intermediate Unit Planning Study  
conducted by:**

**The Public Schools of Bucks, Cameron, Elk,  
McKean, Montgomery, and Potter Counties of  
the Commonwealth of Pennsylvania**

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**U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE  
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This manual is based on extensive testing with school districts in Bucks, Cameron, and McKean Counties, including the following: Central Bucks, Cameron County, Morrisville, Pennsbury, Port Allegany, and Smethport.

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## FOREWORD

Two distinct types of Education-Planning-Programming-Budgeting System (EPPBS) have been developed in the Intermediate Unit Planning Study for use by intermediate units and school districts in the Commonwealth of Pennsylvania. The first type is referred to as the manual version, i.e., the Education-Planning-Programming-Budgeting Procedure can be completely calculated manually with the use of a calculator. The second type, which is documented in this manual, is referred to as a semi-automated version, i.e., a version dependent for its calculation on the use of electronic data processing equipment.

The manual version passed through one revision following its introduction into the field last fall. The first manual version (EPPBS - Version I, Model 1) was tested with Bucks and McKean County Offices and Cameron County, Central Bucks, Morrisville, Pennsbury, Port Allegany, and Smethport Area School Districts from November 1968 through February 1969. The revision of this version is referred to as EPPBS - Version I, Model 2. No further development of the manual version is contemplated in the study.

There are two semi-automated versions - batch-processing and on-line. The batch-processed version is known as EPPBS - Version II, Model 1. The on-line version is known as EPPBS - Version III, Model 1. The school district's batch-processed version was tested from December 1968 through February 1969. The intermediate unit's batch-processed version was completed and tested by the end of April 1969. Design of the on-line-version will continue into December 1969. Initial testing of this version should be completed by March 1970. A technical report on the development and testing of the on-line version will be completed by the end of May 1970.

The manual version is an excellent training device and, of course, can be used by intermediate units and school districts in Pennsylvania that do not have access to or do not wish to use electronic data processing equipment. However, once a staff has received training in the use of the Education-Planning-Programming-Budgeting System we strongly recommend that the batch process-version be used for all calculations. This version will save upwards of two man weeks of computational effort.

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**LIST OF COMPUTER PRINT-OUT SHEETS AND  
RELATED FIGURES**

**Sample School District Print-out Sheets**

**Pp. 2,3,5,6,7,8,9,11,  
12,17,18,20,21,22,  
23,24,26,27,28,29,  
30,31,32,33,34,35,  
37,38,39,41,43,44,  
46,48,50,51,52,53,  
54,55,57,59,60**

**School District Input Data Cards**

**Pp. 63-80**

**Computer Program Listing**

**Pp. 154-184**

**Permanent Data Cards**

**Pp. 197-198**

## SECTION I

### DOCUMENTATION FOR THE PROFESSIONAL EDUCATOR

#### Sample School District Print-out.

The sample school district print-out illustrated and discussed in this section is based on actual data from one of the pilot school districts that participated in the field testing of the Education-Planning-Programming-Budgeting System during the 1968-1969 school year.

#### Page 1 - Enrollment Forecast

The current year (CY) to year five (Y5) enrollment for each of the six enrollment types is entered. It is assumed that the enrollment types are non-overlapping, i.e., no Vocational-Technical pupils are contained in the Grades 7-12 enrollment.

Total Enrollment is the sum over the six enrollment types (Kindergarten, Grades 1-6, Grades 7-12, Vocational-Technical, Special Education 1-6, and Special Education 7-12). Average Daily Membership is the result of multiplying the Attendance Percent times the sum of all six enrollment types, except Kindergarten, which is weighted at .5 if it is single session. Weighted Enrollment-Staff and Weighted Enrollment-Finance are the result of taking the weighted sum over the six enrollment types using the weights shown. If Kindergarten was double-session, the staff and finance weights for Kindergarten pupils would be 1.0 instead of .5 for single session. If the Vocational-Technical Program is conducted within the school district, the Vocational-Technical pupil weights would be the same as Grades 7-12. If the Vocational-Technical Program is conducted outside the school district, the pupil weights are as shown.

The Weighted Enrollment-Instructional Subsidy is the weighted sum of the six enrollment types using the weights shown. The Weighted Average Daily Membership is the result of multiplying the Attendance Percent times the Weighted Enrollment-Instructional Subsidy.

PRINT-OUT FROM VERSION II - MODEL I OF

THE EDUCATION PLANNING-PROGRAMMING-BUDGETING SYSTEM

-2-

COURTESY OF

GOVERNMENT STUDIES CENTER  
FELS INSTITUTE OF LOCAL AND STATE GOVERNMENT  
UNIVERSITY OF PENNSYLVANIA  
AND  
MANAGEMENT SCIENCE CENTER  
WHARTON SCHOOL OF FINANCE AND COMMERCE  
UNIVERSITY OF PENNSYLVANIA

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## ENROLLMENT FORECAST

	CV	Y1	Y2	Y3	Y4	Y5
KINDERGARTEN	1123.00	1273.00	1300.00	1305.00	1330.00	1347.00
GRADES 1-6	6036.00	6465.00	6646.00	6823.00	6999.00	7178.00
GRADES 7-12	5725.00	6033.00	6350.00	6693.00	7035.00	7374.00
VOCATIONAL-TECHNICAL	300.00	316.00	333.00	351.00	369.00	387.00
SPECIAL ED. 1-6	91.00	97.00	101.00	105.00	109.00	113.00
SPECIAL ED. 7-12	66.00	70.00	73.00	76.00	79.00	82.00
TOTAL ENROLLMENT	13341.00	14250.00	14803.00	15353.00	15921.00	16481.00
AVERAGE DAILY MEMBERSHIP	12651.70	13484.29	14011.47	14553.49	15103.44	15645.42
WSTD. ENROLLMENT-STAFF	13223.59	14083.59	14645.44	15219.44	15801.34	16378.94
WSTD. ENROLLMENT-FINANCE	14114.75	15027.75	15633.87	16261.12	16896.12	17526.37
WT. ENRLMT.-INST. STAFF	14972.25	15931.33	16585.15	17263.70	17949.87	18630.97
WT. AVDCE. DAILY MPRSHD.	14822.52	15772.02	16419.30	17091.05	17770.37	18444.66

## SUBSIDIARY DATA

ATTENDANCE PERCENT	29.00	STAFF WEIGHT	FINANCE WEIGHT	SURSIDY WEIGHT
KINDERGARTEN	0.500	0.500	0.500	0.500
GRADES 1-6	1.000	1.000	1.000	1.000
GRADES 7-12	1.100	1.250	1.300	1.300
VOCATIONAL-TECHNICAL	0.550	0.625	1.360	1.360
SPECIAL ED. 1-6	1.000	1.000	1.000	1.000
SPECIAL ED. 7-12	1.100	1.250	1.360	1.360

## Page 2 - Base Case Non-Salary Costs Held Constant

The non-salary costs to be held constant in the Base Case Projection are entered.

## Page 3 - Base Case Program Costs

The current year (CY) salary, CY non-salary, and CY-Y5 capital outlay costs by program are entered. CY-Y5 debt service is also entered. The year one (Y1) to year five (Y5) salary and non-salary costs are obtained through inflation on the CY costs, except where part of the non-salary cost is to be held constant. Separate inflation rates are used for salary and non-salary costs.

Inflating the total salary cost assumes that manpower is held constant over time and the salary per man is inflated. Inflating the total non-salary cost assumes that enrollment is held constant over time and the non-salary cost per pupil is inflated.

## Page 4 - Base Case Manpower

CY manpower is entered. For the Base Case, manpower is held constant over time. Hiring takes place only because of turnover. The turnover rate for teachers is shown on page 5 as Professional Staff Turnover, in percent.



NON-SALARY COSTS HELD CONSTANT

PUPIL TRANSPORTATION 6500.00

FACILITIES 34000.00

FIXED CHARGES 54247.00

## PROGRAM COSTS

		CY	Y1	Y2	Y3	Y4	Y5
POLICY AND EXECUTIVE	S	33170.00	35491.89	37975.28	40634.59	43478.97	46522.48
	NS	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	33170.00	35491.89	37975.28	40634.59	43478.97	46522.48
COMPREHENSIVE PLANNING	S	43360.00	46395.18	49642.75	53117.75	56835.94	60814.43
	NS	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	43360.00	46395.18	49642.75	53117.75	56835.94	60814.43
INFORMATION AND LIAISON	S	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
	NS	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
COMMUNITY SERVICES	S	55583.00	59473.79	63636.89	68091.37	72857.75	77957.75
	NS	11920.00	12277.59	12645.91	13025.28	13416.02	13818.50
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	67503.00	71751.37	76282.75	81116.62	86273.75	91776.25
COORDINATE SUPPORT SERVICES	S	68080.00	72845.56	77944.62	83400.75	89238.69	95485.37
	NS	92049.00	94810.44	97654.62	100584.19	103601.62	106709.62
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	160129.00	167656.00	175599.25	183984.94	192840.31	202195.00
EARLY CHILDHOOD INSTRUCTION	S	235946.00	252462.12	270134.19	289043.27	308276.06	330925.31
	NS	20633.00	21251.98	21889.52	22546.19	23222.55	23919.22
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	256579.00	273714.06	292023.69	311589.56	332498.56	354844.50
ELEMENTARY INSTRUCTION	S	2094176.00	2240767.00	2397618.00	2565450.00	2745029.00	2937180.00
	NS	136125.00	140208.69	144414.81	148747.12	153209.37	157805.62
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	2230301.00	2390975.00	2542032.80	2714197.00	2898238.00	3094985.00
SECONDARY INSTRUCTION	S	7642023.00	2825963.00	3024347.00	3236585.00	3463142.00	3705561.00
	NS	182729.00	188210.81	193856.94	199672.50	205662.44	211832.25
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	2824752.00	3015173.00	3218703.90	3436257.50	3668804.00	3917393.00
VOC.-TECH. INSTRUCTION	S	0.0	0.0	0.0	0.0	0.0	0.0
	NS	112526.00	116004.69	119484.75	123069.19	126761.12	130563.94
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	112526.00	116004.69	119484.75	123069.19	126761.12	130563.94
SPECIAL INSTRUCTION	S	134060.00	143444.12	153435.06	164228.87	175724.75	188025.37
	NS	7175.00	7390.25	7611.95	7840.30	8075.50	8317.76
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	141235.00	150834.31	151097.00	172069.12	183800.25	196343.12
CONTINUING INSTRUCTION	S	0.0	0.0	0.0	0.0	0.0	0.0
	NS	1950.00	1905.50	1962.66	2021.54	2082.19	2144.65
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	1950.00	1905.50	1962.66	2021.54	2082.19	2144.65
INSTRUCTIONAL SUPPORT SER.	S	158467.00	1704345.00	1824249.00	1951988.00	2088625.00	2234828.00
	NS	238765.00	245927.87	253305.44	260904.37	268731.25	276793.12
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	1823402.00	1950272.87	2047554.44	2151892.37	2257356.25	2411621.12

NURSING	CO	35390.00	85390.00	85390.00	85390.00	85390.00	85390.00
	T	1917562.00	2036262.00	2162984.00	2298282.00	2442746.00	2597011.00
NURSING	S	161655.00	172970.75	185078.50	198033.87	211396.00	226728.69
	NS	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0
MEDICAL	T	161655.00	172970.75	185078.50	198033.87	211396.00	226728.69
	S	9470.00	10346.89	11071.16	11846.14	12675.36	13562.62
	NS	7184.00	7399.52	7621.50	7850.13	8065.63	8328.20
DENTAL	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	16354.00	17746.41	18692.66	19696.27	20760.98	21890.82
	S	3250.00	3477.50	3720.92	3991.38	4260.07	4558.28
PSYCHOLOGICAL	NS	348.00	358.44	369.19	380.27	391.68	403.43
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	3598.00	3835.94	4090.11	4361.65	4651.75	4961.70
HEALTH SUPPORT SERVICES	S	2000.00	2140.00	2289.80	2450.08	2621.58	2805.09
	NS	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0
GENERAL SERVICES	T	2000.00	2140.00	2289.80	2450.08	2621.58	2805.09
	S	3034.00	3246.38	3473.62	3716.77	3976.94	4255.32
	NS	8362.00	8612.86	8871.23	9137.36	9411.47	9693.82
PUPIL TRANSPORTATION	CO	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00
	T	12663.00	13126.23	13611.86	14121.13	14655.41	15216.14
	S	52459.00	98931.06	105856.12	113266.00	121194.50	129678.06
FACILITIES	NS	20110.00	20713.29	21334.67	21974.70	22633.91	23312.92
	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	112569.00	119644.31	127190.75	135240.69	143828.47	152990.94
FACILITIES	S	327513.00	350438.75	374969.06	401216.62	429301.37	459352.31
	NS	127878.00	131516.25	135263.62	139123.44	143099.00	147193.94
	CO	750.00	750.00	750.00	750.00	750.00	750.00
FACILITIES	T	456141.00	482705.00	510982.69	541090.06	573150.37	607296.25
	S	0.0	0.0	0.0	0.0	0.0	0.0
	NS	37400.00	38521.99	39677.61	40867.91	42093.90	43356.71
FACILITIES	CO	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00
	T	45477.00	46598.99	47754.61	48944.91	50170.90	51433.71
FACILITIES	S	711392.00	761831.19	815158.50	872218.94	933273.37	998602.12
	NS	497874.00	511797.06	526123.31	540886.56	556092.69	571755.31
	CO	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00
FIXED CHARGES	T	1242700.00	1306455.00	1374115.00	1445939.00	1522200.00	1603191.00
	S	632710.00	676999.50	724398.62	775095.31	829351.12	887405.44
	NS	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00
BUSINESS SUPPORT SERVICES	CO	0.0	0.0	0.0	0.0	0.0	0.0
	T	686957.00	731246.50	778635.62	829342.31	883598.12	941652.44
	S	51310.00	54901.68	58744.73	62856.82	67256.69	71964.62
TOTAL AMOUNT	NS	39375.00	40556.24	41772.89	43026.04	44316.77	45646.27
	CO	10347.00	10347.00	10347.00	10347.00	10347.00	10347.00
	T	101532.00	106304.87	111364.56	116729.81	122420.44	128457.87
TOTAL AMOUNT	S	8921528.00	9546735.00	10214247.00	10929238.00	11694274.00	12512370.00
	NS	1506450.00	1641702.00	1683106.00	1735902.00	1785131.00	1835640.00
	CO	139165.00	139165.00	139165.00	139165.00	139165.00	139165.00
TOTAL AMOUNT	T	10657353.00	11326999.00	12041514.00	12804305.00	13618571.00	14487873.00

DEBT SERVICE

1639464.00 1639464.00 1639464.00 1639464.00 1639464.00

TOTAL COST

12296917.00 12966363.00 13580976.00 14443769.00 15256035.00 16127321.00

MANPOWER (FULL-TIME EQUIVALENTS)

		CY	Y1	Y2	Y3	Y4	Y5
PROFESSIONAL ADMINISTRATION	P	0.00	9.00	9.00	9.00	9.00	9.00
TURNOVER RATE 2.0	H	0.18	0.18	0.18	0.18	0.18	
PRINCIPALS	P	25.00	25.00	25.00	25.00	25.00	25.00
TURNOVER RATE 5.0	H	1.25	1.25	1.25	1.25	1.25	
TEACHERS - EARLY CHILDHOOD	P	24.00	24.00	24.00	24.00	24.00	24.00
SEE INDICATOR 7	H	3.36	3.36	3.36	3.36	3.36	
TEACHERS - ELEMENTARY	P	239.00	239.00	239.00	239.00	239.00	239.00
SEE INDICATOR 7	H	33.46	33.46	33.46	33.46	33.46	
TEACHERS - SECONDARY	P	307.00	307.00	307.00	307.00	307.00	307.00
SEE INDICATOR 7	H	42.98	42.98	42.98	42.98	42.98	
TEACHERS - VOC.-TECH.	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
TEACHERS - SPECIAL	P	13.00	13.00	13.00	13.00	13.00	13.00
SEE INDICATOR 7	H	1.82	1.82	1.82	1.82	1.82	
TEACHERS - CONTINUING	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
INSTRUCTIONAL SPECIALISTS	P	104.00	104.00	104.00	104.00	104.00	104.00
TURNOVER RATE 2.0	H	2.08	2.08	2.08	2.08	2.08	
NURSES	P	18.00	18.00	18.00	18.00	18.00	18.00
TURNOVER RATE 2.0	H	0.36	0.36	0.36	0.36	0.36	
PSYCHOLOGISTS	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
CLERICAL PERSONNEL	P	75.00	75.00	75.00	75.00	75.00	75.00
TURNOVER RATE 2.0	H	15.00	15.00	15.00	15.00	15.00	
OPERATIONS PERSONNEL	P	134.00	134.00	134.00	134.00	134.00	134.00
TURNOVER RATE 2.0	H	2.68	2.68	2.68	2.68	2.68	
MAINTENANCE PERSONNEL	P	21.00	21.00	21.00	21.00	21.00	21.00
TURNOVER RATE 2.0	H	0.42	0.42	0.42	0.42	0.42	
BUS DRIVERS	P	58.00	58.00	58.00	58.00	58.00	58.00
TURNOVER RATE 15.0	H	8.70	8.70	8.70	8.70	8.70	
FOOD SERVICE PERSONNEL	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
ADMINISTRATIVE STAFF	P	7.00	7.00	7.00	7.00	7.00	7.00
TURNOVER RATE 2.0	H	0.14	0.14	0.14	0.14	0.14	
TOTAL POSITIONS		1034.00	1034.00	1034.00	1034.00	1034.00	1034.00
TOTAL HIRES		112.43	112.43	112.43	112.43	112.43	



## Page 5 - Base Case Indicators

Five indicators are calculated and seven are entered. All entered indicator values are actually Final Base Case values. Excess enrollment is the difference between the Average Daily Membership and the standard of twenty-five pupils per classroom.

Weighted Enrollment-Staff is used to calculate Teachers per 1000 Weighted Pupils and Instructional Specialists, Nurses, and Psychologists per 1000 Weighted Pupils.

Weighted Enrollment-Finance is used to calculate Expenditures for Materials, Supplies, and Library Books per Weighted Pupil and Net Expenditures per Weighted Pupil. If the Vocational-Technical Program is conducted outside the school district, the non-salary cost for the Vocational-Technical Program is regarded as a tuition payment and is deducted from the total cost before calculating Net Expenditures per Weighted Pupil.

For Secondary Course Offerings, Professional Staff Turnover, Professional Staff with MA Degrees or More, Percent of Graduating Class Attending Post High School Education, Dropouts as a Percentage of Enrollment, Language Achievement, and Mathematics Achievement, the CY-Y5 indicator levels are entered.

Expenditures for curriculum materials, supplies, and library books are considered part of the non-salary cost for the Instructional Support Service Program. The CY expenditure for curriculum materials, etc. is entered, and Y1-Y5 expenditures are calculated in the Base Case by inflating the CY expenditure.

## Page 6 - Base Case Indicator Gaps

CY-Y5 desired indicator levels are entered for each of the twelve indicators. The indicator levels on page 5 are subtracted from the desired indicator levels to obtain the indicator gaps.

## INDICATORS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT	1601.70	2434.29	2961.47	3503.49	4053.44	4599.42
TEACHERS/1000 WGT. PUPILS	44.09	41.38	39.81	38.31	36.90	35.59
SECONDARY COURSE OFFERINGS	167.00	167.00	167.00	167.00	167.00	167.00
INST. SPEC., NURS., PSYCH.,/1000 WGT. PUPILS	9.23	8.66	8.33	8.02	7.72	7.45
MATLS., SUPPS., LIB. BKS./WGT. PUPIL	8.39	8.11	8.03	7.96	7.89	7.83
NET EXPEND./WGT. PUPIL	863.22	855.11	867.44	880.67	895.55	912.73
PROF. STAFF TURNOVER (PCT.)	14.00	14.00	14.00	14.00	14.00	14.00
PROF. STAFF MA OR MORE (PCT.)	19.00	19.00	19.00	19.00	19.00	19.00
PCT. GRAD. CLASS ATTEND PHSE	67.10	67.10	67.10	67.10	67.10	67.10
DROPOUTS PCT. ENROLLMENT	1.20	1.20	1.20	1.20	1.20	1.20
LANGUAGE ACHIEVEMENT	1.76	1.76	1.76	1.76	1.76	1.76
MATHEMATICS ACHIEVEMENT	1.35	1.35	1.35	1.35	1.35	1.35

## SUBSIDIARY DATA

CLASSROOMS	442.00	442.00	442.00	442.00	442.00	442.00
MATLS., SUPPS., LIB. BKS.	118381.00	121932.37	125590.25	129357.81	133238.44	137235.56

INDICATOR GAPS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT	D	700.00	700.00	700.00	700.00	700.00
	A	1601.70	2434.29	2961.47	3503.49	4053.44
	G	-901.70	-1734.29	-2261.47	-2803.49	-3353.44
TEACHERS/1000 WGT. PUPILS	D	50.00	50.00	50.00	50.00	50.00
	A	44.09	41.38	39.81	38.31	36.90
	G	5.91	8.62	10.19	11.69	13.10
SECONDARY COURSE OFFERINGS	D	180.00	180.00	180.00	180.00	180.00
	A	167.00	167.00	167.00	167.00	167.00
	G	13.00	13.00	13.00	13.00	13.00
INST. SPEC., NURS., PSYCH./1000 WGT. PUPILS	D	10.00	10.00	10.00	10.00	10.00
	A	9.23	8.66	8.33	8.02	7.72
	G	0.77	1.34	1.67	1.98	2.28
MATLS., SUPPS., LIB. BKS./WGT. PUPIL	D	12.00	12.00	12.00	12.00	12.00
	A	8.39	8.11	7.96	7.89	7.83
	G	3.61	3.89	4.04	4.11	4.17
NET EXPEND./WGT. PUPIL	D	900.00	900.00	900.00	900.00	900.00
	A	863.22	855.11	867.44	880.67	895.55
	G	36.78	44.89	32.56	19.33	4.45
PROF. STAFF TURNOVER (PCT.)	D	10.00	10.00	10.00	10.00	10.00
	A	14.00	14.00	14.00	14.00	14.00
	G	-4.00	-4.00	-4.00	-4.00	-4.00
PROF. STAFF WA OR MORE (PCT.)	D	30.00	30.00	30.00	30.00	30.00
	A	19.00	19.00	19.00	19.00	19.00
	G	11.00	11.00	11.00	11.00	11.00
PCT. GRAD. CLASS ATTEND PHSE	D	70.00	70.00	70.00	70.00	70.00
	A	67.10	67.10	67.10	67.10	67.10
	G	2.90	2.90	2.90	2.90	2.90
DROPOUTS PCT. ENROLLMENT	D	1.00	1.00	1.00	1.00	1.00
	A	1.20	1.20	1.20	1.20	1.20
	G	-0.20	-0.20	-0.20	-0.20	-0.20
LANGUAGE ACHIEVEMENT	D	2.00	2.00	2.00	2.00	2.00
	A	1.76	1.76	1.76	1.76	1.76
	G	0.24	0.24	0.24	0.24	0.24
MATHEMATICS ACHIEVEMENT	D	1.75	1.75	1.75	1.75	1.75
	A	1.35	1.35	1.35	1.35	1.35
	G	0.40	0.40	0.40	0.40	0.40

## Page 7 - Adjusted Base Case Subsidiary Data

The pupil-teacher ratios for each instructional program are calculated as follows:

1. Early Childhood Instruction: Weighted CY Kindergarten enrollment is divided by CY Early Childhood Teachers.
2. Elementary Instruction: CY Grades 1-6 enrollment is divided by CY Elementary Teachers.
3. Secondary Instruction: CY Grades 7-12 enrollment plus weighted CY Vocational-Technical enrollment is divided by CY Secondary Teachers. The weight is .5 under the assumption that the Vocational-Technical pupils spend 1/2 time in Secondary Instruction.
4. Vocational-Technical Instruction: The Vocational-Technical Program is conducted outside the school district. The pupil-teacher ratio does not apply.
5. Special Instruction: Weighted CY Special Education enrollment Grades 1-6 plus weighted CY Special Education enrollment Grades 7-12 is divided by CY Special Education Teachers. The weights are 1.0 and 1.1 respectively.

For Y1-Y5, the number of teaching positions for teachers corresponding to these programs is calculated to maintain the CY pupil-teacher ratios under rising and falling enrollment.

The CY Mean Salary per Teacher in the school district at CY is calculated as the ratio of the corresponding program CY salary cost and CY teaching positions. The Y1-Y5 mean salaries are calculated by inflating the CY mean salary.

Three options for calculating teachers salaries are provided in EPPBS, Version II, Model 1 and can be used for each program. Option #3 is shown on page 7. Examples for each option are shown. Even though the example for Option #3 shows more money than the other two options, this situation will vary; because, depending on what numbers are used, Option #3 may yield smaller salary amounts than Option #1. However, Option #3 will always yield larger amounts than Option #2. Each example utilizes the following data: (1) CY teaching staff for a given program is 100; (2) turnover rate is 10 percent; (3) 30 new teachers must be hired for Y1 (10 replacements and 20 new positions); (4) mean salary for CY is \$10,000; (5) mean leaving salary is \$8,000 (end of CY); (6) mean starting salary is \$7,000 (beginning of CY); (7) compound inflation rate for CY mean salary is five percent; and (8) compound inflation rate for CY starting salary is three percent.



Option #1 - Teachers who enter and teachers who leave the payroll of the school district will be assumed to have the same salary as the mean salary of teachers currently employed, i.e., \$10,000 x 1.05.

$$\text{Salary for Y1} = 120 \times (\$10,000 \times 1.05) = \$1,260,000$$

The next two options permit a more detailed handling of salaries.

Option #2 - A CY salary per entering teacher is entered (\$7,000). An inflation rate, different from the rate used for salaries so far, is used to obtain the Y1-Y5 salary per entering teacher, i.e., \$7,000 x 1.03 for Y1, \$7,210 x 1.03 for Y2, etc. Once the teacher has joined the school district, his salary is inflated at the rate used for the mean salary per teacher in the school district at CY (five percent). A teacher hired for Y1 will begin at a salary of \$7,210. His salary will be inflated for each year thereafter at a compound inflation rate of five percent. The starting salary of a teacher hired for Y2 will be \$7,210 x 1.03 or \$7426.30. His salary for each subsequent year will be inflated at a compound inflation rate of five percent. The turnover rate (ten percent) is assumed to apply to both teachers employed in the CY and teachers who enter during Y1-Y5. Teachers who leave during Y1-Y5 will have been paid either the mean salary appropriate to CY teachers (\$10,000 x 1.05) or the salary appropriate to the year entered (\$7,000 x 1.03).

$$\begin{aligned} \text{Salary for Y1} &= 90 \times (\$10,000 \times 1.05) + 30 \times (\$7,000 \times 1.03) \\ &= \$1,161,300 \end{aligned}$$

Option #3 - In addition to the assumptions included under Option #2 several additional assumptions are included under this option. A mean salary per departing teacher for those employed in the CY (\$8,000) may be entered besides the mean CY salary per entering teacher (\$7,000). Those CY teachers who leave during Y1-Y5 will be paid the mean salary per departing teacher for the previous year.

$$\begin{aligned} \text{Salary for Y1} &= 90 \times (\$10,000 \times 1.05) + \\ &\quad 10 \times (\$10,000 \times 1.05 - \$8,000 \times 1.05) + \\ &\quad 30 \times (\$7,000 \times 1.03) = \\ &\quad 100 \times (\$10,000 \times 1.05) - \\ &\quad 10 \times (\$8,000 \times 1.05) + \\ &\quad 30 \times (\$7,000 \times 1.03) = \$1,350,000 \end{aligned}$$

If the Vocational-Technical Program is conducted inside the school district, then the above discussion of salaries per teacher would apply also to Vocational-Technical teachers.

The CY non-salary costs per pupil are calculated using the same pupil populations as discussed for the pupil-teacher ratios



above. The weights for Special Education enrollment Grades 1-6 and Special Education enrollment Grades 7-12 are 1.0 and 1.25 respectively. The CY non-salary costs per pupil are inflated through Y5. If the Vocational-Technical Program is conducted outside the school district, the non-salary cost per pupil is regarded as tuition and may be inflated at a rate different from the other non-salary costs. The total non-salary cost for each program is obtained by multiplying the corresponding non-salary cost per pupil by the number of pupils.

For the Instructional Support Services Program, the CY non-salary cost per pupil is the ratio of its CY total non-salary cost and CY Weighted Enrollment-Finance. The non-salary cost per pupil is inflated through Y5. The Instructional Support Services Y1-Y5 total non-salary cost is obtained by multiplying the non-salary cost per pupil by each year by the Weighted Enrollment-Finance for each year.

For both the Medical and Dental Programs, the CY salary cost per pupil is the ratios of the CY total salary cost and the CY Weighted Enrollment-Staff. The salary cost per pupil is inflated through Y5. The Y1-Y5 total salary costs are obtained by multiplying the salary cost per pupil for each year by the Weighted Enrollment-Staff for each year. The salary cost for the Medical and Dental Programs is projected on a per pupil basis because it is assumed that the expenses involved are contractual expenses as compared to having physicians on the school district payroll.

The non-salary cost for the Medical and Dental Programs is projected in the same manner as the Instructional Support Services non-salary cost.

The Adjusted Base Case projection of the Pupil Transportation Program can be done in two ways. In the way that is depicted on page 7, riders are projected assuming a constant percentage of total enrollment (less 1/2 Kindergarten, if it is single-session). CY number of buses, seats per bus, and number of trips per day per bus are used to calculate the busing capacity. A bus is added only when the number of excess riders exceeds the mean capacity per bus. For each bus that is added, a bus driver is hired. The CY salary per bus driver is calculated by dividing CY bus drivers into CY Pupil Transportation salary cost. The salary per bus driver is inflated through Y5. The Y1-Y5 Pupil Transportation salary cost is obtained by multiplying the salary per bus driver for each year by the number of bus drivers for each year. The CY non-salary cost per bus is the CY total Pupil Transportation non-salary cost divided by CY buses. The non-salary cost per bus is inflated through Y5. The Y1-Y5 total Pupil Transportation non-salary cost is obtained by multiplying the non-salary cost per bus for each year by the number of buses for each year. Y1-Y5

capital outlay per bus is entered. If a bus is added in any year, a capital outlay is incurred in that year.

If the Pupil Transportation costs are a contractual expense, then the projection occurs as follows. The Y1-Y5 riders are projected as discussed above. The CY non-salary cost per rider is calculated as the ratio of CY Pupil Transportation total non-salary cost and CY riders. The non-salary cost per rider is inflated through Y5. The Y1-Y5 Pupil Transportation total non-salary cost is obtained by multiplying the non-salary cost per rider for each year by the number of riders for each year.

Food Services non-salary cost is projected in the same manner as Instructional Support Services non-salary cost.

For the Fixed Charges Program, the ratio of fixed charges CY salary cost to CY total other salary (not including Medical and Dental Program salaries because they are contractual expenses) is calculated. The fixed charges salary cost for each year in Y1-Y5 is calculated assuming this ratio to total other salary for each year.

## SUBSIDIARY DATA ON PROGRAM-EARLY CHILDHOOD INSTRUCTION

PUPIL-TEACHER RATIO	23.40				
	CY	Y1	Y2	Y3	Y4
MEAN SALARY/TEACHER IN SYSTEM AT CY	9831.08	10519.25	11255.59	12043.47	12886.50
DEPARTING SAL/TEACHER FOR CY TEACHERS		8646.66	9251.92	9899.55	10592.51
SALARY/TEACHER ENTERING IN Y1		7349.59	7864.49	8414.99	9004.04
SALARY/TEACHER ENTERING IN Y2			7717.48	8257.70	8835.73
SALARY/TEACHER ENTERING IN Y3				8103.35	8670.58
SALARY/TEACHER ENTERING IN Y4					8508.50
SALARY/TEACHER ENTERING IN Y5					8933.92
NON-SALARY COST/PUPIL	36.746	37.849	38.984	40.153	41.358

## SUBSIDIARY DATA ON PROGRAM-ELEMENTARY INSTRUCTION

PUPIL-TEACHER RATIO	25.26				
	CY	Y1	Y2	Y3	Y4
MEAN SALARY/TEACHER IN SYSTEM AT CY	8762.24	9375.59	10031.87	10734.10	11485.48
DEPARTING SAL/TEACHER FOR CY TEACHERS		7704.00	8243.27	8820.29	9437.70
SALARY/TEACHER ENTERING IN Y1		7349.59	7864.49	8414.99	9004.04
SALARY/TEACHER ENTERING IN Y2			7717.48	8257.70	8835.73
SALARY/TEACHER ENTERING IN Y3				8103.35	8670.58
SALARY/TEACHER ENTERING IN Y4					8508.50
SALARY/TEACHER ENTERING IN Y5					8933.92
NON-SALARY COST/PUPIL	22.552	23.229	23.926	24.643	25.383

## SUBSIDIARY DATA ON PROGRAM-SECONDARY INSTRUCTION

PUPIL-TEACHER RATIO	19.14				
	CY	Y1	Y2	Y3	Y4
MEAN SALARY/TEACHER IN SYSTEM AT CY	8605.94	9208.35	9852.92	10542.62	11280.59
DEPARTING SAL/TEACHER FOR CY TEACHERS		7569.18	8099.01	8665.93	9272.54
SALARY/TEACHER ENTERING IN Y1		7349.59	7864.49	8414.99	9004.04
SALARY/TEACHER ENTERING IN Y2			7717.48	8257.70	8835.73
SALARY/TEACHER ENTERING IN Y3				8103.35	8670.58
SALARY/TEACHER ENTERING IN Y4					8508.50
SALARY/TEACHER ENTERING IN Y5					8933.92
NON-SALARY COST/PUPIL	31.103	32.036	32.997	33.987	35.006

## SUBSIDIARY DATA ON PROGRAM-VOC.-TECH. INSTRUCTION

PUPIL-TEACHER RATIO	0.0				
	CY	Y1	Y2	Y3	Y4
MEAN SALARY/TEACHER IN SYSTEM AT CY	0.0	0.0	0.0	0.0	0.0
DEPARTING SAL/TEACHER FOR CY TEACHERS		0.0	0.0	0.0	0.0
NON-SALARY COST/PUPIL	375.420	386.682	398.282	410.230	422.537

## SUBSIDIARY DATA ON PROGRAM-SPECIAL INSTRUCTION

PUPIL-TEACHER RATIO	12.58				
	CY	Y1	Y2	Y3	Y4
MEAN SALARY/TEACHER IN SYSTEM AT CY	10312.30	11034.16	11806.54	12632.99	13517.29
DEPARTING SAL/TEACHER FOR CY TEACHERS		9069.32	9704.16	10383.44	11110.27
SALARY/TEACHER ENTERING IN Y1		7349.59	7864.49	8414.99	9004.04
SALARY/TEACHER ENTERING IN Y2			7717.48	8257.70	8835.73
SALARY/TEACHER ENTERING IN Y3				8103.35	8670.58
SALARY/TEACHER ENTERING IN Y4					8508.50
SALARY/TEACHER ENTERING IN Y5					8933.92
NON-SALARY COST/PUPIL	41.354	42.595	43.873	45.189	46.545

## SUBSIDIARY DATA ON PROGRAM-INSTRUCTIONAL SUPPORT SER.

	CY	Y1	Y2	Y3	Y4
NON-SALARY COST/PUPIL	16.916	17.423	17.946	18.485	19.039

## SUBSIDIARY DATA ON PROGRAM-MEDICAL

	CY	Y1	Y2	Y3	Y4

SALARY COST/PUPIL	0.731	0.782	0.837	0.896	0.959	1.026
NON-SALARY COST/PUPIL	0.509	0.524	0.540	0.556	0.573	0.590

## SUBSIDIARY DATA ON PROGRAM-DENTAL

SALARY COST/PUPIL	CY	Y1	Y2	Y3	Y4	Y5
NON-SALARY COST/PUPIL	0.246	0.263	0.281	0.301	0.322	0.345
	0.025	0.025	0.026	0.027	0.028	0.029

## SUBSIDIARY DATA ON PROGRAM-PUPIL TRANSPORTATION

RIDERS	CY	Y1	Y2	Y3	Y4	Y5
CAPACITY BEFORE ADDING BUSES	9968.01	10623.99	11039.34	11466.39	11899.68	12329.85
CAPACITY AFTER ADDING BUSES	11088.00	11088.00	11088.00	11088.00	11286.00	11880.00
BUSES	56.00	56.00	56.00	57.00	60.00	62.00
SALARY/RUS DRIVER	5646.77	6042.04	6464.98	6917.52	7401.74	7919.86
NON-SALARY COST/RUS	2283.54	2352.04	2422.60	2495.28	2570.13	2647.23
CAPITAL OUTLAY/BUS		8000.00	8000.00	8000.00	8000.00	8000.00

## SUBSIDIARY DATA ON PROGRAM-FOOD SERVICES

NON-SALARY COST/PUPIL	CY	Y1	Y2	Y3	Y4	Y5
	2.650	2.729	2.811	2.895	2.982	3.072

## SUBSIDIARY DATA ON PROGRAM-FIXED CHARGES

CY FIXED CHARGES SALARY/TOTAL SALARY - FIXED CHARGES, MEDICAL, AND DENTAL SALARIES	0.0765
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#### Page 8 - Adjusted Base Case Program Costs

The programs whose costs may differ from the Base Case are: Early Childhood Instruction, Elementary Instruction, Secondary Instruction, Vocational-Technical Instruction, Special Instruction, Instructional Support Services, Medical, Dental, Pupil Transportation, Food Services, and Fixed Charges. The discussion for page 7 outlined the bases for projecting the costs for these programs.

#### Page 9 - Adjusted Base Case Manpower

The manpower that may change for the Base Case are Teachers-Early Childhood, Elementary, Secondary, Vocational-Technical, Special, and Bus Drivers. The calculation of personnel to be hired (Hires) reflects turnover and position changes.

#### Page 10 - Adjusted Base Case Indicators

The indicators that change from the Base Case are Teachers per 1000 Weighted Pupils; Materials, Supplies and Library Books per Weighted Pupil; and Net Expenditure per Weighted Pupil. Because expenditures for curriculum materials, supplies, and library books are part of the non-salary cost of Instructional Support Services Program, these expenditures are projected on the same basis as the non-salary cost. See the discussion of page 7 for a description of how the projection is done. All entered indicator values are actually Final Base Case values.



## PROGRAM COSTS

	CY	Y1	Y2	Y3	Y4	Y5
POLICY AND EXECUTIVE						
S	33170.00	35491.89	37976.28	40634.59	43478.97	46522.48
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	33170.00	35491.89	37976.28	40634.59	43478.97	46522.48
COMPREHENSIVE PLANNING						
S	43360.00	46395.18	49642.79	53117.75	56835.94	60814.43
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	43360.00	46395.18	49642.79	53117.75	56835.94	60814.43
INFORMATION AND LIAISON						
S	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
COMMUNITY SERVICES						
S	55583.00	59473.79	63636.89	68091.37	72857.75	77957.75
NS	11920.00	12277.59	12645.91	13025.28	13416.02	13818.50
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	67503.00	71751.37	76282.75	81116.62	86273.75	91776.25
COORDINATE SUPPORT SERVICES						
S	68080.00	72845.56	77944.62	83400.75	89238.65	95485.37
NS	92049.00	94810.44	97654.62	100584.19	103601.62	106709.62
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	160129.00	167656.00	175599.25	183984.94	192840.31	202195.00
EARLY CHILDHOOD INSTRUCTION						
S	235946.00	277505.19	285612.50	294585.69	312939.31	324238.37
NS	20633.00	24204.14	25339.58	26200.12	27503.07	28690.26
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	256579.00	301709.31	310952.06	320785.75	340442.37	352928.62
ELEMENTARY INSTRUCTION						
S	2094176.00	2353870.00	2504364.00	2660737.00	2830778.00	3015125.00
NS	136125.00	150173.81	159009.37	168141.37	177652.75	187662.12
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	2230301.00	2504043.00	2663373.00	2828878.00	3008430.00	3202787.00
SECONDARY INSTRUCTION						
S	2642023.00	2942491.00	3188939.00	3467176.00	3779790.00	4111755.00
NS	182729.00	198334.06	215024.37	233438.19	252728.37	272857.87
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	2824752.00	3140825.00	3403963.00	3700614.00	4032518.00	4384612.00
VOC.-TECH. INSTRUCTION						
S	0.0	0.0	0.0	0.0	0.0	0.0
NS	112626.00	122191.62	132628.06	143990.87	155916.19	168427.44
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	112626.00	122191.62	132628.06	143990.87	155916.19	168427.44
SPECIAL INSTRUCTION						
S	134060.00	147664.81	153724.81	163075.31	176438.12	191304.12
NS	7175.00	7858.79	8434.56	9037.80	9669.65	10331.28
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	141235.00	155523.56	167159.37	172113.00	186107.75	201635.37
CONTINUING INSTRUCTION						
S	0.0	0.0	0.0	0.0	0.0	0.0
NS	1850.00	1905.50	1962.66	2021.54	2082.19	2144.65
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	1850.00	1905.50	1962.66	2021.54	2082.19	2144.65
INSTRUCTIONAL SUPPORT SER.						
S	150347.00	1708945.00	1824289.00	1951988.00	2088625.00	2234828.00
NS	238765.00	261835.19	280567.62	300578.94	321685.81	343695.37

CO	85390.00	85390.00	85390.00	85390.00	85390.00	85390.00	85390.00
T	1917562.00	2052170.00	2190246.00	2337956.00	2495700.00	2663913.00	
NURSING							
S	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69	
NS	0.0	0.0	0.0	0.0	0.0	0.0	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69	
MEDICAL							
S	9670.00	11023.72	12261.58	13634.09	15146.23	16798.87	
NS	7184.00	7878.15	8441.77	9043.87	9678.94	10341.17	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	16854.00	18901.87	20703.35	22677.96	24825.17	27140.04	
DENTAL							
S	3250.00	3704.97	4121.00	4582.29	5090.51	5645.95	
NS	348.00	381.63	408.93	438.09	468.86	500.94	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	3598.00	4086.60	4529.93	5020.39	5559.37	6146.88	
PSYCHOLOGICAL							
S	2000.00	2140.00	2289.80	2450.08	2621.58	2805.09	
NS	0.0	0.0	0.0	0.0	0.0	0.0	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	2000.00	2140.00	2289.80	2450.08	2621.58	2805.09	
HEALTH SUPP. & SERVICES							
S	3034.00	3246.38	3473.62	3716.77	3976.94	4255.32	
NS	8362.00	8612.86	8871.23	9137.36	9411.47	9693.82	
CO	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00	
T	12663.00	13126.23	13611.86	14121.13	14655.41	15216.14	
GENERAL SERVICES							
S	52459.00	98931.06	105856.12	113266.00	121194.50	129678.06	
NS	20110.00	20713.29	21334.67	21974.70	22633.91	23312.92	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	112569.00	119644.31	127190.75	135240.69	143828.37	152990.94	
PUPIL TRANSPORTATION							
S	327513.00	350438.44	374968.81	408133.87	458908.00	506871.25	
NS	127878.00	131714.25	135665.56	142230.69	154207.87	164128.50	
CO	750.00	750.00	750.00	8750.00	24750.00	16750.00	
T	456141.00	482902.69	511384.37	559114.56	637865.87	687749.75	
FOOD SERVICES							
S	0.0	0.0	0.0	0.0	0.0	0.0	
NS	37400.00	41013.72	43947.96	47082.51	50388.68	53836.29	
CO	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00	
T	45477.00	49090.72	52024.96	55159.51	58465.68	61913.29	
FACILITIES							
S	711952.00	761831.19	815158.50	872218.94	933273.37	998602.12	
NS	497874.00	511790.06	526123.31	540886.56	556092.69	571755.31	
CO	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00	
T	124270.00	1306455.00	1374115.00	1445939.00	1522200.00	1603191.00	
FIXED CHARGES							
S	632710.00	696715.37	746677.94	800873.06	862712.75	927790.69	
NS	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00	
CO	0.0	0.0	0.0	0.0	0.0	0.0	
T	686957.00	750962.37	800924.94	855120.06	916959.75	982037.69	
BUSINESS SUPPLY SERVICES							
S	51310.00	54901.62	58744.73	62856.82	67256.69	71964.62	
NS	39375.00	40556.24	41772.89	43026.04	44316.77	45646.27	
CO	10847.00	10847.00	10847.00	10847.00	10847.00	10847.00	
T	101532.00	106304.87	111364.56	116729.81	122420.44	128457.87	
TOTAL ABOVE							
S	8921538.00	9824549.00	10529681.00	11294589.00	12167317.00	13085828.00	
NS	1596650.00	1690497.00	1774077.00	1865083.00	1965695.00	2067795.00	
CO	139165.00	139165.00	139165.00	147165.00	163165.00	155165.00	
T	10657353.00	11654209.00	12442922.00	13306836.00	14296181.00	15308789.00	

DEBT SERVICE

1639464.00 1639464.00 1639464.00 1639464.00 1639464.00

TOTAL COST

12296817.00 13293673.00 14082386.00 14946300.00 15935645.00 16946240.00

MANPOWER (FULL-TIME EQUIVALENTS)

		CY	Y1	Y2	Y3	Y4	Y5
PROFESSIONAL ADMINISTRATION	P	9.00	9.00	9.00	9.00	9.00	9.00
TURNOVER RATE 2.0	H	0.18	0.18	0.18	0.18	0.18	0.18
PRINCIPALS	P	25.00	25.00	25.00	25.00	25.00	25.00
TURNOVER RATE 5.0	H	1.25	1.25	1.25	1.25	1.25	1.25
TEACHERS - EARLY CHILDHOOD	P	24.00	28.00	28.00	28.00	29.00	29.00
SEE INDICATOR 7	H	7.36	3.92	3.92	4.92	4.06	
TEACHERS - ELEMENTARY	P	239.00	255.00	264.00	271.00	278.00	285.00
SEE INDICATOR 7	H	50.46	43.84	43.96	44.94	45.92	
TEACHERS - SECONDARY	P	307.00	324.00	341.00	359.00	378.00	396.00
SEE INDICATOR 7	H	59.98	62.36	65.74	69.26	70.92	
TEACHERS - VOC.-TECH.	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
TEACHERS - SPECIAL	P	13.00	14.00	15.00	15.00	16.00	17.00
SEE INDICATOR 7	H	2.82	2.96	2.10	3.10	3.24	
TEACHERS - CONTINUING	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
INSTRUCTIONAL SPECIALISTS	P	104.00	104.00	104.00	104.00	104.00	104.00
TURNOVER RATE 2.0	H	2.08	2.08	2.08	2.08	2.08	
NURSES	P	18.00	18.00	18.00	18.00	18.00	18.00
TURNOVER RATE 2.0	H	0.36	0.36	0.36	0.36	0.36	
PSYCHOLOGISTS	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
CLERICAL PERSONNEL	P	75.00	75.00	75.00	75.00	75.00	75.00
TURNOVER RATE 20.0	H	15.00	15.00	15.00	15.00	15.00	
OPERATIONS PERSONNEL	P	134.00	134.00	134.00	134.00	134.00	134.00
TURNOVER RATE 2.0	H	2.68	2.68	2.68	2.68	2.68	
MAINTENANCE PERSONNEL	P	21.00	21.00	21.00	21.00	21.00	21.00
TURNOVER RATE 2.0	H	0.42	0.42	0.42	0.42	0.42	
BUS DRIVERS	P	58.00	58.00	58.00	59.00	62.00	64.00
TURNOVER RATE 15.0	H	8.70	8.70	9.70	11.85	11.30	
FOOD SERVICE PERSONNEL	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
ADMINISTRATIVE STAFF	P	7.00	7.00	7.00	7.00	7.00	7.00
TURNOVER RATE 2.0	H	0.14	0.14	0.14	0.14	0.14	
TOTAL POSITIONS		1934.00	1073.00	1099.00	1125.00	1156.00	1184.00
TOTAL HRES		151.43	143.89	147.53	156.18	157.55	



INDICATORS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT	1601.70	2434.29	2961.47	3503.49	4053.44	4599.42
TEACHERS/1000 WGT. PUPILS	44.09	44.15	44.25	44.22	44.36	44.39
SECONDARY COURSE OFFERINGS	167.00	167.00	167.00	167.00	167.00	167.00
INST.SPEC.,NURS.,PSYCH./1000 WGT. PUPILS	9.23	8.66	8.33	8.02	7.72	7.45
MATLS.,SUPPS.,LIB.BKS./WGT. PUPIL	9.39	8.64	9.16	10.01	11.27	13.07
NET EXPEND./WGT. PUPIL	863.22	876.48	892.28	910.29	933.93	957.40
PROF. STAFF TURNOVER (PCT.)	14.00	14.00	14.00	14.00	14.00	14.00
PROF. STAFF MA OR MORE (PCT.)	19.00	19.00	19.00	19.00	19.00	19.00
PCT. GRAD. CLASS ATTEND PHSE	67.10	67.10	67.10	67.10	67.10	67.10
DROPOUTS PCT. ENROLLMENT	1.20	1.20	1.20	1.20	1.20	1.20
LANGUAGE ACHIEVEMENT	1.76	1.76	1.76	1.76	1.76	1.76
MATHEMATICS ACHIEVEMENT	1.35	1.35	1.35	1.35	1.35	1.35

SUBSIDIARY DATA

CLASSROOMS	442.00	442.00	442.00	442.00	442.00	442.00
MATLS.,SUPPS.,LIB.BKS.	118381.00	129819.44	143280.25	162847.50	190443.06	229010.25



#### Page 11 - Adjusted Base Case Indicator Gaps

CY-Y5 desired indicator levels are entered for each of the twelve indicators. The indicator levels on page 10 are subtracted from the desired indicator levels to obtain the indicator gaps.

#### Pages 12-16 - Final Base Case Capital Improvement Projects

These pages exhibit the manpower and cost consequences of five capital improvement projects. For each capital improvement project, the manpower and costs are displayed according to the programs affected. Salary costs do not reflect fixed charges. When these five capital improvement projects are combined with the Adjusted Base Case program costs and manpower, fixed charges salary costs will be incurred for all the salary cost shown at the same ratio described in the discussion of page 7.

#### Page 17 - Final Base Case Program Costs

The programs whose costs differ from the Adjusted Base Case are those programs listed under the five capital improvement projects and Fixed Charges Program.

#### Page 18 - Final Base Case Manpower

The manpower positions that change from the Adjusted Base Case are the manpower positions listed under the five Capital Improvement Projects. The calculation of Hires reflects turnover and position changes.

## INDICATOR GAPS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT	D	700.00	700.00	700.00	700.00	700.00
	A	1601.70	2434.29	2961.47	4053.44	4599.42
	G	-901.70	-1734.29	-2261.47	-3353.44	-3899.42
TEACHERS/1000 WGT. PUPILS	D	50.00	50.00	50.00	50.00	50.00
	A	44.09	44.15	44.22	44.36	44.39
	G	5.91	5.85	5.78	5.64	5.61
SECONDARY COURSE OFFERINGS	D	180.00	180.00	180.00	180.00	180.00
	A	167.00	167.00	167.00	167.00	167.00
	G	13.00	13.00	13.00	13.00	13.00
INST. SPEC., NURS., PSYCH./1000 WGT. PUPILS	D	10.00	10.00	10.00	10.00	10.00
	A	9.23	8.66	8.02	7.72	7.45
	G	0.77	1.34	1.98	2.28	2.55
MATLS., SUPPS., LIB.BKS./WGT. PUPIL	D	12.00	12.00	12.00	12.00	12.00
	A	8.39	8.64	9.16	11.27	13.07
	G	3.61	3.36	2.84	0.73	-1.07
NET EXPEND./WGT. PUPIL	D	900.00	900.00	900.00	900.00	900.00
	A	863.22	876.48	892.28	933.93	957.40
	G	36.78	23.52	-10.29	-33.93	-57.40
PROF. STAFF TURNOVER (PCT.)	D	10.00	10.00	10.00	10.00	10.00
	A	14.00	14.00	14.00	14.00	14.00
	G	-4.00	-4.00	-4.00	-4.00	-4.00
PROF. STAFF MA OR MORE (PCT.)	D	30.00	30.00	30.00	30.00	30.00
	A	19.00	19.00	19.00	19.00	19.00
	G	11.00	11.00	11.00	11.00	11.00
PCT. GRAD. CLASS ATTEND PHSE	D	70.00	70.00	70.00	70.00	70.00
	A	67.10	67.10	67.10	67.10	67.10
	G	2.90	2.90	2.90	2.90	2.90
DROPOUTS PCT. ENROLLMENT	D	1.00	1.00	1.00	1.00	1.00
	A	1.20	1.20	1.20	1.20	1.20
	G	-0.20	-0.20	-0.20	-0.20	-0.20
LANGUAGE ACHIEVEMENT	D	2.00	2.00	2.00	2.00	2.00
	A	1.76	1.76	1.76	1.76	1.76
	G	0.24	0.24	0.24	0.24	0.24
MATHEMATICS ACHIEVEMENT	D	1.75	1.75	1.75	1.75	1.75
	A	1.35	1.35	1.35	1.35	1.35
	G	0.40	0.40	0.40	0.40	0.40

8. CLASSROOMS BEGINNING Y1

CHANGE IN PROGRAM-FACILITIES

MANPOWER	Y1	Y2	Y3	Y4	Y5
OPERATIONS PERSONNEL	0.50	0.50	0.50	0.50	0.50
MAINTENANCE PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS					
SALARY	1800.00	1926.00	2060.82	2205.07	2359.42
NON-SALARY	2700.00	2781.00	2864.43	2950.36	3038.86
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
DEBT SERVICE	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	4500.00	4707.00	4925.24	5155.43	5398.29

OPERATIONS OR CAPITAL IMPROVEMENT PROJECT NUMBER 2 LITTLE BLUE SCHOOL ADDITION

7. CLASSROOMS BEGINNING Y1

CHANGE IN PROGRAM-FACILITIES

MANPOWER	Y1	Y2	Y3	Y4	Y5
OPERATIONS PERSONNEL	0.50	0.50	0.50	0.50	0.50
MAINTENANCE PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS					
SALARY	1800.00	1926.00	2060.82	2205.07	2359.42
NON-SALARY	2700.00	2781.00	2864.43	2950.36	3038.86
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
DEBT SERVICE	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	4500.00	4707.00	4925.24	5155.43	5398.29

OPERATIONS OR CAPITAL IMPROVEMENT PROJECT NUMBER 3 LITTLE GREEN SCHOOL ADDITION

13. CLASSROOMS BEGINNING Y1

CHANGE IN PROGRAM-INSTRUCTIONAL SUPPORT SER.

MANPOWER	Y1	Y2	Y3	Y4	Y5
PRINCIPALS	0.0	0.0	0.0	0.0	0.0
INSTRUCTIONAL SPECIALISTS	1.00	1.00	1.00	1.00	1.00
CLERICAL PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	8800.00	9416.00	10075.11	10780.36	11534.97
NON-SALARY	0.0	0.0	0.0	0.0	0.0
MATLS., SUPPS., LIB. BKS.	5000.00	0.0	0.0	0.0	0.0
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	13800.00	9416.00	10075.11	10780.36	11534.97

CHANGE IN PROGRAM-FACILITIES

MANPOWER	Y1	Y2	Y3	Y4	Y5
OPERATIONS PERSONNEL	2.00	2.00	2.00	2.00	2.00
MAINTENANCE PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	5000.00	5350.00	5724.49	6125.20	6553.96
NON-SALARY	4100.00	4223.00	4349.68	4480.17	4614.57
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
DEBT SERVICE	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	9100.00	9572.99	10074.17	10605.37	11168.53



OPERATIONS CR CAPITAL IMPROVEMENT PROJECT NUMBER 4 LITTLE YELLOW SCHOOL ADDITION

12. CLASSROOMS BEGINNING Y1

CHANGE IN PROGRAM-FACILITIES

MANPOWER	Y1	Y2	Y3	Y4	Y5
OPERATIONS PERSONNEL	1.50	1.50	1.50	1.50	1.50
MAINTENANCE PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	4050.00	4333.50	4636.84	4961.41	5308.71
NON-SALARY	4000.00	4120.00	4243.59	4370.90	4502.02
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
DEBT SERVICE	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	8050.00	8453.49	8880.43	9332.31	9810.73

OPERATIONS OR CAPITAL IMPROVEMENT PROJECT NUMBER 5 SPECIAL LEARNING LABORATORY

O. CLASSROOMS BEGINNING Y1

CHANGE IN PROGRAM-SPECIAL INSTRUCTION

MANPOWER	Y1	Y2	Y3	Y4	Y5
TEACHERS - SPECIAL	4.00	4.00	4.00	4.00	4.00
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	40000.00	42799.98	45795.92	49001.61	52431.67
NON-SALARY	0.0	0.0	0.0	0.0	0.0
CAPITAL OUTLAY	13000.00	0.0	0.0	0.0	0.0
TOTAL ABOVE	53000.00	42799.98	45795.92	49001.61	52431.67

CHANGE IN PROGRAM-INSTRUCTIONAL SUPPORT SER.

MANPOWER	Y1	Y2	Y3	Y4	Y5
PRINCIPALS	0.0	0.0	0.0	0.0	0.0
INSTRUCTIONAL SPECIALISTS	5.00	5.00	5.00	5.00	5.00
CLERICAL PERSONNEL	4.00	4.00	4.00	4.00	4.00
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	58500.00	62594.96	66976.50	71664.81	76681.25
NON-SALARY	0.0	0.0	0.0	0.0	0.0
MATLS., SUPPS., LTR.BKS.	0.0	0.0	0.0	0.0	0.0
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	58500.00	62594.96	66976.50	71664.81	76681.25

CHANGE IN PROGRAM-PSYCHOLOGICAL

MANPOWER	Y1	Y2	Y3	Y4	Y5
PSYCHOLOGISTS	1.00	1.00	1.00	1.00	1.00
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	12500.00	13375.00	14311.23	15313.00	16384.90
NON-SALARY	5000.00	5150.00	5304.49	5463.62	5627.52
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	17500.00	18524.99	19615.72	20776.62	22012.42

## PROGRAM COSTS

	CY	Y1	Y2	Y3	Y4	Y5
POLICY AND EXECUTIVE						
S	33170.00	35491.89	37976.28	40634.59	43478.97	46522.48
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	33170.00	35491.89	37976.28	40634.59	43478.97	46522.48
COMPREHENSIVE PLANNING						
S	43360.00	46395.18	49642.79	53117.75	56835.94	60814.43
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	43360.00	46395.18	49642.79	53117.75	56835.94	60814.43
INFORMATION AND LIAISON						
S	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
NS	0.0	0.0	0.0	0.0	0.0	0.0
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	26140.00	27969.79	29927.64	32022.55	34264.10	36662.57
COMMUNITY SERVICES						
S	55583.00	59473.79	63636.89	68091.37	72857.75	77957.75
NS	11920.00	12277.59	12645.91	13025.28	13416.02	13818.50
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	67503.00	71751.37	76282.75	81116.62	86273.75	91776.25
COORDINATE SUPPORT SERVICES						
S	68080.00	72845.56	77944.62	83400.75	89238.69	95485.37
NS	92049.00	94810.44	97654.62	100584.19	103601.62	106709.62
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	160129.00	167656.00	175599.25	183984.94	192840.31	202195.00
EARLY CHILDHOOD INSTRUCTION						
S	235946.00	277505.19	285612.50	294585.69	312939.31	324238.37
NS	20633.00	24204.14	25339.58	26200.12	27503.07	28690.26
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	256579.00	301709.31	310952.06	320785.75	340442.37	352928.62
ELEMENTARY INSTRUCTION						
S	2094176.00	2353870.00	2504364.00	2660737.00	2830778.00	3015125.00
NS	136125.00	150173.81	159009.37	168141.37	177652.75	187662.12
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	2230301.00	2504043.00	2663373.00	2828878.00	3008430.00	3202787.00
SECONDARY INSTRUCTION						
S	2642023.00	2942491.00	3188939.00	3467176.00	3779790.00	4111755.00
NS	182729.00	198334.06	215024.37	233438.19	252728.37	272857.87
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	2824752.00	3140825.00	3403963.00	3700614.00	4032518.00	4384612.00
VOC.-TECH. INSTRUCTION						
S	0.0	0.0	0.0	0.0	0.0	0.0
NS	112626.00	122191.62	132628.06	143990.87	155916.19	168427.44
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	112626.00	122191.62	132628.06	143990.87	155916.19	168427.44
SPECIAL INSTRUCTION						
S	134060.00	187664.81	201524.75	208871.19	225439.69	243735.75
NS	7175.00	7858.79	8434.56	9037.80	9669.65	10331.28
CO	0.0	13000.00	0.0	0.0	0.0	0.0
T	141235.00	208523.56	209959.31	217908.94	235109.31	254067.00
CONTINUING INSTRUCTION						
S	0.0	0.0	0.0	0.0	0.0	0.0
NS	1850.00	1905.50	1962.66	2021.54	2082.19	2144.65
CO	0.0	0.0	0.0	0.0	0.0	0.0
T	1850.00	1905.50	1962.66	2021.54	2082.19	2144.65
INSTRUCTIONAL SUPPORT SER.						
S	1593407.00	1772245.00	1896298.00	2029039.00	2171069.00	2323043.00
NS	238765.00	266835.19	280567.62	300578.94	321685.81	343695.37

NURSING	CO	85390.00	85390.00	85390.00	85390.00	85390.00	85390.00	85390.00	85390.00
	T	1917562.00	2124470.00	2262255.00	2415007.00	2578144.00	2752128.00	2752128.00	2752128.00
	S	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69	226728.69	226728.69
	NS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69	226728.69	226728.69
MEDICAL	S	9670.00	11023.72	12261.58	13634.09	15146.23	16798.87	16798.87	16798.87
	NS	7184.00	7878.15	8441.77	9043.87	9678.94	10341.17	10341.17	10341.17
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	16854.00	18901.87	20703.35	22677.96	24825.17	27140.04	27140.04	27140.04
DENTAL	S	3250.00	3704.97	4121.00	4582.29	5090.51	5645.55	5645.55	5645.55
	NS	348.00	381.63	408.93	438.09	468.86	500.94	500.94	500.94
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	3598.00	4086.60	4529.93	5020.39	5559.37	6146.88	6146.88	6146.88
PSYCHOLOGICAL	S	2000.00	14640.00	15664.79	16761.30	17934.59	19189.99	19189.99	19189.99
	NS	0.0	5000.00	5150.00	5304.49	5463.62	5627.52	5627.52	5627.52
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	2000.00	19640.00	20814.79	22065.80	23398.21	24817.52	24817.52	24817.52
HEALTH SUPPORT SERVICES	S	3034.00	3246.38	3473.62	3716.77	3976.94	4255.32	4255.32	4255.32
	NS	8362.00	8612.86	8871.23	9137.36	9411.47	9693.82	9693.82	9693.82
	CO	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00
	T	12663.00	13126.23	13611.86	14121.13	14655.41	15216.14	15216.14	15216.14
GENERAL SERVICES	S	92459.00	98931.06	105856.12	113266.00	121194.50	129678.06	129678.06	129678.06
	NS	20110.00	20713.29	21334.67	21974.70	22633.91	23312.92	23312.92	23312.92
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	112569.00	119644.31	127190.75	135240.69	143828.37	152990.94	152990.94	152990.94
PUPIL TRANSPORTATION	S	327513.00	350438.44	374968.81	408133.87	458908.00	506871.25	506871.25	506871.25
	NS	127878.00	131714.25	135665.56	142230.69	154207.87	164128.50	164128.50	164128.50
	CO	750.00	750.00	750.00	8750.00	24750.00	16750.00	16750.00	16750.00
	T	456141.00	482902.69	511384.37	559114.56	637865.87	687749.75	687749.75	687749.75
FOOD SERVICES	S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	NS	37400.00	41013.72	43947.96	47082.51	50388.68	53836.29	53836.29	53836.29
	CO	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00
	T	45477.00	49090.72	52024.96	55159.51	58465.68	61913.29	61913.29	61913.29
FACILITIES	S	711952.00	774481.19	828693.75	886701.81	948770.06	1015183.50	1015183.50	1015183.50
	NS	457874.00	525290.06	540028.06	555208.50	570844.31	586949.50	586949.50	586949.50
	CO	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00
	T	1242700.00	1332605.00	1401555.00	1474744.00	1552448.00	1634967.00	1634967.00	1634967.00
FIXED CHARGES	S	632710.00	706841.44	757512.62	812466.31	875117.44	941063.56	941063.56	941063.56
	NS	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00
	CO	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	T	686957.00	761088.44	811759.62	866713.31	929364.44	995310.56	995310.56	995310.56
BUSINESS SUPPORT SERVICES	S	51310.00	54901.68	58744.73	62856.82	67256.69	71964.62	71964.62	71964.62
	NS	39375.00	40556.24	41772.89	43026.04	44316.77	45646.27	45646.27	45646.27
	CO	10847.00	10847.00	10847.00	10847.00	10847.00	10847.00	10847.00	10847.00
	T	101532.00	106304.87	111364.56	116729.81	122420.44	128457.87	128457.87	128457.87
TOTAL ABOVE	S	8921538.00	9967125.00	10682235.00	11457823.00	12341977.00	13272712.00	13272712.00	13272712.00
	NS	1556650.00	1713997.00	1793132.00	1884710.00	1985910.00	2088616.00	2088616.00	2088616.00
	CO	139165.00	152165.00	139165.00	147165.00	163165.00	155165.00	155165.00	155165.00
	T	10657353.00	11833285.00	12614531.00	13489695.00	14491057.00	15516497.00	15516497.00	15516497.00

DEBT SERVICE	1629464.00	1639464.00	1639464.00	1639464.00	1639464.00	1639464.00
TOTAL COST	12296817.00	13472749.00	14253995.00	15129159.00	16130521.00	17155952.00



MANPOWER (FULL-TIME EQUIVALENTS)

		CY	Y1	Y2	Y3	Y4	Y5
PROFESSIONAL ADMINISTRATION	P	9.00	9.00	9.00	9.00	9.00	9.00
TURNOVER RATE 2.0	H	0.18	0.18	0.18	0.18	0.18	
PRINCIPALS	P	25.00	25.00	25.00	25.00	25.00	25.00
TURNOVER RATE 5.0	H	1.25	1.25	1.25	1.25	1.25	
TEACHERS - EARLY CHILDHOOD	P	24.00	28.00	28.00	28.00	29.00	29.00
SEE INDICATOR 7	H	7.36	3.92	3.92	4.92	4.06	
TEACHERS - ELEMENTARY	P	239.00	256.00	264.00	271.00	278.00	285.00
SEE INDICATOR 7	H	50.46	43.84	43.96	44.94	45.92	
TEACHERS - SECONDARY	P	307.00	324.00	341.00	359.00	378.00	396.00
SEE INDICATOR 7	H	59.98	62.36	65.74	69.26	70.92	
TEACHERS - VOC.-TECH.	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
TEACHERS - SPECIAL	P	13.00	18.00	19.00	19.00	20.00	21.00
SEE INDICATOR 7	H	6.82	3.52	2.66	3.66	3.80	
TEACHERS - CONTINUING	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
INSTRUCTIONAL SPECIALISTS	P	104.00	110.00	110.00	110.00	110.00	110.00
TURNOVER RATE 2.0	H	8.08	2.20	2.20	2.20	2.20	
NURSES	P	18.00	18.00	18.00	18.00	18.00	18.00
TURNOVER RATE 2.0	H	0.36	0.36	0.36	0.36	0.36	
PSYCHOLOGISTS	P	0.0	1.00	1.00	1.00	1.00	1.00
TURNOVER RATE 2.0	H	1.00	0.02	0.02	0.02	0.02	
CLERICAL PERSONNEL	P	75.00	79.00	79.00	79.00	79.00	79.00
TURNOVER RATE 20.0	H	19.00	15.80	15.80	15.80	15.80	
OPERATIONS PERSONNEL	P	134.00	138.50	138.50	138.50	138.50	138.50
TURNOVER RATE 2.0	H	7.18	2.77	2.77	2.77	2.77	
MAINTENANCE PERSONNEL	P	21.00	21.00	21.00	21.00	21.00	21.00
TURNOVER RATE 2.0	H	0.42	0.42	0.42	0.42	0.42	
BUS DRIVERS	P	58.00	58.00	58.00	59.00	62.00	64.00
TURNOVER RATE 15.0	H	8.70	8.70	9.70	11.85	11.30	
FOOD SERVICE PERSONNEL	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
ADMINISTRATIVE STAFF	P	7.00	7.00	7.00	7.00	7.00	7.00
TURNOVER RATE 2.0	H	0.14	0.14	0.14	0.14	0.14	
TOTAL POSITIONS		1034.00	1092.50	1118.50	1144.50	1175.50	1203.50
TOTAL HIRES		170.93	145.48	149.12	157.77	159.14	

#### Page 19 - Final Base Case Indicators

The indicators that change from the Adjusted Base Case are Excess Enrollment; Teachers per 1000 Weighted Pupils; Instructional Specialists, Nurses, and Psychologists per 1000 Weighted Pupils; Materials, Supplies, and Library Books per Weighted Pupil; and Net Expenditures per Weighted Pupil. The five Capital Improvement Projects classrooms are added to the Adjusted Base Case classrooms. The expenditures for curriculum materials, supplies, and library books of Capital Improvement Project 3 are added to the Adjusted Base Case total expenditures for curriculum materials, supplies, and library books.

#### Page 20 - Final Base Case Indicator Gaps

CY-Y5 desired indicator levels are entered for each of the twelve indicators. The indicator levels on page 19 are subtracted from the desired indicator levels to obtain the indicator gaps.

#### Page 21 - Final Base Case Real Estate Tax Revenue Forecast

Y1-Y5 District Real Property Market Value and Y1-Y5 Assessment Ratio are entered. Taxable Assessed Value is the product of District Real Property Market Value times the Assessment Ratio. Revenue per mill is Taxable Assessed Value divided by 1000. The CY Real Estate Tax Rate in mills is entered. Assessed Tax is the product of Revenue per mill times the CY Real Estate Tax Rate. The Collection Percent is entered. Gross Assessed Tax is the result of applying the Collection Percent to Assessed Tax. Y1-Y5 Adjustments, representing such things as penalties, discounts, exonerations, liens filed, etc., are entered. The Total Real Estate Tax at CY Rate results from applying the Adjustments to the Gross Assessed Tax.



## INDICATOR GAPS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT						
D	700.00	700.00	700.00	700.00	700.00	700.00
A	1601.70	1434.29	1961.47	2503.49	3053.44	3599.42
G	-901.70	-734.29	-1261.47	-1803.49	-2353.44	-2899.42
TEACHERS/1000 WGT. PUPILS						
D	50.00	50.00	50.00	50.00	50.00	50.00
A	44.09	44.43	44.52	44.48	44.62	44.63
G	5.91	5.57	5.48	5.52	5.38	5.37
SECONDARY COURSE OFFERINGS						
D	180.00	180.00	180.00	180.00	180.00	180.00
A	167.00	167.00	167.00	167.00	167.00	167.00
G	13.00	13.00	13.00	13.00	13.00	13.00
INST. SPEC., NURS., PSYCH./1000 WGT. PUPILS						
D	10.00	10.00	10.00	10.00	10.00	10.00
A	9.23	9.16	8.81	8.48	8.16	7.88
G	0.77	0.84	1.19	1.52	1.84	2.12
MATLS., SUPPS., LIP. BKS./WGT. PUPIL						
D	12.00	12.00	12.00	12.00	12.00	12.00
A	8.39	8.97	9.16	10.31	11.27	13.07
G	3.61	3.03	2.84	1.99	0.73	-1.07
NET EXPEND./WGT. PUPIL						
D	900.00	900.00	900.00	900.00	900.00	900.00
A	863.22	888.39	903.25	921.53	945.46	969.25
G	36.78	11.61	-3.25	-21.53	-45.46	-69.25
PROF. STAFF TURNOVER (PCT.)						
D	10.00	10.00	10.00	10.00	10.00	10.00
A	14.00	14.00	14.00	14.00	14.00	14.00
G	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
PROF. STAFF MA OR MORE (PCT.)						
D	30.00	30.00	30.00	30.00	30.00	30.00
A	19.00	19.00	19.00	19.00	19.00	19.00
G	11.00	11.00	11.00	11.00	11.00	11.00
PCT. GRAD. CLASS ATTEND PHSE						
D	70.00	70.00	70.00	70.00	70.00	70.00
A	67.10	67.10	67.10	67.10	67.10	67.10
G	2.90	2.90	2.90	2.90	2.90	2.90
DROPOUTS PCT. ENROLLMENT						
D	1.00	1.00	1.00	1.00	1.00	1.00
A	1.20	1.20	1.20	1.20	1.20	1.20
G	-0.20	-0.20	-0.20	-0.20	-0.20	-0.20
LANGUAGE ACHIEVEMENT						
D	2.00	2.00	2.00	2.00	2.00	2.00
A	1.76	1.76	1.76	1.76	1.76	1.76
G	0.24	0.24	0.24	0.24	0.24	0.24
MATHEMATICS ACHIEVEMENT						
D	1.75	1.75	1.75	1.75	1.75	1.75
A	1.35	1.35	1.35	1.35	1.35	1.35
G	0.40	0.40	0.40	0.40	0.40	0.40

REVENUE FORECAST

REAL ESTATE TAX

	Y1	Y2	Y3	Y4	Y5
DIST. REAL PROPERTY MKT. VALUE	309696768.00	322120960.00	334848256.00	347878656.00	357575680.00
ASSESSMENT RATIO	0.330	0.330	0.330	0.330	0.330
TAXABLE ASSESSED VALUE	102199920.00	106299904.00	110499904.00	114799936.00	117999968.00
REVENUE/MILL	102199.87	106299.87	110499.87	114799.87	117999.94
CY TAX RATE (MILLS)	89.50				
ASSESSED TAX	9146888.00	9513838.00	9889738.00	10274588.00	10560994.00
COLLECTION PERCENT	99.00				
GROSS ASSESSED TAX	9055418.00	9418699.00	9790840.00	10171841.00	10455383.00
ADJUSTMENTS	-268366.00	-261286.00	-254206.00	-247126.00	-246006.00
TOTAL REAL ESTATE TAX AT CY RATE	8787052.00	9157413.00	9536634.00	9924715.00	10215377.00



Page 22 - Final Base Case Basic Instructional Subsidy Revenue Forecast

The Y1-Y5 District Real Property Market Value has already been entered. The Weighted Average Daily Membership has been calculated as indicated in the discussion of page 1. The District Property Market Value per Pupil is calculated as the ratio of District Real Property Market Value and the Weighted Average Daily Membership. The Y1-Y5 State Property Market Value per Pupil is entered. The District/State Ratio is calculated as the ratio of the District Property Market Value per Pupil and the State Property Market Value per pupil. The District Share is calculated as  $1/2$  the District/State Ratio. The Aid Ratio is calculated as  $1$  minus the District Share.

The Y1-Y5 State Subsidy per Pupil is entered. The District Foundation is calculated as the product of the Weighted Average Daily Membership and the State Subsidy per Pupil. The State Share of District Foundation is calculated as the product of the Aid Ratio times the District Foundation. Y1-Y5 Adjustments, representing density and sparsity payments, poverty payments, etc., are entered. The Net State Instructional Subsidy results from applying the Adjustments to the State Share of District Foundation.

## REVENUE FORECAST

## BASIC INSTRUCTIONAL SUBSIDY

	Y1	Y2	Y3	Y4	Y5
DIST. REAL PROPERTY MKT. VALUE	309696768.00	322120960.00	334848256.00	347878656.00	357575680.00
MT. AVRG. DAILY MBRSH.	15772.02	16419.30	17091.05	17770.37	18444.66
DIST. PROPERTY MKT. VALUE/PUPIL	19635.84	19518.44	19592.02	19576.33	19386.41
STATE PROPERTY MKT. VALUE/PUPIL	16275.00	16291.00	16307.00	16323.00	16339.00
DIST./STATE RATIO	1.206503	1.204249	1.201447	1.199309	1.186511
DISTRICT SHARE	0.603251	0.602125	0.600724	0.599655	0.593256
AID RATIO	0.396749	0.397875	0.399276	0.400345	0.406744
STATE SUBSIDY/PUPIL	550.00	550.00	550.00	550.00	550.00
DISTRICT FOUNDATION	8674608.00	9030613.00	9400080.00	9773704.00	10144563.00
STATE SHARE OF DIST. FOUNDATION	3441638.00	3593057.00	3753228.00	3912856.00	4126245.00
ADJUSTMENTS	0.0	0.0	0.0	0.0	0.0
NET STATE INSTRUCTIONAL SUBSIDY	3441638.00	3593057.00	3753228.00	3912856.00	4126245.00

### Page 23 - Final Base Case Total Revenue Forecast

Y1-Y5 Total Other Revenue (revenue from Wage and Income Taxes, Per Capita Taxes, federally connected revenues, etc.), is entered. Total Other Revenue is added to Total Real Estate Tax at CY Rate and Net Instructional Subsidy to obtain Total Revenue at CY Real Estate Tax Rate.

### Page 24 - Final Base Case Revenue Feasibility

Final Base Case Total Cost is subtracted from Total Revenue at CY Real Estate Tax Rate to obtain Surpluses and Deficits at the CY Real Estate Tax Rate. Surpluses at the end of any year are carried forward to the next year in calculating the next year's surplus or deficit.

The Y1-Y5 Real Estate Tax Rate in mills that are necessary to remove the deficits are calculated. Surpluses at the end of any year are carried forward to the next year in calculating the next year's Real Estate Tax Rate. The Total Revenue at Y1-Y5 Real Estate Tax Rates is calculated and any supluses that result from the Y1-Y5 tax rates are exhibited.

## REVENUE FORECAST

## TOTAL REVENUE

	Y1	Y2	Y3	Y4	Y5
TOTAL REAL ESTATE TAX AT CY RATE	8787052.00	9157413.00	9536634.00	9924715.00	10215377.00
NET STATE INSTRUCTIONAL SUBSIDY	3441638.00	3593057.00	3753228.00	3912856.00	4126245.00
TOTAL OTHER REVENUE	1107648.00	1223739.00	1235935.00	1263135.00	1295335.00
TOTAL REVENUE AT CY R.E. RATE	13326338.00	13974209.00	14525797.00	15100706.00	15636957.00

REVENUE FEASIBILITY

	Y1	Y2	Y3	Y4	Y5
TOTAL REVENUE AT CY REAL ESTATE TAX	13336338.00	13974209.00	14525797.00	15100700.00	15636957.00
SURPLUS FROM PRIOR YEAR	0.0	0.0	0.0	0.0	0.0
TOTAL COST	13472749.00	14253995.00	15129159.00	16130521.00	17155952.00
SURPLUS(+), DEFICIT(-) AT CY TAX RATE	-136411.00	-279786.00	-603362.00	-1029815.00	-1518995.00

CY	Y1	Y2	Y3	Y4	Y5
REAL ESTATE TAX RATE (MILLS)	90.85	92.16	95.02	98.56	102.50
YEAR TO YEAR CHANGE	1.35	1.31	2.86	3.55	3.94

	Y1	Y2	Y3	Y4	Y5
TOTAL REVENUE AT Y1-Y5 R.E. TAX RATES	13472748.00	14253994.00	15129157.00	16130519.00	17155936.00
SURPLUS FROM PRIOR YEAR	0.0	0.0	0.0	0.0	0.0
TOTAL COST	13472749.00	14253995.00	15129159.00	16130521.00	17155952.00
SURPLUS AT Y1-Y5 R.E. TAX RATES	0.0	0.0	0.0	0.0	0.0

SUBSIDIARY DATA

	Y1	Y2	Y3	Y4	Y5
REVENUE/MILL	102199.87	106299.87	110499.87	114799.87	117999.94
COLLECT PERCENTAGE	99.00				
COLLECTED REVENUE/MILL	101177.81	105236.81	109394.81	113651.81	116819.87



Page 25 - Operations Project Alternative 1

This page exhibits the manpower and cost consequences of an Operations Project Alternative for Reading Improvement. The manpower and costs are displayed according to the programs affected. When the Operations Project Alternative is combined with the Final Base Case in one or several alternative sets of operations and capital improvement project alternatives, fixed charges salary costs will also be incurred according to the ratio described in the discussion of page 7.

The Y1-Y5 changes in the seven non-calculated indicators shown on page 26 are entered. When the Operations Project alternative is combined with the Final Base Case in one or several alternative sets, these changes in indicator levels will be added to the Final Base Case indicator levels. The other five indicators are calculated by the computer when the operations project alternative is combined with the Final Base Case.

OPERATIONS PROJECT ALTERNATIVE NUMBER 1 READING IMPROVEMENT

CHANGE IN PROGRAM-ELEMENTARY INSTRUCTION

MANPOWER	Y1	Y2	Y3	Y4	Y5
TEACHERS - ELEMENTARY	1.00	1.00	1.00	1.00	1.00
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	10000.00	10700.00	11448.98	12250.40	13107.92
NON-SALARY	0.0	0.0	0.0	0.0	0.0
CAPITAL OUTLAY	0.0	0.0	0.0	0.0	0.0
TOTAL ABOVE	10000.00	10700.00	11448.98	12250.40	13107.92

CHANGE IN PROGRAM-INSTRUCTIONAL SUPPORT SER.

MANPOWER	Y1	Y2	Y3	Y4	Y5
PRINCIPALS	0.0	0.0	0.0	0.0	0.0
INSTRUCTIONAL SPECIALISTS	3.00	3.00	3.00	3.00	3.00
CLERICAL PERSONNEL	0.0	0.0	0.0	0.0	0.0
COSTS	Y1	Y2	Y3	Y4	Y5
SALARY	18000.00	19259.99	20608.16	22050.73	23594.25
NON-SALARY	0.0	0.0	0.0	0.0	0.0
MATLS., SUPPS., LIB. BKS.	3000.00	3090.00	3083.00	3278.00	3376.00
CAPITAL OUTLAY	12000.00	0.0	0.0	0.0	0.0
TOTAL ABOVE	33000.00	22349.99	23691.16	25328.73	26970.25

INDICATOR CHANGES

	Y1	Y2	Y3	Y4	Y5
SECONDARY COURSE OFFERINGS	0.0	0.0	0.0	0.0	0.0
PROF. STAFF TURNOVER (PCT.)	0.0	0.0	0.0	0.0	0.0
PROF. STAFF MA OR MORE (PCT.)	0.50	0.50	0.50	0.50	0.50
PCT. GRAD. CLASS ATTEND PHSE	0.0	0.0	0.0	0.0	0.0
PRODUCTS PCT. ENROLLMENT	0.0	0.0	0.0	0.0	0.0
LANGUAGE ACHIEVEMENT	0.16	0.16	0.16	0.16	0.16
MATHEMATICS ACHIEVEMENT	0.12	0.12	0.12	0.12	0.12

Page 26 - Capital Improvement Project Alternative 1

This page exhibits the manpower and cost consequences of a Capital Improvement Project Alternative. The manpower and costs are displayed according to the programs affected. When the Capital Improvement Project Alternative is combined with the Final Base Case in one or several alternative sets of operations and capital improvement project alternatives, fixed charges salary costs will also be incurred according to the ratio described in the discussion of page 7.

When the Capital Improvement Project Alternative is combined with the Final Base Case, the Capital Improvement Project Alternative's classrooms are included in total classrooms for calculating Excess Enrollment. Also, the Capital Improvement Project Alternative's Additional Revenue is included in the Total Revenue at CY Real Estate Tax Rate.

The Y3-Y5 changes in the seven non-calculated indicators shown on Page 27 are entered. When the Capital Improvement Project Alternative is combined with the Final Base Case, these changes in indicator levels will be added to the Final Base Case indicator levels. The other five indicators are calculated by the computer when the Capital Improvement Project Alternative is combined with the Final Base Case.

CAPITAL IMPROVEMENT PROJECT ALTERNATIVE NUMBER 1 LITTLE ORANGE SCHOOL ADDITION

13. CLASSROOMS BEGINNING Y3

ADDITIONAL REVENUE

	Y3	Y4	Y5
	0.0	0.0	0.0

CHANGE IN PROGRAM-INSTRUCTIONAL SUPPORT SER.

MANPOWER

	Y3	Y4	Y5
PRINCIPALS	0.0	0.0	0.0
INSTRUCTIONAL SPECIALISTS	1.00	1.00	1.00
CLERICAL PERSONNEL	0.0	0.0	0.0

COSTS

	Y3	Y4	Y5
SALARY	8800.00	9416.00	10075.11
NON-SALARY	0.0	0.0	0.0
MATLS., SUPPS., LIB., RKS.	5000.00	0.0	0.0
CAPITAL OUTLAY	0.0	0.0	0.0
TOTAL ABOVE	13800.00	9416.00	10075.11

CHANGE IN PROGRAM-FACILITIES

MANPOWER

	Y3	Y4	Y5
OPERATIONS PERSONNEL	2.00	2.00	2.00
MAINTENANCE PERSONNEL	0.0	0.0	0.0

COSTS

	Y3	Y4	Y5
SALARY	5000.00	5350.00	5724.49
NON-SALARY	4100.00	4223.00	4349.68
CAPITAL OUTLAY	0.0	0.0	0.0
DEBT SERVICE	0.0	0.0	0.0
TOTAL ABOVE	9100.00	9572.99	10074.17

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INDICATOR CHANGES

	Y3	Y4	Y5
SECONDARY COURSE OFFERINGS	3.00	3.00	3.00
PROF. STAFF TURNOVER (PCT.)	0.0	0.0	0.0
PROF. STAFF MA OF MORE (PCT.)	0.0	0.0	0.0
PCT. GRAD. CLASS ATTEND PHSE	0.0	0.0	0.0
DROPOUTS PCT. ENROLLMENT	0.0	-0.20	-0.20
LANGUAGE ACHIEVEMENT	0.0	0.16	0.16
MATHEMATICS ACHIEVEMENT	0.0	0.12	0.12

Page 27 - Alternative Case 1 (Includes Operations Project Alternative 1)

With one Operations Project Alternative and one Capital Improvement Project Alternative three possible alternative sets may be formed: (1) the Operations Project Alternative and not the Capital Improvement Project Alternative, (2) the Capital Improvement Project Alternative and not the Operations Project Alternative, and (3) both the Operations Project Alternative and the Capital Improvement Project Alternative. Only one alternative set is exhibited in this computer print-out. Page 27 shows that the Alternative Set includes Operations Project Alternative 1.

Page 28 - Alternative Case 1 (Includes Capital Improvement Project Alternative 1)

Page 28 shows that the Alternative Set includes Capital Improvement Project Alternative 1.

Page 29 - Alternative Case 1 Program Costs

The program costs are the Final Base Case costs plus the costs shown for the Operations Project Alternative and the Capital Improvement Project Alternative shown on pages 25 and 26. Fixed charges salary costs are also incurred for the Operations Project Alternative and the Capital Improvement Project Alternative salary.

Page 30 - Alternative Case 1 Manpower

The manpower positions are the Final Base Case manpower positions plus the manpower changes shown for the Operations Project Alternative and Capital Improvement Project Alternative on pages 25 and 26. Hires reflect position changes and turnover.



INCLUDES

OPERATIONS PROJECT ALTERNATIVE NUMBER 1 READING IMPROVEMENT

INCLUDES

CAPITAL IMPROVEMENT PROJECT ALTERNATIVE NUMBER 1 LITTLE ORANGE SCHOOL ADDITION



PROGRAM COSTS

	CY	Y1	Y2	Y3	Y4	Y5
POLICY AND EXECUTIVE	S	33170.00	37976.28	40634.59	43478.97	46522.48
	NS	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0
	T	33170.00	37976.28	40634.59	43478.97	46522.48
COMPREHENSIVE PLANNING	S	43360.00	5642.79	53117.75	56835.94	60814.43
	NS	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0
	T	43360.00	5642.79	53117.75	56835.94	60814.43
INFORMATION AND LIAISON	S	26140.00	29927.64	32022.55	34264.10	36662.57
	NS	0.0	0.0	0.0	0.0	0.0
	CO	0.0	0.0	0.0	0.0	0.0
	T	26140.00	29927.64	32022.55	34264.10	36662.57
COMMUNITY SERVICES	S	55583.00	63636.89	68091.37	72857.75	77957.75
	NS	11920.00	12645.91	13025.28	13416.02	13818.50
	CO	0.0	0.0	0.0	0.0	0.0
	T	67503.00	76282.75	81116.62	86273.75	91776.25
COORDINATE SUPPORT SERVICES	S	68080.00	77944.62	83400.75	89238.69	95485.37
	NS	92049.00	97654.62	100584.19	103601.62	106709.62
	CO	0.0	0.0	0.0	0.0	0.0
	T	160129.00	175599.25	183984.94	192840.31	202195.00
EARLY CHILDHOOD INSTRUCTION	S	235946.00	285612.50	294585.69	312939.31	324238.37
	NS	20633.00	25339.58	26200.12	27503.07	28690.26
	CO	0.0	0.0	0.0	0.0	0.0
	T	256579.00	310952.06	320785.75	340442.37	352928.62
ELEMENTARY INSTRUCTION	S	2094176.00	2515063.00	2672185.00	2843028.00	3028232.00
	NS	136125.00	159009.37	168141.37	177652.75	187662.12
	CO	0.0	0.0	0.0	0.0	0.0
	T	2230301.00	2674072.00	2840326.00	3020680.00	3215894.00
SECONDARY INSTRUCTION	S	2642023.00	3188939.00	3467176.00	3779790.00	4111755.00
	NS	182729.00	215024.37	233438.19	252728.37	272857.87
	CO	0.0	0.0	0.0	0.0	0.0
	T	2824752.00	3403963.00	3700614.00	4032518.00	4384612.00
VOC.-TECH. INSTRUCTION	S	0.0	0.0	0.0	0.0	0.0
	NS	112526.00	132628.06	143990.87	155916.19	168427.44
	CO	0.0	0.0	0.0	0.0	0.0
	T	112526.00	132628.06	143990.87	155916.19	168427.44
SPECIAL INSTRUCTION	S	134760.00	201524.75	208871.19	225439.69	243735.75
	NS	7175.00	8434.56	9037.80	9669.65	10331.28
	CO	0.0	0.0	0.0	0.0	0.0
	T	141235.00	209959.31	217908.94	235109.31	254067.00
CONTINUING INSTRUCTION	S	0.0	0.0	0.0	0.0	0.0
	NS	1850.00	1962.66	2021.54	2082.19	2144.65
	CO	0.0	0.0	0.0	0.0	0.0
	T	1850.00	1962.66	2021.54	2082.19	2144.65
INSTRUCTIONAL SUPPORT SER.	S	1593407.00	1915557.00	2058447.00	2202534.00	2356712.00
	NS	238765.00	283657.62	308661.94	324963.81	347071.37

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		CO	85390.00	97390.00	85390.00	85390.00	85390.00	85390.00
		T	1917562.00	2157470.00	2284604.00	2452498.00	2612887.00	2789173.00
NURSING								
		S	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69
		NS	0.0	0.0	0.0	0.0	0.0	0.0
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	161655.00	172970.75	185078.50	198033.87	211896.06	226728.69
MEDICAL								
		S	5670.00	11023.72	12261.58	13634.09	15146.23	16798.87
		NS	7184.00	7878.15	8441.77	9043.87	9678.94	10341.17
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	16854.00	18901.87	20703.35	22677.96	24825.17	27140.04
DENTAL								
		S	3250.00	3704.97	4121.00	4582.29	5090.51	5645.95
		NS	348.00	381.63	408.93	438.09	468.86	500.94
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	3598.00	4086.60	4529.93	5020.39	5559.37	6146.88
PSYCHOLOGICAL								
		S	2000.00	14640.00	15664.79	16761.30	17934.59	19189.99
		NS	0.0	5000.00	5150.00	5304.49	5463.62	5627.52
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	2000.00	19640.00	20814.79	22065.80	23398.21	24817.52
HEALTH SUPPORT SERVICES								
		S	3034.00	3246.38	3473.62	3716.77	3976.94	4255.32
		NS	8362.00	8612.86	8871.23	9137.36	9411.47	9693.82
		CO	1267.00	1267.00	1267.00	1267.00	1267.00	1267.00
		T	12663.00	13126.23	13611.86	14121.13	14655.41	15216.14
GENERAL SERVICES								
		S	52459.00	9231.06	105856.12	113266.00	121194.50	129678.06
		NS	20110.00	20713.29	21334.67	21974.70	22633.91	23312.92
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	112569.00	119644.31	127190.75	135240.69	143828.37	152990.94
PUPIL TRANSPORTATION								
		S	327513.00	350438.44	374968.81	408133.87	458908.00	506871.25
		NS	127878.00	131714.25	135665.56	142230.69	154207.87	164128.50
		CO	750.00	750.00	750.00	8750.00	24750.00	16750.00
		T	456141.00	482902.69	511384.37	559114.56	637865.87	687749.75
FOOD SERVICES								
		S	0.0	0.0	0.0	0.0	0.0	0.0
		NS	3740.00	41013.72	43947.96	47082.51	50388.68	53836.29
		CO	8077.00	8077.00	8077.00	8077.00	8077.00	8077.00
		T	45477.00	49090.72	52024.96	55159.51	58465.68	61913.29
FACILITIES								
		S	711992.00	774481.19	828693.75	891701.81	954120.00	1020907.94
		NS	457874.00	525290.06	540028.06	559308.50	575067.25	591299.12
		CO	32834.00	32834.00	32834.00	32834.00	32834.00	32834.00
		T	1242700.00	1332605.00	1401555.00	1483844.00	1562021.00	1645041.00
FIXED CHARGES								
		S	632710.00	708982.12	759803.00	815972.12	878868.56	945077.31
		NS	54247.00	54247.00	54247.00	54247.00	54247.00	54247.00
		CO	0.0	0.0	0.0	0.0	0.0	0.0
		T	686957.00	763229.12	814050.00	870219.12	933115.56	999324.31
BUSINESS SUPPORT SERVICES								
		S	51310.00	54901.68	58744.73	62856.82	67256.69	71964.62
		NS	39375.00	40556.24	41772.89	43026.04	44316.77	45646.27
		CO	10847.00	10847.00	10847.00	10847.00	10847.00	10847.00
		T	101532.00	106304.87	111364.56	116729.81	122420.44	128457.87
TOTAL ABOVE								
		S	8921538.00	9997266.00	10714484.00	11507185.00	12394793.00	13329226.00
		NS	1596650.00	1716997.00	1796222.00	1896892.00	1993411.00	2096342.00
		CO	139165.00	164165.00	139165.00	147165.00	163165.00	155165.00
		T	10657353.00	11878426.00	12649870.00	13551240.00	14551374.00	15580737.00





## MANPOWER (FULL-TIME EQUIVALENTS)

		CV	Y1	Y2	Y3	Y4	Y5
PROFESSIONAL ADMINISTRATION	P	9.00	9.00	9.00	9.00	9.00	9.00
TURNOVER RATE 2.0	H	0.18	0.18	0.18	0.18	0.18	
PRINCIPALS	P	25.00	25.00	25.00	25.00	25.00	25.00
TURNOVER RATE 5.0	H	1.25	1.25	1.25	1.25	1.25	
TEACHERS - EARLY CHILDHOOD	P	24.00	28.00	28.00	28.00	29.00	29.00
SEE INDICATOR 7	H	7.36	3.92	3.92	4.92	4.06	
TEACHERS - ELEMENTARY	P	239.00	257.00	265.00	272.00	279.00	286.00
SEE INDICATOR 7	H	51.46	43.98	44.10	45.08	46.06	
TEACHERS - SECONDARY	P	307.00	324.00	341.00	359.00	378.00	396.00
SEE INDICATOR 7	H	59.98	62.36	65.74	69.26	70.92	
TEACHERS - VOC.-TECH.	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
TEACHERS - SPECIAL	P	13.00	18.00	19.00	19.00	20.00	21.00
SEE INDICATOR 7	H	6.82	3.52	2.66	3.66	3.80	
TEACHERS - CONTINUING	P	0.0	0.0	0.0	0.0	0.0	0.0
SEE INDICATOR 7	H	0.0	0.0	0.0	0.0	0.0	
INSTRUCTIONAL SPECIALISTS	P	104.00	113.00	113.00	114.00	114.00	114.00
TURNOVER RATE 2.0	H	11.08	2.26	3.26	2.28	2.28	
NURSES	P	18.00	18.00	18.00	18.00	18.00	18.00
TURNOVER RATE 2.0	H	0.36	0.36	0.36	0.36	0.36	
PSYCHOLOGISTS	P	0.0	1.00	1.00	1.00	1.00	1.00
TURNOVER RATE 2.0	H	1.00	0.02	0.02	0.02	0.02	
CLERICAL PERSONNEL	P	75.00	79.00	79.00	79.00	79.00	79.00
TURNOVER RATE 20.0	H	19.00	15.80	15.80	15.80	15.80	
OPERATIONS PERSONNEL	P	134.00	138.50	138.50	140.50	140.50	140.50
TURNOVER RATE 2.0	H	7.18	2.77	4.77	2.81	2.81	
MAINTENANCE PERSONNEL	P	21.00	21.00	21.00	21.00	21.00	21.00
TURNOVER RATE 2.0	H	0.42	0.42	0.42	0.42	0.42	
BUS DRIVERS	P	58.00	58.00	58.00	59.00	62.00	64.00
TURNOVER RATE 15.0	H	8.70	8.70	9.70	11.85	11.30	
FOOD SERVICE PERSONNEL	P	0.0	0.0	0.0	0.0	0.0	0.0
TURNOVER RATE 2.0	H	0.0	0.0	0.0	0.0	0.0	
ADMINISTRATIVE STAFF	P	7.00	7.00	7.00	7.00	7.00	7.00
TURNOVER RATE 2.0	H	0.14	0.14	0.14	0.14	0.14	
TOTAL POSITIONS		1034.00	1096.50	1122.50	1151.50	1182.50	1210.50
TOTAL HIRES		174.53	145.68	152.32	158.03	159.40	

## Page 31 - Alternative Case 1 Indicators

The following indicators are calculated as discussed on page 5: Excess Enrollment; Teachers per 1000 Weighted Pupils; Instructional Specialists, Nurses, and Psychologists per 1000 Weighted Pupils; Materials, Supplies, and Library Books per Weighted Pupil; and Net Expenditure per Weighted Pupil.

For Secondary Course Offerings, Professional Staff Turnover, Professional Staff with an MA or More, Percent of Graduating Class Attending Post High School Education, Dropouts as a Percentage of Enrollment, Language Achievement, and Mathematics Achievement, the indicator levels were derived by adding the changes in indicators of the Operations Project Alternative and the Capital Improvement Project Alternative to the Final Base Case indicator levels.

Classrooms are the Final Base Case classrooms plus the classrooms of the Capital Improvement Project Alternative. Expenditures for materials, supplies, and library books are the Final Base Case expenditures plus the expenditures for the materials, supplies, and library books of the Operation Project Alternative and the Capital Improvement Project Alternative.

## INDICATORS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT	1601.70	1434.29	1961.47	2178.49	2728.44	3274.42
TEACHERS/1000 WGT. PUPILS	44.09	44.50	44.59	44.55	44.68	44.69
SECONDARY COURSE OFFERINGS	167.00	167.00	167.00	170.00	170.00	170.00
INST. SP=C., NURS., PSYCH./1000 WGT. PUPILS	9.23	9.37	9.01	8.74	8.42	8.12
MATLS., SUPPS., LIB. BKS./WGT. PUPIL	8.39	9.17	9.36	10.51	11.47	13.26
NET EXPEND./WGT. PUPIL	863.22	891.40	905.51	925.32	949.03	972.92
PROF. STAFF TURNOVER (PCT.)	14.00	14.00	14.00	14.00	14.00	14.00
PROF. STAFF MA OR MORE (PCT.)	19.00	19.50	19.50	19.50	19.50	19.50
PCT. GRAD. CLASS ATTEND PHSE	67.10	67.10	67.10	67.10	67.10	67.10
DROPOUTS PCT. ENROLLMENT	1.20	1.20	1.20	1.20	1.00	1.00
LANGUAGE ACHIEVEMENT	1.76	1.92	1.92	1.92	2.08	2.08
MATHEMATICS ACHIEVEMENT	1.35	1.47	1.47	1.47	1.59	1.59

## SUBSIDIARY DATA

CLASSROOMS	442.00	482.00	482.00	495.00	495.00	495.00
MATLS., SUPPS., LIB. BKS.	118381.00	137819.44	146370.25	170930.50	193721.06	232386.25

### Page 32 - Alternative Case 1 Indicator Gaps

CY-Y5 desired indicator levels are entered for each of the twelve indicators. The indicator levels on page 31 are subtracted from the desired indicator levels to obtain the indicator gaps.

### Page 33 - Alternative Case 1 Revenue Feasibility

The Total Revenue at CY Real Estate Tax Rate is the Final Base Case figures plus the Additional Revenue of the Capital Improvement Project Alternative. The calculations of the Y1-Y5 Real Estate Tax Rates and other data are done as explained in the discussion of page 24.

INDICATOR GAPS

	CY	Y1	Y2	Y3	Y4	Y5
EXCESS ENROLLMENT						
D	700.00	700.00	700.00	700.00	700.00	700.00
A	1601.70	1434.29	1961.47	2178.49	2728.44	3274.42
G	-901.70	-734.29	-1261.47	-1478.49	-2028.44	-2574.42
TEACHERS/1000 WGT. PUPILS						
D	50.00	50.00	50.00	50.00	50.00	50.00
A	44.09	44.50	44.59	44.55	44.68	44.69
G	5.91	5.50	5.41	5.45	5.32	5.31
SECONDARY COURSE OFFERINGS						
D	180.00	180.00	180.00	180.00	180.00	180.00
A	167.00	167.00	167.00	170.00	170.00	170.00
G	13.00	13.00	13.00	10.00	10.00	10.00
INST. SPEC., NURS., PSYCH./1000 WGT. PUPILS						
D	10.00	10.00	10.00	10.00	10.00	10.00
A	9.23	9.37	9.01	8.74	8.42	8.12
G	0.77	0.63	0.99	1.26	1.58	1.88
MATLS., SUPPS., LIB. BKS./WGT. PUPIL						
D	12.00	12.00	12.00	12.00	12.00	12.00
A	8.39	9.17	9.36	10.51	11.47	13.26
G	3.61	2.83	2.64	1.49	0.53	-1.26
NET EXPEND./WGT. PUPIL						
D	900.00	900.00	900.00	900.00	900.00	900.00
A	863.22	891.40	905.51	925.32	949.03	972.92
G	36.78	8.60	-5.51	-25.32	-49.03	-72.92
PROF. STAFF TURNOVER (PCT.)						
D	10.00	10.00	10.00	10.00	10.00	10.00
A	14.00	14.00	14.00	14.00	14.00	14.00
G	-4.00	-4.00	-4.00	-4.00	-4.00	-4.00
PROF. STAFF MA OR MORE (PCT.)						
D	30.00	30.00	30.00	30.00	30.00	30.00
A	19.00	19.50	19.50	19.50	19.50	19.50
G	11.00	10.50	10.50	10.50	10.50	10.50
PCT. GRAD. CLASS ATTEND PHSE						
D	70.00	70.00	70.00	70.00	70.00	70.00
A	67.10	67.10	67.10	67.10	67.10	67.10
G	2.90	2.90	2.90	2.90	2.90	2.90
DROPOUTS PCT. ENROLLMENT						
D	1.00	1.00	1.00	1.00	1.00	1.00
A	1.20	1.20	1.20	1.20	1.00	1.00
G	-0.20	-0.20	-0.20	-0.20	0.00	0.00
LANGUAGE ACHIEVEMENT						
D	2.00	2.00	2.00	2.00	2.00	2.00
A	1.76	1.92	1.92	1.92	2.08	2.08
G	0.24	0.08	0.08	0.08	-0.08	-0.08
MATHEMATICS ACHIEVEMENT						
D	1.75	1.75	1.75	1.75	1.75	1.75
A	1.35	1.47	1.47	1.47	1.59	1.59
G	0.40	0.28	0.28	0.28	0.16	0.16



## REVENUE FEASIBILITY

	Y1	Y2	Y3	Y4	Y5
TOTAL REVENUE AT CY REAL ESTATE TAX	13336338.00	1397209.00	14525797.00	15100706.00	15636957.00
SURPLUS FROM PRIOR YEAR	0.0	0.0	0.0	0.0	0.0
TOTAL COST	13517890.00	14289334.00	15190704.00	16190838.00	17220192.00
SURPLUS(+), DEFICIT(-) AT CY TAX RATE	-181552.00	-315125.00	-664907.00	-1090132.00	-1583235.00

	CY	Y1	Y2	Y3	Y4	Y5
REAL ESTATE TAX RATE (MILLS)	89.50	91.29	92.49	95.58	99.09	103.05
YEAR TO YEAR CHANGE		1.79	1.20	3.08	3.51	3.96

	Y1	Y2	Y3	Y4	Y5
TOTAL REVENUE AT Y1-Y5 R.E. TAX RATES	13517898.00	14289333.00	15190703.00	16190836.00	17220176.00
SURPLUS FROM PRIOR YEAR	0.0	0.0	0.0	0.0	0.0
TOTAL COST	13517890.00	14289334.00	15190704.00	16190838.00	17220192.00
SURPLUS AT Y1-Y5 R.E. TAX RATES	0.0	0.0	0.0	0.0	0.0

## SUBSIDIARY DATA

	Y1	Y2	Y3	Y4	Y5
REVENUE/MILL	102199.87	106299.87	110499.87	114799.87	117999.94
COLLECT PERCENTAGE	99.00				
COLLECTED REVENUE/MILL	101177.81	105236.81	109394.81	113651.81	116819.87

In order to preserve the consistent placement of figures, tables, and charts in this manual, this page has been left blank.

## Annotated List of Sample School District

### Input Data Cards

The following eighteen pages contain the data input as shown on the "IBM General Purpose Card Punching Form" for the preceding "Sample School District Computer Print-out". Each line represents a punch card. The data is key punched from the form to data cards. The data is then read from the cards into the computer. Please note that behind each annotated page is a duplicate page which contains the same data as the preceding page without the annotation. This second page is provided to show you the exact location of the data on each line.

PUNCHING AND CUTTING

JOB	VERSION II, MODEL I OF EPPBS - SCHOOL DISTRICT
BY	JOHN BROWN
	DATE 2/7/69

WRITTEN AS
PUNCH AS

**NOTES:**

FIELD IDENTIFICATION																													
1-10			11-20			21-30			31-40			41-50			51-60			61-70			71-80								
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

11 DING DONG SCHOOL DISTRICT FEB. 7, 1969

2 7.0 3.0 3.0

3 442 118381 9901201

1 1123 6036 5725

5	1279	6465	6033
---	------	------	------

6	1300	6646	6350
---	------	------	------

1	1305	6693
1	6823	6693

1 1330 6999 7035

9	1347	7178	7374
---	------	------	------

0	9	25	24	239	307	0	13
---	---	----	----	-----	-----	---	----

1 2 5

2 33170

3 43360

4 26140

5 55583 11920

6	68080	92049
---	-------	-------

1 235946 20633

8 2094176 136125

9 2642023 182729

0 112626

[illegible]

## FIELD IDENTIFICATION

**School District Title and other computer run information**

**Inflation Percents**

**CY Classrooms, CY Expenditures for Curriculum Materials, Supplies and Library**

~~Books. Attendance percent. 5 options.~~

3

## 7 Manpower

### Non-teacher

## 2 Turnover percent

CY Salary Cost

By Program

**←CY Non-Salary Cost**

## Capital Outlay Cost

5A

七五

3A

27

**Y**

136125

182729

112626



[illegible]

**FIELD IDENTIFICATION**

CY Salary Cost

**CY-Y5 "Uncalculatable"  
Indicator Levels**

## PUNCHING INSTRUCTIONS

JOB VERSION II, MODEL I OF EPPPS - SCHOOL DISTRICT	
BY JOHN BROWN	DATE 2/7/69

[illegible]

## NOTES:

## FIELD IDENTIFICATION

[illegible][illegible]

**IBM** GENERAL PURPOSE CARD PUNCHING FORM

## PUNCHING INSTRUCTIONS

JOB		VERSION II, MODEL I OF EPPBS - SCHOOL DISTRICT
BY	JOHN BROWN	DATE 2/7/69

[illegible]

## NOTES:

### **FIELD IDENTIFICATION**

[illegible][illegible]

16	7000	7006	7000	7006	CY	Entering Salary/Teacher by Instruction Program
----	------	------	------	------	----	--

17 ~~5.0~~ Inflation Percent on Entering Salary/Teacher

	Riding Percent	CY Buses	Seats/Bus Morning	CY Departing Trips/Day/Bus	Salary/Teacher by Instruction Program
18	80.81	7200	7074	8476	Y1-Y5 Capital Outlay/Bus
19	78	56	66	3	8000 8000 8000 8000

205 Number of FBC Operations or Capital Improvement Project







[illegible]

## FIELD IDENTIFICATION

# LITTLE RED SCHOOL ADDITION

13

	5.	5.	5.	5.	5.	3600
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—

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717

13211

14	5	5	5	5	5	3600
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161

81

20-13

BY	JOHN BROWN	DATE	2/7/69
----	------------	------	--------

PUNCH AS:									
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NOTES:

FIELD IDENTIFICATION

FIELD IDENTIFICATION																			
1-10		11-20		21-30		31-40		41-50		51-60		61-70		71-80					
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

1 2 Changes Two Programs

2 / 2 / Instructional Support Services Program Change Beginning Y1

3 Principals

4 / / / / 8800 Instructional Specialists

5 Clerical Personnel

6 / No Non-Salary Costs Other Than Curr. Mat'l., Supp's., Lib. Bks.

8 5000 Y1-Y5 Curr. Mat'ls., Supp's., Lib. Bks.

9 2 / Facilities Program Change Beginning Y1

10 2 2 2 2500 Operations Personnel

11 Maintenance Personnel

12 / Input First Year Non-Salary Cost and Inflate to Y5

13 4100 First Year Non-Salary Cost No Capital Outlays

14 No Debt Service

15 LITTLE YELLOW SCHOOL ADDITION Title of Capital Improvement Project

16 / 12 Adds Twelve Classrooms Beginning Y1

17 / Changes One Program

18 2 / Facilities Program Change Beginning Y1

19 1.5 1.5 1.5 1.5 2700 Operations Personnel

Maintenance Personnel



JOB		VERSION II, MODEL I OF EPPBS - SCHOOL DISTRICT
BY	JOHN BROWN	DATE 2/7/69

[illegible]

**NOTES:**

### **FIELD IDENTIFICATION**

1-10										11-20										21-30										31-40										41-50										51-60										61-70										71-80									
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0																				

1 / Input First Year Non-Salary Cost and Inflate to Y5

2 4000 First Year Non-Salary Cost

## No Capital Outlays

## No Debt Service

(SPECIAL LEARNING LABORATORY

5 / 0 Adds No Classrooms

6 3 Changes Three Programs

7/01 Special Instruction Program Change Beginning Y1

8 4 4 4 4 4 4 1000 Teachers-Special

13000 No Non-Salary Cost but \$13,000 Capital Outlay in Y1

# Instructional Support Services Program Change Beginning Y11/21 /

## 2 Principals

3	5	5	5	5	8500	Instructional Specialists
3	5	5	5	5	8500	Instructional Specialists

	4	4	4	4	4000	Clerical Personnel
11	4	4	4	4	4000	Clerical Personnel

16 No Non-Salary Costs

## No Capital Outlays

18 / 6 / Psychological Program Change Beginning Y1

19 / / / 12500 Psychologists

00 / Input First Year Non-Salary Cost and Inflate to Y5

[illegible]

### **FIELD IDENTIFICATION**

201



JOB	VERSION II, MODEL I OF EPPBS - SCHOOL DISTRICT
BY	JOHN BROWN
	DATE 2/7/69

[illegible]

**NOTES:**

FIELD IDENTIFICATION															
1-10		11-20		21-30		31-40		41-50		51-60		61-70		71-80	
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8
4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2
8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3
9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
												</			

1-5000 First Year Non-Salary Cost

### No Capital Outlays

230969696932212121233484848434787878735757575757 X1 - Y5 District Real Property Mict - Value

	Y1 - Y5 Assessment Ratio
1	.33
3	.33

4 89.5 99 CY Real Estate Tax Rate in Mills, Collection Percent

	Adjustments to Gross Assessed			
5	-268366	-261286	-254206	-247126
				Y1 - Y5
				Real Estate Tax

	Y1 - Y5	State Real Property	Mict. Value/Pupil
6	16275	16307	16339

	Y1 - Y5 State Subsidy/Pupil
7	\$50 \$50 \$50 \$50 \$50
	\$50 \$50 \$50 \$50 \$50

	Y1 - Y5 Adjustments to State Share of District Foundation	Revenue other than Real Estate Tax
8		
9	1107648	1223739
	1235935	1263135
	1295335	Y1 - Y5 and Net Instructional Subsidy

10 /	Number of Operations Project Alternatives
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
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95	95
96	96
97	97
98	98
99	99
100	100

## READING-IMPROVEMENT

**12 2 Change Two Programs**

13 7 / Elementary Instruction Program Change Beginning Y1

**Teachers-Elementary**

15 / No Non-Salary Costs

## No Capital Outlays

17 / 2 / Instructional Support Services Program Change Beginning Y1

## Principals

19	3	3	3	3	6000	Instructional Specialists
	3	3	3	3	3	

**Clerical Personnel**



[illegible]

**FIELD IDENTIFICATION**

1 /						
2	12000					
3	3000	3090	3083	3278	3376	Y1 - Y5 Curr. Mat'ls., Supp's., Lib. Bks.

2

3	3000	3090	3083	3278	3376	Y1 - Y5 Curr. Mat'ls., Supp's., Lib. Bks.
---	------	------	------	------	------	---

75

86	.5	.5	.5	.5	Y1 - Y5 "Uncalculatable"
					Indicator Changes

97

108

119 6TT .16 91 .16 91 .16

120	.12	.12	.12
-----	-----	-----	-----

## 11 / Number of Capital Improvement Project Alternatives

12LITTLE ORANGE SCHOOL ADDITION

13 3 / 3 Adds Thirteen Classrooms Beginning Y3

14 **No Additional Revenue Y3 - Y5**

## 15 2 Changes in One Programs

16 / 23  
Instructional Support Services Program Change Beginning Y3

17  
Principals

18 / / 8800 Instructional Specialists

**19 Clerical Personnel**

20 /



[illegible][illegible]

## NOTES:

FIELD IDENTIFICATION																																							
1-10					11-20					21-30					31-40					41-50					51-60					61-70					71-80				
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**No Non-Salary Cost other than Curr. Mat'l's., Supp's., Lib. Bks. No Capital Outlays**

2 2 5000

32/3 Facilities Program Change Beginning Y3

Category	Count	Percentage	Operations Personnel
1	2	2	2,500
2	2	2	2,500

## 5 Maintenance Personnel

6 / Input First Year (Y3) Non-Salary Cost and Inflate to Y5

	First Year (Y3)	Non-Salary Cost
7	4100	

## 8 No Debt Service

m m m m

10

**Y3 - Y5 "Uncalculatable"**

### Indicator Changes

3      - .2      - .2

91.16

$$5 \underline{.12} \quad .12$$
6      Number of Alternative Sets to be Formed

**7.1 Alternative Set 1 Includes 1 Operations Project Alternative**

~~8 - 1 It is Operations Project Alternative Number 1~~

9 / Alternative Set 1 Includes 1 Capital Improvement Project Alternative

**0 / It is Capital Improvement Project Alternative Number 1**



[illegible]

**FIELD IDENTIFICATION**

[illegible]

Suggested Work Schedule for Preparation, Processing  
and Evaluation of Data

Table 1 has been prepared to assist, if desirable, in transferring the data from the computer print-outs to the forms and worksheets from the Education-Planning-Programming-Budgeting System Manual for School Districts, Version I, Model 2. The use of these forms and worksheets may be helpful in explaining the results of the EPPB System to the school board and citizens.

TABLE 1

Computer Print-Out Page Numbers and Related  
Forms and Worksheets

<u>Print-Out Page</u>	<u>Forms and/or Worksheet</u>
1. Enrollment Forecast	Form #2: Enrollment Forecast Analysis
2. Non-Salary Costs held Constant	None
3. Base Case - Program Costs	Form #5.1: Base Case - Program Summary Worksheet #5.1
4. Base Case - Manpower	Form #13: Manpower Requirements - Final Base Case (Listings on this form will be compressed because of fewer manpower types in the batch-process version.)
5. Base Case - Indicators	Form #6: Calculations and Projections of Indicators for Base Cases - Detail Worksheet #6.13

- |   |  |
|---|--|
| 6. Base Case - Indicator Gaps                                     | Form #25: Calculations and Projections of Indicators - Detail (No form has been provided to record indicator gaps; however, Form #25 can be adapted for this purpose.) |
| 7. Adjusted Base Case - Subsidiary Data                           | Worksheets #7.1, #7.2 and #7.3 (Form #7: Adjusted Base Case - Program and Project Summary)   |
| 8. Adjusted Base Case - Program Costs                             | Form #7.1: Program Summary Worksheet #7.4  |
| 9. Adjusted Base Case - Manpower                                  | Form #13: Manpower Requirements - Final Base Case  |
| 10. Adjusted Base Case - Indicators                               | Form #6: Calculation and Projection of Indicators for Base Cases - Detail<br>Worksheet #6.13   |
| 11. Adjusted Base Case - Indicator Gaps                           | Form #25: Calculation and Projection of Indicators - Detail  |
| 12. to  |  |
| 16. Final Base Case - Operations and Capital Improvement Projects | Form #10.1: Project - Detail<br>Form #8: Capital Improvement Project<br>Worksheet #8.3   |
| 17. Final Base Case - Program Costs                               | Form #12.1: Final Base Case - Program Summary or Form #10: Program - Detail (A separate Form #10 will be required for each program.)                                   |
| 18. Final Base Case - Manpower                                    | Form #13: Manpower Requirements - Final Base Case  |
| 19. Final Base Case - Indicators                                  | Form #6: Calculation and Projection of Indicators for Base Cases - Detail<br>Worksheet #6.13   |
| 20. Final Base Case - Indicator Gaps                              | Form #25: Calculation and Projection of Indicators - Detail  |

. Final Base Case - Real Estate  
Tax Revenue Forecast

Worksheet #14.1: Real Estate  
Tax Projections (Form #14  
Revenue Forecast)

. Final Base Case - Basic  
Instructional Subsidy  
Revenue Forecast

Worksheet #14.4: Basic In-  
structional Subsidy (Form  
#14: Revenue Forecast)

. Final Base Case - Total  
Revenue Forecast

Form #14: Revenue Forecast

. Final Base Case - Revenue  
Feasibility

Form #15: Financial Feasi-  
bility - Final Base Case  
Worksheet #15.1

. Operations Project  
Alternative(s)

Form #16: Operations Project  
Alternative - Proposed  
Worksheet #16.1

Form #25 - Calculation and  
Projection of Indicators -  
Detail

Worksheet #25.13

Form #26: Manpower Require-  
ments (Listings on this form  
will be compressed because of  
fewer manpower types in the  
batch-process version.)

. Capital Improvement Project  
Alternative(s)

Form #16.1: Operations Project  
Alternative - Proposed  
Worksheet #16.1

Form #25: Calculation and  
Projection of Indicators -  
Detail

Worksheet #25.13

Form #26: Manpower Require-  
ments

. and  
Alternative Case

(More pages may be required  
for more operations and  
capital improvement projects.)

Alternative Case Program  
Costs

Form #23: Program - Detail  
(One Form #23 for each program.)  
Form #24.1: Program Summary  
Worksheet #24.1

30. Alternative Case - Manpower

Worksheet #19.2 (Form #19:  
Proposed Alternative Program  
and Project Set)  
Form #26: Manpower Require-  
ments

31. Alternative Case - Indicators

Worksheet #19.1 (Form #19:  
Proposed Alternative Program  
and Project Set)  
Form #25: Calculation and  
Projection of Indicators -  
Detail  
Worksheet #25.13

32. Alternative Case - Indicator  
Gaps

Form #25: Calculation and  
Projection of Indicators -  
Detail

33. Alternative Case - Revenue  
Feasibility

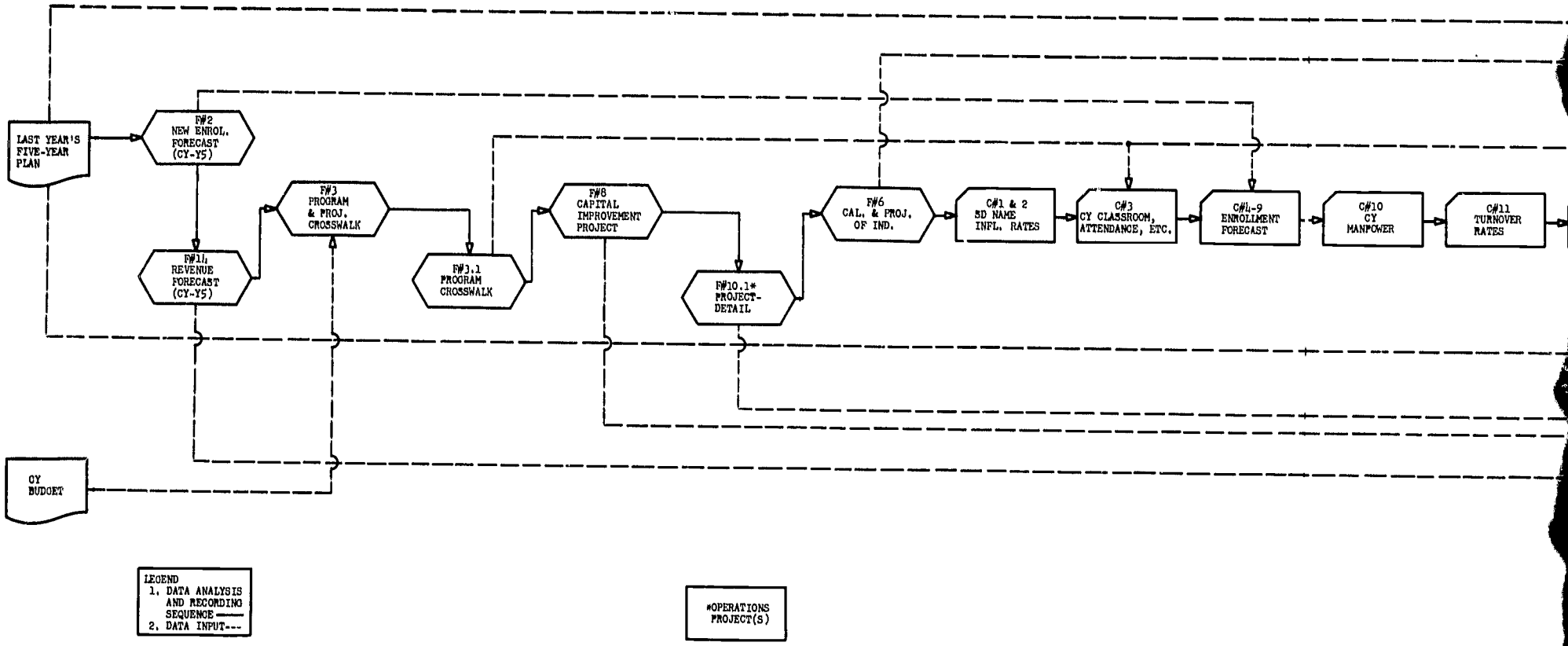
Form #20: Financial Feasi-  
bility - Proposed Alternative  
Program and Project Set  
Worksheet #20.1



The work schedule contained in this section is illustrated in Chart 1 and has been prepared to assist in completing the EPPB System. The schedule was developed on the assumption that key top administrative officers of the school district have been thoroughly trained in the use of the manual version (EPPBS, Version I, Model 2) and the semi-automated batch-process version (EPPBS, Version II, Model 1).

#### August

1. The school district superintendent meets with his staff to discuss the work schedule for the coming EPPBS Cycle. The assignment of responsibilities for completing the various tasks is made at this time. Manuals, extra forms and worksheets are handed out.
2. Specialized training sessions are established for staff members who did not participate in previous training sessions and for clerks who will be assigned certain data gathering and analysis tasks.
3. Data files are examined and brought up-to-date. See Appendix C of the Education-Planning-Programming-Budgeting System Procedures Manual for School District, Version I, Model 2 for suggested files and file content.



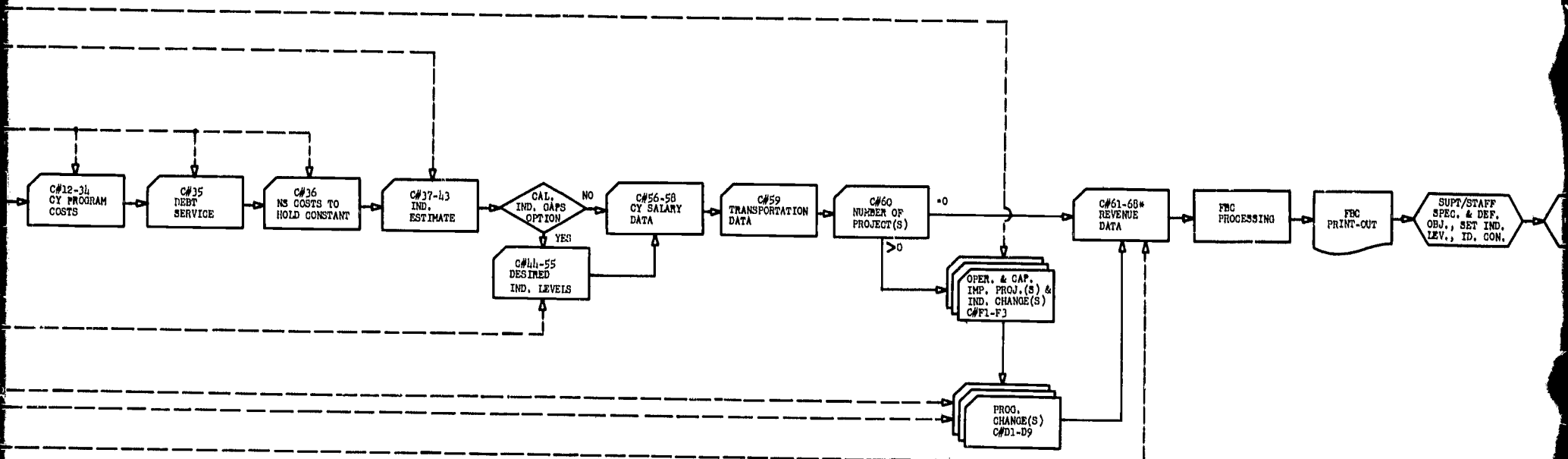
869

# CHART 1

## SUGGESTED WORK SCHEDULE FOR THE EDUCATION-PLANNING-PROGRAMMING-BUDGETING SYSTEM

INPUT DATA GATHERING BY CARD IS SHOWN AND HOW IT RELATES TO THE PREDEFINED PROGRAM (EPPBS, VERSION I, MODEL 2) OVER A SEVEN MONTH PERIOD FOR ANNUAL

ER OCTOBER



\*INCLUDE CARD NUMBERS 69-71 MARKED WITH ZEROS FOR FBC PROCESSING.

866

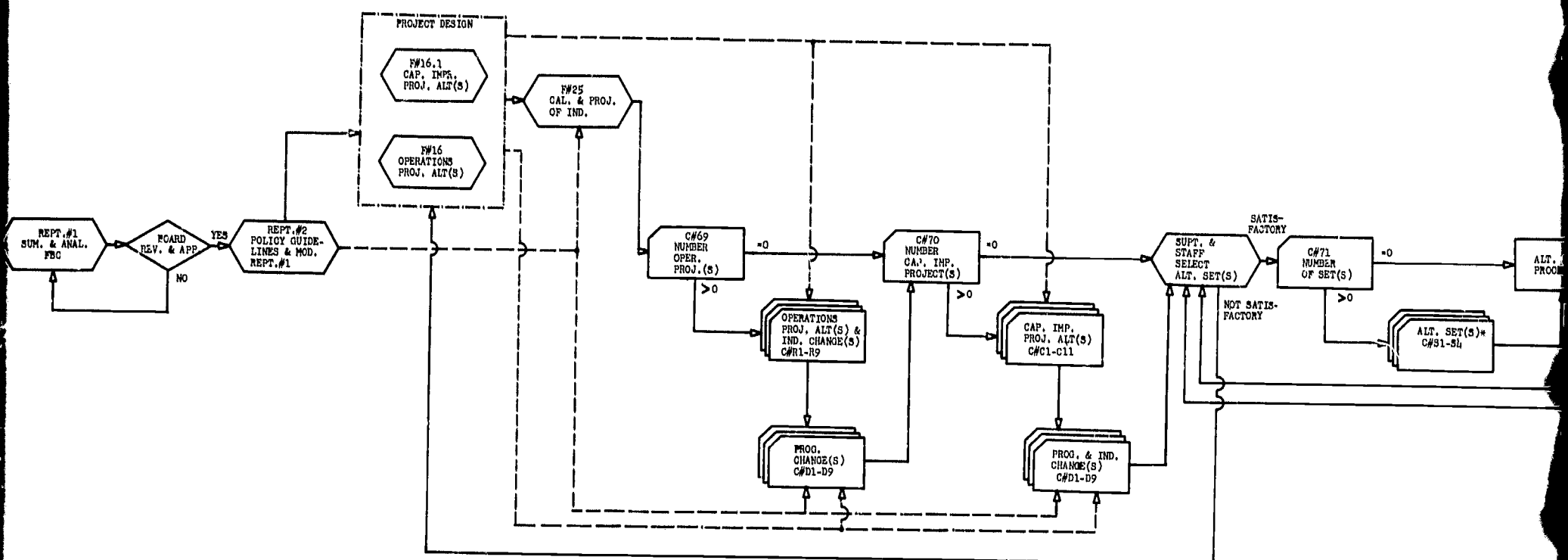
86e

# SYSTEM, VERSION II, MODEL I - SCHOOL DISTRICT

## PROCESSES OF THE MANUAL SYSTEM ANNUAL CYCLING

ER NOVEMBER

DECEMBER



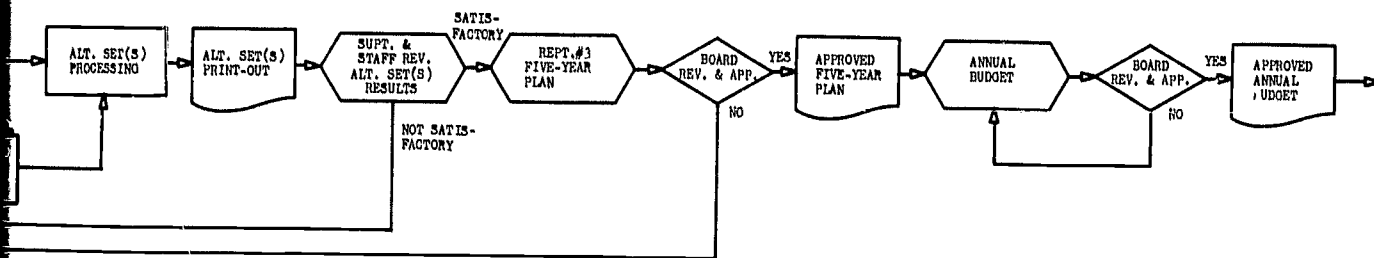
\*INCLUDE FBC CARDS, CARD NUMBERS 69-71, OPERATIONS PROJ. ALT(S), PROGRAM CHANGE CARD SET(S), CAP. IMP. PROJ. ALT(S), CAPITAL IMPROVEMENT PROJ. ALT(S), AND PROGRAM CHANGE CARD SET(S).  
\*INCLUDE FBC CARDS, CARD NUMBERS 69-71, OPERATIONS PROJ. ALT(S), PROGRAM CHANGE CARD SET(S), CAP. IMP. PROJ. ALT(S), CAPITAL IMPROVEMENT PROJ. ALT(S), AND PROGRAM CHANGE CARD SET(S).

86d

JANUARY

FEBRUARY

MARCH



8-71, OPERATIONS PROJECT  
CHANGE CARD SET(S) FOR  
IMPROVEMENT PROJECT  
AM CHANGE CARD SET(S)  
BEFORE PROCESSING

CIG / 4-30-69  
GOVERNMENT STUDIES CENTER  
FEL'S INSTITUTE OF LOCAL & STATE GOVERNMENT  
UNIVERSITY OF PENNSYLVANIA  
USOE CONTRACT #67-4280

86e



September

1. The following forms and cards are completed during this period:
  - a. Form #2: New Enrollment Forecast
  - b. Form #3: Program and Project Crosswalk
  - c. Form #3.1: Program Crosswalk
  - d. Form #6: Calculations and Projections of Indicators for Base Cases - Detail
  - e. Form #8: Capital Improvement Project
  - f. Form #10.1: Project - Detail
  - g. Form #14: Revenue Forecast
  - h. Card Numbers 1 through 71, Operations Project Card Set(s), Capital Improvement Project Card Set(s), and Program Change Card Sets. (A set is required for each operations and capital improvement project.)
2. The following forms may also be completed, because they can be used in Report #3:
  - a. Form #10: Program - Detail
  - b. Form #11: Program - Review
  - c. Form #11.1: Project - Review
3. The Final Base Case data will be processed and a print-out produced for inspection by the superintendent and his staff. If the results are not satisfactory, the data can be modified and run again. This portion of the EPPBS Cycle will be completed when a satisfactory run has been achieved.

#### Early to Mid-October

1. The school district superintendent and staff specify and define the objectives of the school district. These objectives should be based on the problems revealed in the analysis and summarization of the Final Base Case. The setting of desired indicator levels will be based on the same information and data. If desired levels have been set previously, these levels should be re-examined.
2. Constraints are identified during this period.
3. The first step should be taken to identify feasible solutions or courses of action to resolve the problems identified in the analysis and summarization of the Final Base Case.
4. Development of the format of Report #1: Analysis and Summarization of the Final Base Case concludes this work period.

#### Mid to Late-October

1. Report #1: Analysis and Summarization of the Final Base Case is prepared for presentation to the school district board of school directors.
2. It may be desirable at this point to translate the data from the computer print-out to the forms in the Education-Planning-Programming-Budgeting System Procedures Manual, Version I, Model 2 for School Districts. Table 1 has been prepared to assist you in this task.

#### Early to Mid-November

1. Report #1 should be presented to the board of school directors for review and approval. The report provides an excellent analysis of the status of the school district and the implications of its present level of effort for the next five years.
2. Report #2: Policy Guidelines is prepared by the school district superintendent, following the approval of Report #1, and should be disseminated among the board members and staff of the school district.

### Mid-November to Late-December

1. The design of Operations and Capital Improvement project alternatives, development of alternative program and project sets, and completion of revenue estimates should be accomplished during this period. The selection of alternative program and project sets may necessitate the redesign of projects or the design of new projects.
2. The following forms and cards should be completed during this period:
  - a. Form #16: Operations Project Alternative - Proposed
  - b. Form #16.1: Capital Improvement Project Alternative - Proposed
  - c. Form #25: Calculation and Projection of Indicators - Detail
  - d. Card numbers 1 through 68 should be modified, where necessary, if changes have occurred in Report #1 as a result of board deliberations.
  - e. Card numbers 69 through 71, Operations Project Alternative Card Set(s), Program Change Card Set(s) for Operations Project Alternative(s), Capital Improvement Project Alternatives Card Set(s), Program Change Card Set(s) for Capital Improvement Project Alternative(s), and Alternative Card Set(s) for various combinations or Alternative Sets of Operations and Capital Improvement Projects.
  - f. The Final Base Case set of cards (card numbers 1 through 71) must be run with cards numbers 69 through 71 and the alternative sets of Operations and Capital Improvement Projects.
3. Selected alternative sets will be run during this period and computer print-outs will be produced.

### Early January to Mid-January

1. Examination of all feasible Program and Project Sets and the selection of the "preferred" set takes place during this period.

2. It may be necessary to form several new sets and run these sets. This part of the cycle is completed when a "preferred" set of programs and projects is selected.

#### Mid to Late-January

1. The preparation of the school district's Report #3: Five-Year Plan is completed during this period.
2. It may be desirable to use the forms from the manual version in preparing and presenting Report #3. If this is desirable, refer to Table 1 for information on the forms that are keyed to the computer print-out.

#### Early to Mid-February

1. Review and approval of Report #3 should take place during this period. Copies of this report should be disseminated among the board and staff.
2. The board may ask for the formation and processing of several new program and project sets. This portion of the cycle will be completed when the board has accepted a preferred set of programs and projects.

#### Mid to Late-February

1. The annual budget is prepared.
2. The annual budget is reproduced for the board.

#### Early to Mid-March

1. The school district's annual budget should be approved during this period; however, the delay of budget approval will not affect the general timing of the EPPBS Cycle.
2. If changes occur in the annual budget that have a serious impact on the Five-Year Plan, the plan should be modified to reflect these changes.

## Instructions for Recording Input Data on Cards

See Chart 2 for the flow of the steps for completing the input data cards. Each card mentioned in Chart 1 is described in detail below.

Use the IBM General Purpose Card Punching Form (X20-8030-03UM/025), to record the data. A copy of this form may be found in Appendix A. Fill in the title of the program, Version II, Model 1 of EPPBS - School District. Record your name and the date the data was entered on the form. Fill in the page number and the total number of pages. Refer to the "Annotated List of Sample School District Input Data Cards" Section before filling out this form.

Right-justify all entries on the cards. If a number 12769 is to be recorded in a set of 8 columns, make sure the last digit (9) appears in the last column: record 12769 in as 1 2 7 6 9. (Each dash represents a cell on the form.) If you wish to record the number elsewhere in the set of 8 columns, you must use a decimal point - 12769 may be recorded in as 1 2 7 6 9 . . If the decimal had been left off in the above example, 1276900 would have been recorded instead of 12769.

Blank fields are assumed to contain a zero, although you may record the zero if you wish.

### Card Number 1

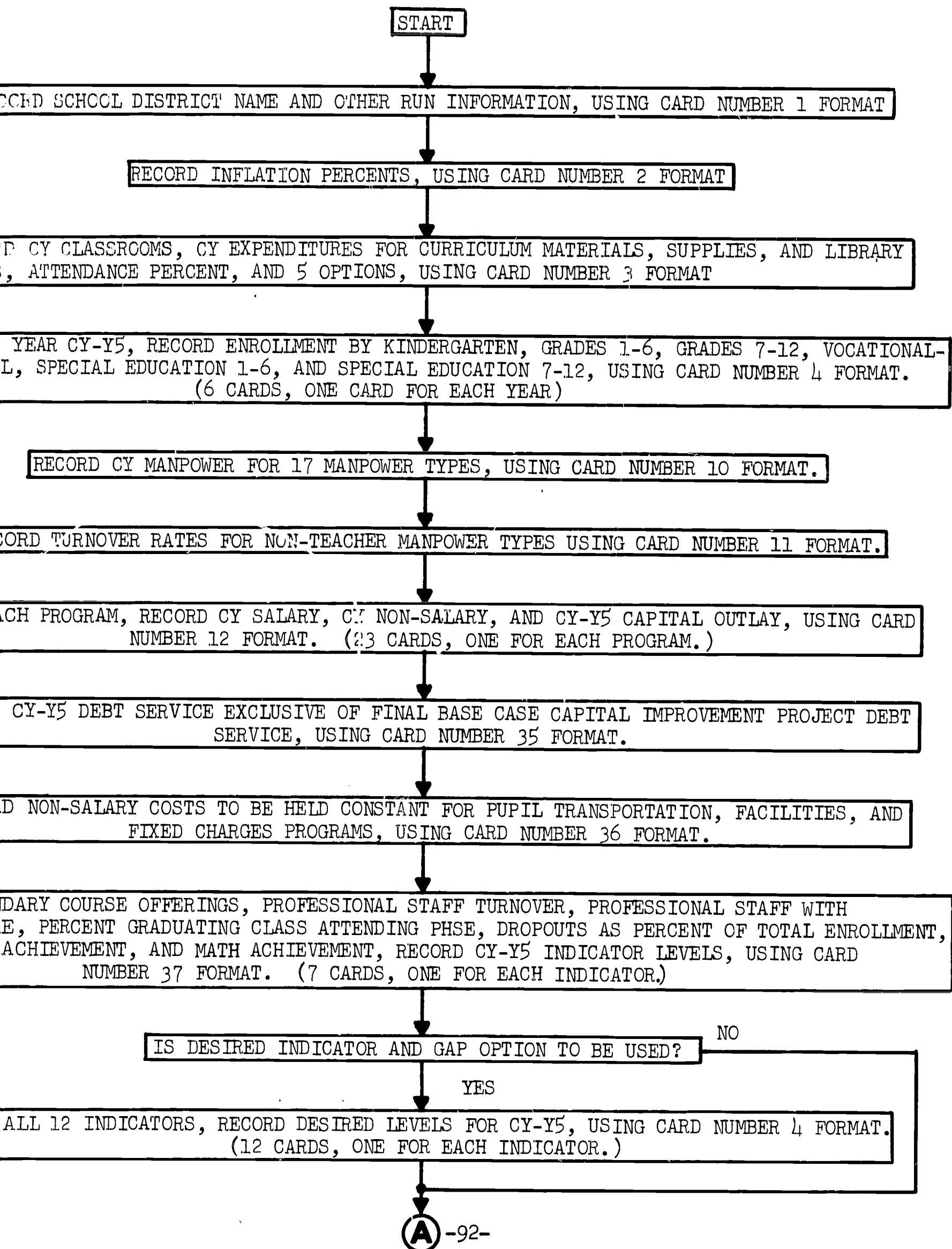
Cols. 1-40.....

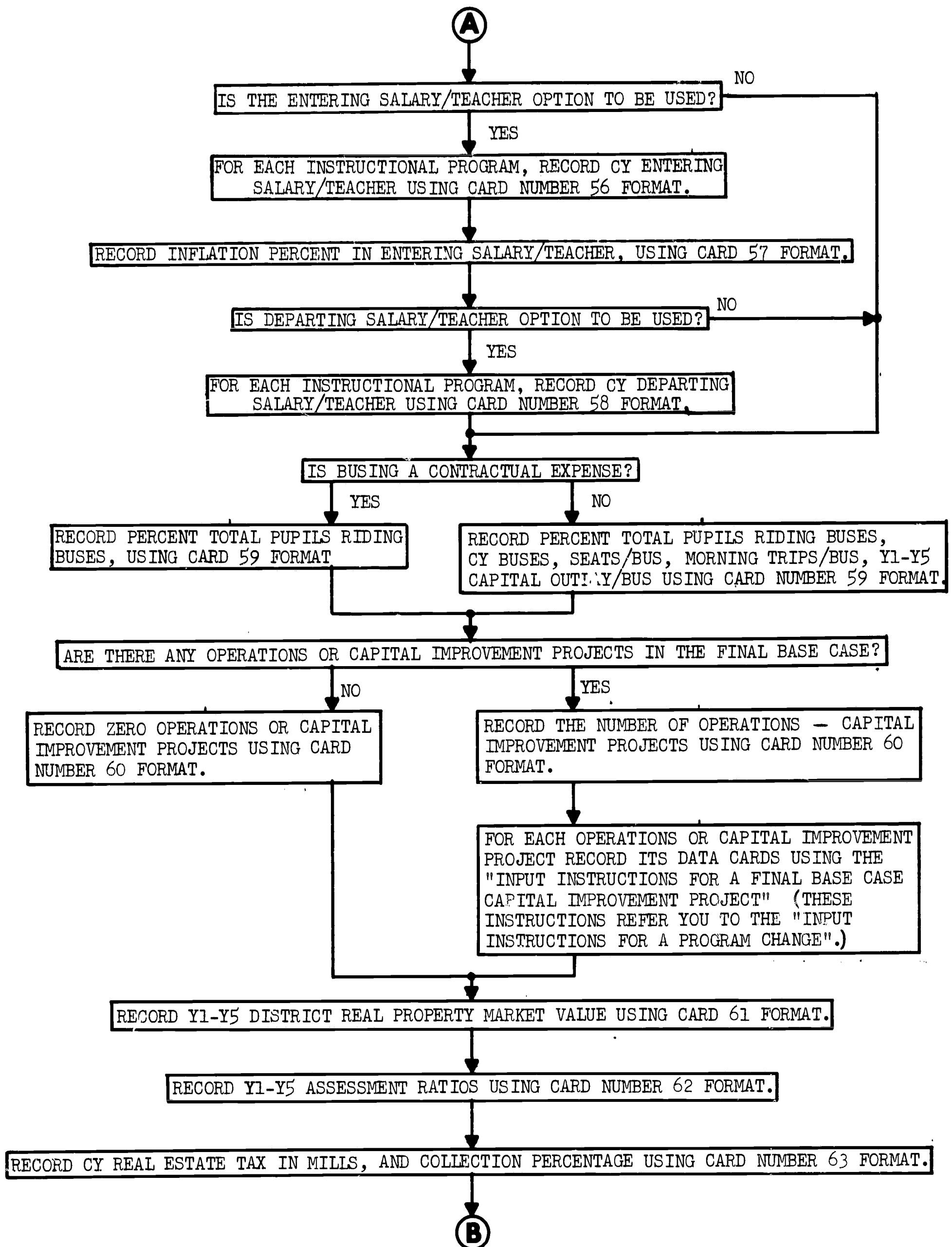
School district name and any other information to identify the computer run: such as, date, run number, and author of the data.



# CHART 2

## CHART OF STEPS FOR RECORDING DATA CARDS FOR VERSION II, MODEL I - SCHOOL DISTRICT





ⓑ

RECORD Y1-Y5 TOTAL ADJUSTMENTS TO THE GROSS ASSESSED REAL ESTATE TAX USING CARD NUMBER 64  
FORMAT.

RECORD Y1-Y5 STATE REAL PROPERTY MARKET VALUE PER PUPIL USING CARD NUMBER 65 FORMAT.

RECORD Y1-Y5 STATE SUBSIDY PER PUPIL USING CARD NUMBER 66 FORMAT.

RECORD Y1-Y5 TOTAL ADJUSTMENTS TO STATE SHARE OF DISTRICT FOUNDATION USING CARD NUMBER 67  
FORMAT.

RECORD Y1-Y5 TOTAL REVENUE FROM SOURCES OTHER THAN REAL ESTATE TAX AND BASIC INSTRUCTIONAL  
SUBSIDY USING CARD NUMBER 68 FORMAT.

ARE THERE ANY OPERATIONS PROJECT ALTERNATIVES FROM WHICH ALTERNATIVE SETS ARE TO BE FORMED?

NO

RECORD ZERO OPERATIONS PROJECT  
ALTERNATIVES USING CARD NUMBER  
69 FORMAT.

YES

RECORD THE NUMBER OF OPERATIONS PROJECT  
ALTERNATIVES USING CARD NUMBER 69 FORMAT.

FOR EACH OPERATIONS PROJECT ALTERNATIVE,  
RECORD ITS DATA CARDS USING THE "INPUT  
INSTRUCTIONS FOR AN OPERATIONS PROJECT  
ALTERNATIVE ". (THESE INSTRUCTIONS REFER  
YOU TO THE "INPUT INSTRUCTIONS FOR A PROGRAM  
CHANGE".)

ARE THERE ANY CAPITAL IMPROVEMENT PROJECT ALTERNATIVES FROM WHICH ALTERNATIVE SETS ARE TO  
BE FORMED?

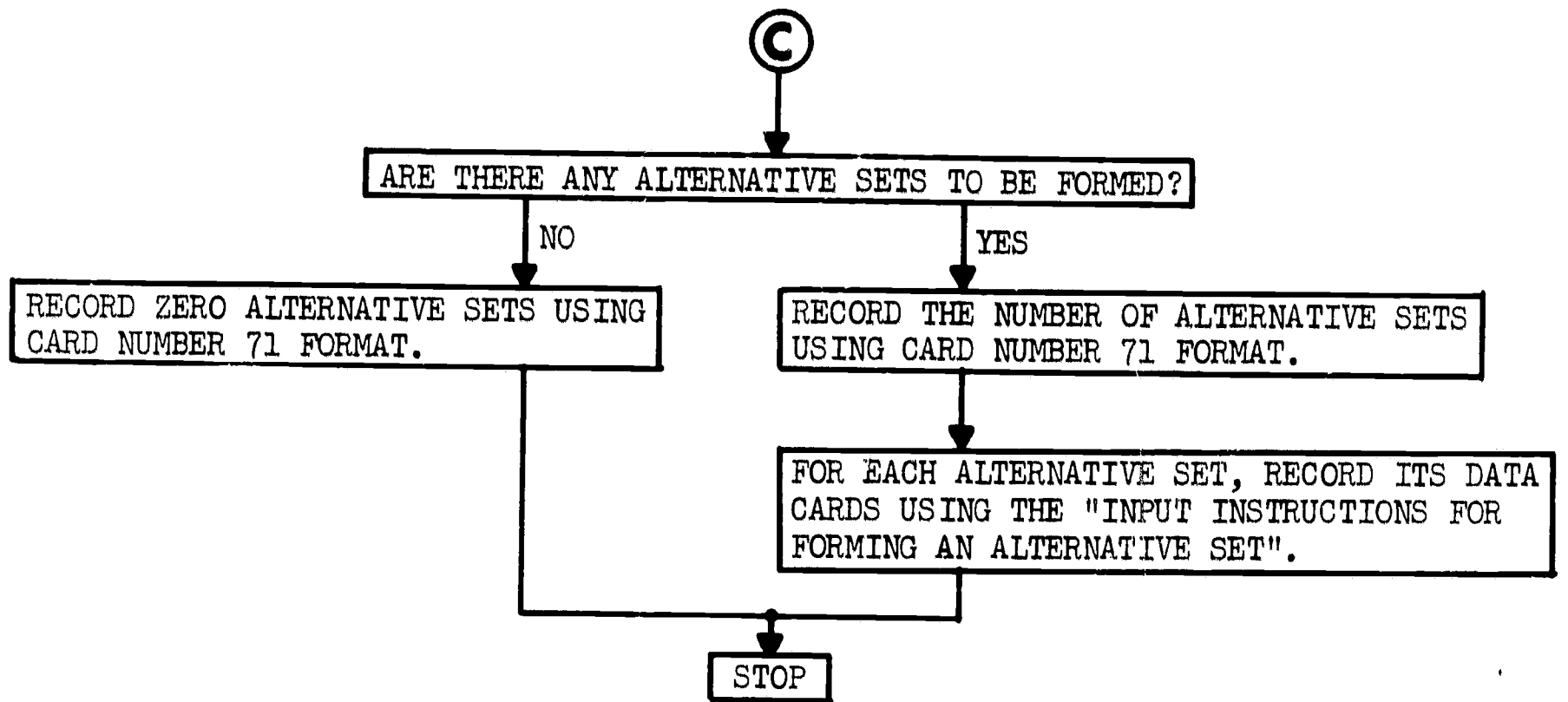
NO

RECORD ZERO CAPITAL IMPROVEMENT  
PROJECT ALTERNATIVES USING CARD  
70 FORMAT.

YES

RECORD THE NUMBER OF CAPITAL IMPROVEMENT  
PROJECT ALTERNATIVES USING CARD NUMBER 70  
FORMAT.

FOR EACH CAPITAL IMPROVEMENT PROJECT  
ALTERNATIVE RECORD ITS DATA CARDS USING  
THE "INPUT INSTRUCTIONS FOR A CAPITAL  
IMPROVEMENT PROJECT ALTERNATIVE ". (THESE  
INSTRUCTIONS REFER YOU TO "INPUT INSTRUCTIONS  
FOR A PROGRAM CHANGE".)



Card Number 2

Cols. 1-4.....	Salary inflation percent.
Cols. 5-8.....	Non-salary inflation percent.
Cols. 9-12.....	Vocational-Technical non-salary inflation percent, if Vocational- Technical is outside school district.

Card Number 3

Cols. 1-5.....	CY total classrooms.
Cols 6-13.....	CY expenditure on curriculum materials, supplies, and library books.
Cols. 14-18.....	Attendance percent.
Col. 19.....	Put 0 if Vocational-Technical is outside school district. Put 1 if Vocational- Technical is inside school district.
Col. 20.....	Put 0 if teacher manpower in ABC is <u>not</u> to be rounded-up. Put 1 if teacher manpower in ABC is to be rounded-up. For example, suppose the computation yields 39.3 teachers. If the round-up option is used, 39.3 becomes 40. If round-up option is not used, 39.3 remains 39.3.
Col. 21.....	Put 0 if <u>no</u> entering salary/teacher and <u>no</u> departing salary/teacher will be entered below. Put 1 if an entering salary/teacher but <u>no</u> departing salary/teacher will be entered below. Put 2 if both an entering salary/teacher and a departing salary/teacher will be entered below.
Col. 22.....	Put 0 if Kindergarten is single-session. Put 1 if Kindergarten is double-session.
Col. 23.....	Put 0 if <u>no</u> desired indicator levels will be entered below and <u>no</u> indicator gaps are to be calculated. Put 1 if desired indicator levels will be inputed below and indicator gaps are to be calculated.



Card Number 4

Cols. 1-10.....	CY Kindergarten enrollment. Use Form #2: New Enrollment Forecast from the <u>Education-Planning-Programming-Budgeting System Procedures Manual for School Districts, Version I, Model 2 (Procedures Manual)</u> to aid you in gathering the data.
Cols. 11-20.....	CY total enrollment in grades 1-6 except for Special Education enrollment in Grades 1-6.
Cols. 21-30.....	CY Total enrollment in grades 7-12 except for Vocational-Technical enrollment and Special Education enrollment in grades 7-12.
Cols. 31-40.....	CY Vocational-Technical enrollment.
Cols. 41-50.....	CY Special Education enrollment in grades 1-6.
Cols. 51-60.....	CY Special Education enrollment in grades 7-12.

Card Number 5

Y1 enrollment forecast formatted as on Card Number 4.

Card Number 6

Y2 enrollment forecast formatted as on Card Number 4.

Card Number 7

Y3 enrollment forecast formatted as on Card Number 4.

Card Number 8

Y4 enrollment forecast formatted as on Card Number 4.

Card Number 9

Y5 enrollment forecast formatted as on Card Number 5.

Card Number 10

Cols. 1-4.....	CY manpower in full-time equivalents for the first manpower type (Professional Administration). See Table 2 for the seventeen manpower types. Use Form #13: Manpower Requirements - Final Base Case from the <u>Procedures Manual</u> to aid you in gathering your data.
Cols. 5-8.....	CY manpower in full-time equivalents for the second manpower type (Principals).
Cols. 9-64.....	CY manpower in full time equivalents for balance of manpower types (allow same number of columns, four, for each type).
Cols. 65-68.....	CY manpower in full-time equivalents for the seventeenth manpower type (Administrative Staff).

TABLE 2

Manpower Number and Types

<u>Number</u>	<u>Manpower Type</u>
1	Professional Administration
2	Principals
3	Teachers-Early Childhood Instruction
4	Teachers-Elementary Instruction
5	Teachers-Secondary Instruction
6	Teachers-Vocational-Technical Instruction
7	Teachers-Special Instruction
8	Teachers-Continuing Instruction
9	Instructional Specialists
10	Nurses
11	Psychologists
12	Clerical Personnel
13	Operations Personnel
14	Maintenance Personnel
15	Bus Drivers
16	Food Service Personnel
17	Administrative Staff

### Card Number 11

Cols. 1-4.....	Turnover rate in percent for the first manpower type (Professional Administration).
Cols. 5-8.....	Turnover rate in percent for the second manpower type (Principals).
Cols. 9-32.....	Leave blank.
Cols. 33-36.....	Turnover rate in percent for the ninth manpower type (Instructional Specialists).
Cols. 37-64.....	Turnover rate in percent for manpower types ten through sixteen (allow four columns for each type).
Cols. 65-68.....	Turnover rate in percent for the seventeenth manpower type (Administrative Staff).

The turnover rate for teachers will be inputted below on Card Number 38 as Indicator #7 (Professional Staff Turnover, in Percent).

### Card Number 12

Cols. 1-10.....	CY salary cost for the first program (Policy and Executive). See Table 3 for a list of the twenty-three programs. Use Worksheet #3.1 (Form #3 - Program and Project Crosswalk) from the <u>Procedures Manual</u> to aid you in gathering the data.
Cols. 11-20.....	CY non-salary cost for the first program.
Cols. 21-30.....	CY capital outlay for the first program.
Cols. 31-40.....	Y1 capital outlay for the first program.
Cols. 41-50.....	Y2 capital outlay for the first program.
Cols 51-60.....	Y3 capital outlay for the first program.

Cols. 61-70.....

Y4 capital outlay for the first program.

Cols. 71-80.....

Y5 capital outlay for the first program.



TABLE 3

Program Numbers and Titles

<u>Number</u>	<u>Program Title</u>
1	Policy and Executive
2	Comprehensive Planning
3	Information and Liaison
4	Community Services
5	Coordinative Support Services
6	Early Childhood Instruction
7	Elementary Instruction
8	Secondary Instruction
9	Vocational-Technical Instruction
10	Special Instruction
11	Continuing Instruction
12	Instructional Support Services
13	Nursing
14	Medical
15	Dental
16	Psychological
17	Health Support Services
18	General Services
19	Pupil Transportation
20	Food Services
21	Facilities

22

**Fixed Charges**

23

**Business Support Services**

Card Number 13

A card similar to Card Number 12, but for the second program (Comprehensive Planning).

Card Number 14

A card similar to Card Number 12, but for the third program (Information and Liaison).

Card Number 15

A card similar to Card Number 12, but for the fourth program (Community Services).

Card Number 16

A card similar to Card Number 12, but for the fifth program (Coordinative Support Services).

Card Number 17

A card similar to Card Number 12, but for the sixth program (Early Childhood Instruction).

Card Number 18

A card similar to Card Number 12, but for the seventh program (Elementary Instruction).

Card Number 19

A card similar to Card Number 12, but for the eighth program (Secondary Instruction).

Card Number 20

A card similar to Card Number 12, but for the ninth program (Vocational-Technical Instruction).

Card Number 21

A card similar to Card Number 12, but for the tenth program (Special Instruction).

Card Number 22

A card similar to Card Number 12, but for the eleventh program (Continuing Instruction).

Card Number 23

A card similar to Card Number 12, but for the twelfth program (Instructional Support Services).

Card Number 24

A card similar to Card Number 12, but for the thirteenth program (Nursing).

Card Number 25

A card similar to Card Number 12, but for the fourteenth program (Medical).

Card Number 26

A card similar to Card Number 12, but for the fifteenth program (Dental).

Card Number 27

A card similar to Card Number 12, but for the sixteenth program (Psychological).

Card Number 28

A card similar to Card Number 12, but for the seventeenth program (Health Support Services).

Card Number 29

A card similar to Card Number 12, but for the eighteenth program (General Services).

Card Number 30

A card similar to Card Number 12, but for the nineteenth program (Pupil Transportation).

Card Number 31

A card similar to Card Number 12, but for the twentieth program (Food Services).

Card Number 32

A card similar to Card Number 12, but for the twenty-first program (Facilities).

Card Number 33

A card similar to Card Number 12, but for the twenty-second program (Comprehensive Planning).

Card Number 34

A card similar to Card Number 12, but for the twenty-third program (Business Support Services).

Card Number 35

Cols. 1-10.....	CY Debt Service.
Cols 11-20.....	Y1 Debt Service. (Not including Debt Service of Final Base Case Capital Improvements.)
Cols. 21-30.....	Y2 Debt Service. (Not including Debt Service of Final Base Case Capital Improvements.)
Cols. 31-40.....	Y3 Debt Service. (Not including Debt Service of Final Base Case Capital Improvements.)
Cols. 41-50.....	Y4 Debt Service. (Not including Debt Service of Final Base Case Capital Improvements.)
Cols. 51-60.....	Y5 Debt Service. (Not including Debt Service of Final Base Case Capital Improvements.)

Card Number 36

Cols. 1-10.....	Pupil Transportation non-salary costs to be held constant.
Cols. 11-20.....	Facilities non-salary costs to be held constant.
Cols. 21-30.....	Fixed Charges non-salary costs to be held constant.



Card Number 37

Cols. 1-8.....	CY Secondary Course Offerings (Indicator #3). See Table 4 for a list of the indicators. The indicators are defined in the section on Form #4: Indicator Level - Summary in the <u>Procedures Manual</u> . Use Worksheets #6.1 and #6.13 (Form #6: Calculations and Projections of Indicators for Base Cases - Detail) in the <u>Procedures Manual</u> to assist you in gathering the data for the indicators.
Cols. 9-16.....	Y1 Secondary Course Offerings.
Cols. 17-24.....	Y2 Secondary Course Offerings.
Cols. 25-32.....	Y3 Secondary Course Offerings.
Cols. 33-40.....	Y4 Secondary Course Offerings.
Cols. 41-48.....	Y5 Secondary Course Offerings.

Card Number 38

A card similar to Card Number 37, but for Professional Staff Turnover, in Percent (Indicator #7).

Card Number 39

A card similar to Card Number 37, but for Percent Graduating Class Attending PHSE (Indicator #9).

Card Number 40

A card similar to Card Number 37, but for Percent Graduating Class Attending PHSE (Indicator #9).

Card Number 41

A card similar to Card Number 37, but for Dropouts as a Percent of Total Enrollment (Indicator #10).

TABLE 4

Indicator Numbers and Titles

<u>Number</u>	<u>Indicator Title</u>
1	Excess enrollment
2	Classroom teachers/1000 weighted pupils
3	Mean cumulative course offerings for grades 7-12 in 200 min./week equivalents
4	Instructional specialists, nurses, and psychologists/weighted pupil
5	Expenditures for curriculum materials, supplies, and library books/weighted pupil
6	Net total expenditures/weighted pupil
7	Professional staff turnover in percent
8	Percent of professional staff with MA degree or more
9	Percent of graduating class attending PHSE
10	Dropouts as percent of enrollment
11	Language achievement as mean deviation from grade level
12	Mathematics achievement as mean deviation from grade level

Card Number 42

A card Similar to Card Number 37, but for Language Achievement (Indicator #11).

Card Number 43

A card similar to Card Number 37, bur for Mathematics Achievement (Indicator #12).

Note:

1. If the option for entering desired indicator levels and for calculating indicator gaps is used, the following card numbers 44-55 must be included.
2. Use Worksheet #6.13 (Form #6: Calculations and Projections of Indicators for Base Cases - Detail) in the Procedures Manual to assist you in gathering the data.
3. If the option is not used, skip down to the instructions following Card Number 55.

Card Number 44

Cols. 1-8.....	CY desired indicator level for the first indicator (Excess Enrollment). Use Worksheet #6.13 in the <u>Procedures Manual</u> to assist you in gathering the data.
Cols. 9-16.....	Y1 desired indicator level for the first indicator.
Cols. 17-24.....	Y2 desired indicator level for the first indicator.
Cols. 25-32.....	Y3 desired indicator level for the first indicator.
Cols. 33-40.....	Y4 desired indicator level for the first indicator.
Cols. 41-48.....	Y5 desired indicator level for the first indicator.

Card Number 45

Follow the same instructions outlined under Card Number 44 for Indicator #2.

Card Number 46

Follow the same instructions as outlined under Card Number 44 for Indicator #3.

Card Number 47

Follow the same instructions as outlined under Card Number 44 for Indicator #4.

Card Number 48

Follow the same instructions as outlined under Card Number 44 for Indicator #5.

Card Number 49

Follow the same instructions as outlined under Card Number 44 for Indicator #6.

Card Number 50

Follow the same instructions as outlined under Card Number 44 for Indicator #7.

Card Number 51

Follow the same instructions as outlined under Card Number 44 for Indicator #8.

Card Number 52

Follow the same instructions as outlined under Card Number 44 for Indicator #9.

Card Number 53

Follow the same instructions as outlined under Card Number 44 for Indicator #10.

Card Number 54

Follow the same instructions as outlined under Card Number 44 for Indicator #11.

Card Number 55

Follow the same instructions as outlined under Card Number 44 for Indicator #12.

Note:

1. If no entering salary/teacher and no departing salary/teacher option was specified above, skip down to Card Number 59 and include it as the very next card.

Card Number 56

Cols. 1-6.....	CY entering salary/teacher for Early Childhood teachers.
Cols. 7-12.....	CY entering salary/teacher for Elementary teachers.
Cols. 13-18.....	CY entering salary/teacher for Secondary teachers.
Cols. 19-24.....	CY entering salary/teacher for Vocational-Technical teachers.
Cols. 25-30.....	CY entering salary/teacher for Special Education teachers.

Card Number 57

Cols. 1-4..... Inflation percent on the entering salaries/teacher. Refer to Table 2 Compound Inflation Rates of the Procedures Manual for the rates.

Note:

1. If no departing salary/teacher option was specified above, skip down to Card Number 59 and include it as the very next card.

Card Number 58

Cols. 1-6..... CY departing salary/teacher for Early Childhood teachers.

Cols. 7-12..... CY departing salary/teacher for Elementary teachers.

Cols. 13-18..... CY departing salary/teacher for Secondary teachers.

Cols. 19-24..... CY departing salary/teacher for Vocational-Technical teachers.

Cols. 25-30..... CY departing salary/teacher for Special Education teachers.

Card Number 59

Cols. 1-6..... Total bus riders as percent of total enrollment (less .5 Kindergarten enrollment, if Kindergarten is single-session).

Read the following paragraphs before using Columns 7-54:

1. Columns 7-54 are applicable if pupil transportation is not a contractual expense, i.e., the school district owns buses and has bus drivers. (Under this condition, Card Number 10 should have some CY bus drivers.)
2. If pupil transportation is a contractual expense, leave columns 7-54 blank. (Under this condition, Card Number 10 should have no CY bus drivers.)



3. If it is desired not to have pupil transportation costs vary with enrollment, leave Card Number 59 blank.

Cols. 7-12.....	CY number of buses.
Cols. 13-18.....	Seats/bus.
Cols. 19-24.....	Morning trips/bus.
Cols. 25-30.....	Y1 capital outlay/bus.
Cols. 31-36.....	Y2 capital outlay/bus.
Cols. 37-42.....	Y3 capital outlay/bus.
Cols. 43-48.....	Y4 capital outlay/bus.
Cols. 49-54.....	Y5 capital outlay bus.

Card Number 60

Cols. 1-2.....	Number of operations or capital improvement projects in the Final Base Case.
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Note:

If there are operations or capital improvement projects in the Final Base Case, make Card Number 61 the very next card after Card Number 60. If the Final Base Case has at least one operations or capital improvement project, include a set of cards for each operations or capital improvement project - stacking one set after another, between Card Numbers 60 and 61. See the "Input Instructions For A Final Base Case Operations or Capital Improvement Project" to complete each set of cards; these instructions follow Card Number 71.

Card Number 61

Cols 1-9.....	Y1 District real property market value. Refer to the instructions for Form #14: Revenue Forecast of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering the data for Card Number 61.
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Cols. 10-18.....	Y2 District real property market value.
Cols. 19-27.....	Y3 District real property market value.
Cols. 28-36.....	Y4 District real property market value.
Cols. 37-45.....	Y5 District real property market value.

Card Number 62

Cols. 1-5.....	Y1 Assessment ratio. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering the data for Card Number 62.
Cols. 6-10.....	Y2 Assessment ratio.
Cols. 11-15.....	Y3 Assessment ratio.
Cols. 16-20.....	Y4 Assessment ratio.
Cols. 21-25.....	Y5 Assessment ratio.

Card Number 63

Cols. 1-5.....	CY Real estate tax rate in mills. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 63.
Cols. 6-10.....	Collection percentage (assumed same for all years Y1-Y5).

Card Number 64

Cols. 1-9.....	Y1 Total Adjustments to the gross assessed real estate tax to obtain total real estate tax. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 64.
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Cols. 10-18.....	Y2 Total Adjustments to the gross assessed real estate tax to obtain total real estate tax.
Cols. 19-27.....	Y3 Total Adjustments to the gross assessed real estate tax to obtain total real estate tax.
Cols. 28-36.....	Y4 Total Adjustments to the gross assessed real estate tax to obtain total real estate tax.
Cols. 37-45.....	Y5 Total Adjustments to the Gross assessed real estate tax to obtain total real estate tax.

Card Number 65

Cols. 1-6.....	Y1 State real property market value per pupil. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 65.
Cols. 7-12.....	Y2 State real property market value per pupil.
Cols. 13-18.....	Y3 State real property market value per pupil.
Cols. 19-24.....	Y4 State real property market value per pupil.
Cols. 25-30.....	Y5 State eral property market value per pupil.

Card Number 66

Cols. 1-4.....	Y1 State subsidy per pupil. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 66.
Cols. 5-8.....	Y2 State subsidy per pupil.
Cols. 9-12.....	Y3 State subsidy per pupil.

Cols. 13-16.....	Y4 State subsidy per pupil.
Cols. 17-20.....	Y5 State subsidy per pupil.

Card Number 67

Cols. 1-9.....	Y1 Total adjustments to state share of district foundation to obtain net state instructional subsidy. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 67.
Cols. 10-18.....	Y2 Total adjustments to state share of district foundation to obtain net state instructional subsidy.
Cols. 19-27.....	Y3 Total adjustments to state share of district foundation to obtain net share instructional subsidy.
Cols. 28-36.....	Y4 Total adjustments to state share of district foundation to obtain net share instructional subsidy.
Cols. 37-45.....	Y5 Total adjustments to state share of district foundation to obtain net share instructional subsidy.

Card Number 68

Cols. 1-9.....	Y1 Total revenue from all sources other than Real Estate Tax and Basic Instructional Subsidy. Refer to the instructions for Form #14 of the <u>Procedures Manual</u> . The instructions and worksheets will aid you in gathering data for Card Number 68.
Cols. 10-18.....	Y2 Total Revenue from all sources other than Real Estate Tax and Basic Instructional Subsidy.
Cols. 19-27.....	Y3 Total Revenue from all sources other than Real Estate Tax and Basic Instructional Subsidy.

Cols. 28-36.....

Y4 Total revenue from all sources other than Real Estate Tax and Basic Instructional Subsidy.

Cols. 37-45.....

Y5 Total revenue from all sources other than Real Estate Tax and Basic Instructional Subsidy.

Card Number 69

Cols. 1-2.....

Total number of operations project alternatives to be considered.

Note:

1. If there are no operations project alternatives, make Card Number 70 the very next card after Card Number 69.
2. If there is at least one operations project alternative, include a set of cards for each operations project alternative, stacking one set after another, between Card Number 69 and Card Number 70. See the "Input Instructions for an Operations Project Alternative" to complete each set of cards. These instructions are presented as a part of a series of such instructions which follows this section.

Card Number 70

Cols. 1-2.....

Total number of capital improvement project alternatives to be considered.

Note:

1. If there are no capital improvement project alternatives, make Card Number 71 the very next card after Card Number 70.
2. If there is at least one capital improvement project alternative, include a set of cards for each capital improvement project alternative, stacking one set after another, between Card Numbers 70 and 71. See the "Input Instructions for a Capital Improvement Project Alternative" to complete each set of cards. These instructions are presented as a part of a series of such instructions which follows this section.

Card Number 71

Cols 1-2.....

Total number of alternative sets to be formed from the operation project alternatives and capital improvement project alternatives entered previously.

Note:

1. If there are no alternative sets, Card Number 71 is the last data card of the input deck.
2. If there is at least one alternative set to be formed, include one set of cards for each alternative set, stacking one set of cards after another. See the "Input Instructions for Forming Alternative Sets" to complete each set of cards. These instructions are presented as a part of a series of such instructions which follows this section.
3. The last card of the set of cards for the last alternative set to be formed is the last card of the input deck.



Input Instructions for a Final Base Case Operations  
or Capital Improvement Projects

Include the set of cards described here if the Final Base Case has at least one operations or capital improvement project.

Refer to the instructions for Form #8 - Capital Improvement Project and use the worksheets and Form #8 to aid in gathering the data for the cards. Also refer to the instructions for Form #10.1: Project - Detail and use the form for gathering data for the cards.

Card Number F1

Cols. 1-40.....

Title of the operations or capital improvement project. Precede the verbal title by the last two digits of the year in which the project was approved and the project number, i.e., "68-3 Little Green School Addition".

Card Number F2

Cols. 1-2.....

The year at the beginning of which the operations project begins or capital improvement's classrooms become available. CY is represented by putting a 0 in Column 2, Y1 by 1, etc.

Cols 3-8.....

The number of classrooms. The number of classrooms is assumed to be available for all years from the year indicated in Cols. 1-2 to Y5. Zero is placed in Column 3 for operations projects.

Card Number F3

Cols. 1-2.....

The number of programs for which Adjusted Base Case costs are changed because of the operations or capital improvement project. Changes in curriculum materials, supplies, and library books are affected through a change in the Instructional Support Services Program. Changes in Debt Service are affected through a change in the Facilities Program.

Note:

1. For each program the costs of which are to be changed, include a set of cards, stacking one set after another. See the "Input Instructions for a Program Change" for completing each set of cards.

## Input Instructions for a Program Change

See Chart 3 for a flowchart of the steps for recording the data cards of a program change for any of the twenty-three programs. If the program change calls for an increase in manpower and/or costs, record just the amount, no plus (+) sign is needed. If the program change calls for a decrease in manpower and/or costs, record a minus (-) sign before the amount.

### Card Number D1

Cols. 1-2.....	The number of the program to be changed. See Table 3 for the number corresponding to the program.
Cols. 3-4.....	The first year of the program change. CY as the first year is represented by 0 in Column 4, Y1 as the first year by 1 in Column 4, etc.

### Note:

1. If the program to be changed is Medical or Dental, skip down to Card Number 3 and include it immediately following Card Number 1.
2. If the program to be changed is Fixed Charges, skip down to Card Number 5 and include it immediately following Card Number 1.
3. Since the program to be changed is not Medical, Dental, or Fixed Charges, the Program Change will have manpower-salary cards. Look at Table 5 for the manpower types associated with the program to be changed. Suppose the program to be changed is General Services. Associated with General Services are Professional Administration, Administrative Staff, and Clerical Personnel manpower types. For each associated manpower type, include a manpower-salary card using Card Number D2 format. The system assumes that Table 5 includes all the possible manpower type changes which can be associated with each of the twenty-three programs.

Card Number D2

Cols. 1-8..... First year change in manpower in full-time equivalents for the manpower type.

Cols. 9-16..... Second year change in manpower in full-time equivalents for the manpower type.

Continue recording manpower changes, using sets of eight columns, until Y5 is reached.

In the next set of eight columns, record the first year average salary/full-time equivalent individual for the manpower type. As a check on the format of Card Number D2, use the following table:

<u>First Year of Program Change</u>	<u>Cols. in Which Average Salary/Man Should be Recorded</u>
CY	49-54
Y1	41-48
Y2	33-40
Y3	25-32
Y4	17-24
Y5	9-16

If the program to be changed is General Services, three cards using Card Number 2 format would be included: the first card for Professional Administration, the second for Administrative Staff, and the third for Clerical Personnel.

If there are no changes in manpower for any manpower type, then its card would be blank.

Skip down to Card Number 6 and include it immediately after the manpower-salary cards just completed.

# CHART 3

## FLOW CHART OF STEPS FOR RECORDING THE DATA CARDS OF A PROGRAM CHANGE

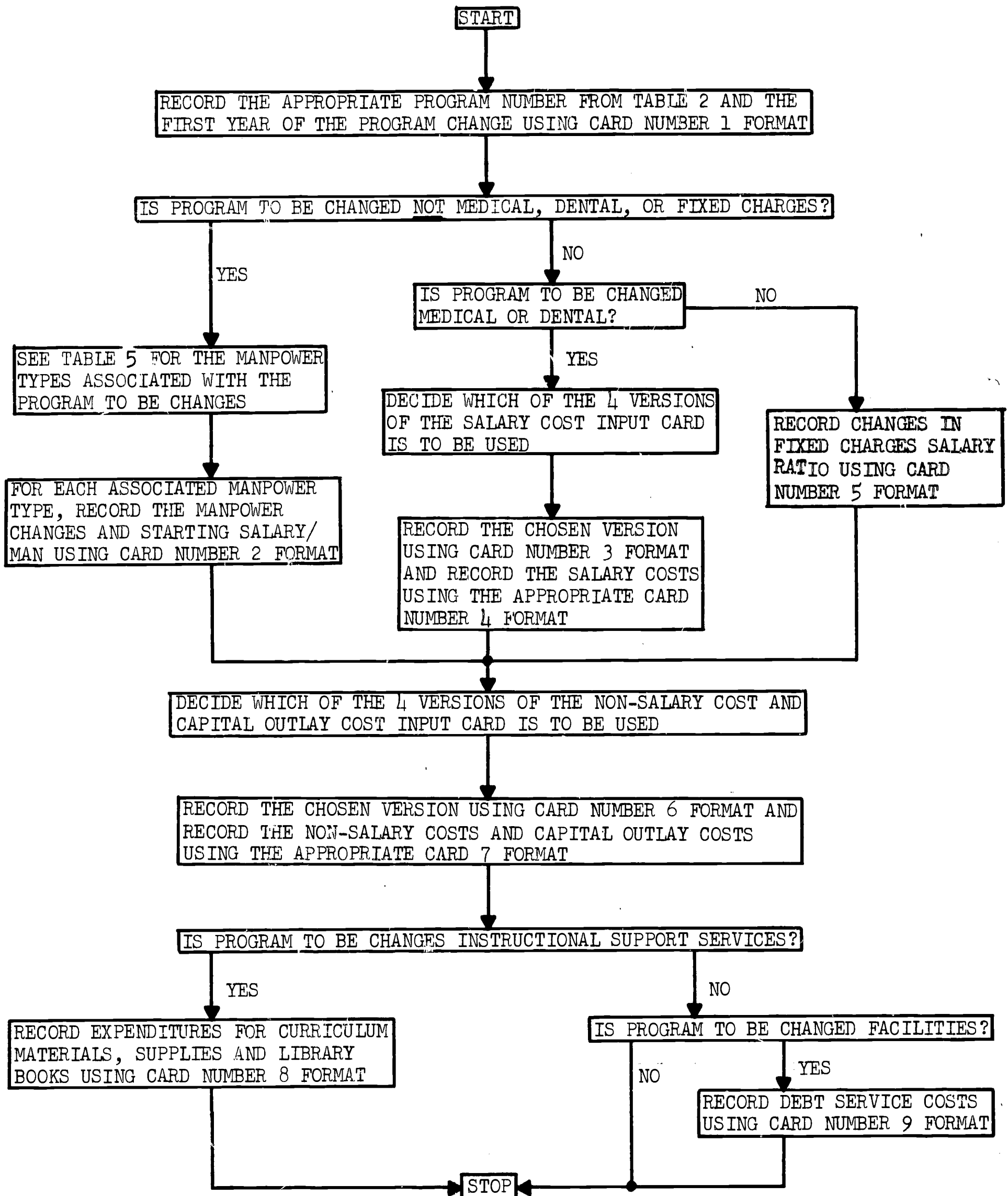


TABLE 5

Manpower Types Associated with Programs

<u>Program</u>	<u>Manpower Types</u>
Policy and Executive	Professional Administration
Comprehensive Planning	Professional Administration
Information and Liaison	Professional Administration
Community Services	Professional Administration
Coordinative Support Services	Professional Administration Clerical Personnel
Early Childhood Instruction	Teachers-Early Childhood
Elementary Instruction	Teachers-Elementary
Secondary Instruction	Teachers-Secondary
Voc.-Tech. Instruction	Teachers-Vocational-Technical
Special Instruction	Teachers-Special Instruction
Continuing Instruction	Teachers-Continuing
Instructional Support Services	Principals Instructional Specialists Clerical Personnel
Nursing	Nurses
Medical	None
Dental	None
Psychological	Psychologists
Health Support Services	Clerical Personnel
General Services	Professional Administration Administrative Staff Clerical Personnel



**Pupil Transportation**

**Food Services**

**Facilities**

**Fixed Charges**

**Business Support Services**

**Bus Drivers**

**Food Service Personnel**

**Operations Personnel**  
**Maintenance Personnel**

**None**

**Professional Administration**  
**Clerical Personnel**

### Card Numbers D3 and D4

These instructions apply only if the program to be changed is Medical or Dental.

#### Version #1

If it is desired to input the total change in salary cost for the first year and have the computer inflate the total change to Y5,

1. Card Number D3
  - a. Col. 1 - Write 1.
2. Card Number D4
  - a. Cols. 1-8 - Total first year change in salary cost.

#### Version #2

If it is desired to input the total change in salary cost for each year from the first year to Y5,

1. Card Number D3
  - a. Col. 1 - Write 2.
2. Card Number D4
  - a. Cols. 1-8 - Total change in salary cost.
  - b. Cols. 9-16 - Total second year change in salary cost.
  - c. Continue recording total changes in salary cost using sets of eight columns until Y5.

#### Version #3

If it is desired to input the first year change in salary cost/pupil and have the computer inflate and multiply by total weighted enrollment (staff weights) through Y5,

1. Card Number D3
  - a. Col. 1 - Write 3.

2. Card Number D4

- a. Cols. 1-8 - First year change in salary cost/pupil.

Version #4

If it is desired to input the change in salary cost/pupil for each year from the first year to Y5 and have the computer multiply by total weighted enrollment (staff weights) through Y5,

1. Card Number D3

- a. Col. 1 - Write 4.

2. Card Number D4

- a. Cols. 1-8 - First year change in salary cost/pupil.
- b. Cols. 9-16 - Second year change in salary cost/pupil.
- c. Continue recording changes in salary cost/pupil using sets of eight columns until Y5.

Skip down to Card Number D6 and include it immediately after one of the above four versions of Card Numbers D3 and D4.

Card Number D5

Card Number D5 should immediately follow Card Number D1 only if the program to be changed is Fixed Charges.

Cols. 1-8..... First year change in the ratio of Fixed Charges to total other salary (less Medical and Dental salary costs).

Cols 9-16..... Second year change in the ratio of Fixed Charges salary.

Continue recording changes in the ratio using sets of eight columns until Y5.

Card Numbers D6 and D7

These instructions apply to changes in any program.

### Version #1

If it is desired to input the total change in non-salary cost for the first year and have the computer inflate the total through Y5,

1. Card Number D6
  - a. Col. 1 - Write 1.
2. Card Number D7
  - a. Cols. 1-8 - Total change in first year non-salary cost.
  - b. Cols. 9-16 - Total change in first year capital outlay cost.
  - c. Cols. 17-24 - Total change in second year capital outlay cost.
  - d. Continue recording total changes in capital outlay costs using sets of eight columns until Y5.

### Version #2

If It is desired to input the total change in non-salary cost for each year from the first year to Y5,

1. Card Number D6
  - a. Col. 1 - Write 2.
2. Card Number D7
  - a. Cols. 1-8 - Total change in first year non-salary cost.
  - b. Cols. 9-16 - Total change in second year non-salary cost.
  - c. Continue recording total changes in non-salary costs using sets of eight columns until Y5. Then, record in the next set of eight columns the total change in first year capital outlay costs. Continue recording total changes in capital outlay costs using sets of eight columns until Y5. As a check on the recording of this version of Card Number D7, use the following table:

First Year of the  
Program Change

Cols. in Which Total First  
Year Change in Capital Out-  
lay Cost is Recorded

CY	49-54
Y1	41-48
Y2	33-40
Y3	25-32
Y4	17-24
Y5	9-16

Version #3

It is desired to input the first year change in non-salary cost/pupil and have the computer inflate and multiply by those pupils associated with the program,

1. Card Number D6

a. Col. 1 - Write 3.

2. Card Number D7

- a. Cols. 1-8 - First year change in non-salary cost/pupil.
- b. Cols. 9-16 - Total first year change in capital outlay cost.
- c. Cols. 17-24 - Total second year change in capital outlay cost.
- d. Continue recording total changes in capital outlay costs using sets of eight columns until Y5. The following table shows the pupil populations associated with the twenty-three programs:

<u>Program</u>	<u>Associated Pupil Population</u>
Early Childhood Instruction	Weighted Kindergarten Enrollment-Finance
Elementary Instruction	Grades 1-6 enrollment
Secondary Instruction	Grades 7-12 enrollment plus
Voc.-Tech. Instruction	Voc.-Tech. enrollment 1/2 Voc.-Tech. enrollment
Special Instruction	Weighted Special enrollment 1-6 plus Weighted Special enrollment 7-12 (finance weights)

- e. All other programs are associated with total weighted enrollment (finance weights).

#### Version #4

If it is desired to input the change in non-salary cost/pupil for each year from the first year of the program change through Y5 and have the computer multiply by those pupils associated with the program,

1. Card Number D6
  - a. Col. 1 - Write 4.
2. Card Number D7
  - a. Cols. 1-8 - First year change in non-salary cost/pupil.
  - b. Cols. 9-16 - Second year change in non-salary cost/pupil.
  - c. Continue recording changes in non-salary cost/pupil using sets of eight columns until Y5. Then, record in the next set of eight columns the total change in first year capital outlay cost. Continue recording total changes in capital outlay costs using sets of eight columns until Y5. As a check on the recording of this version of Card Number D7, use the table under Version #2 of Card Numbers D6 and D7 above.



- d. The pupils associated with the twenty-three programs are shown in the table under Version #3 of Card Numbers D6 and D7 above.

Note:

1. If the program to be changed is neither Instructional Support Services nor Facilities, the program change is completed.
2. If the program to be changed is Facilities, skip down to Card Number D9 and include it immediately after Card Number D7.

Card Number D8

Card Number D8 should be included after Card Number D7 only if the program to be changed is Instructional Support Services.

Cols. 1-8..... Total first year change in expenditures for curriculum materials, supplies, and library books.

Cols. 9-16..... Total second year change in expenditures for curriculum materials, supplies, and library books.

Continue recording total changes in curriculum materials, supplies, and library books using sets of eight columns until Y5. Curriculum materials, supplies, and library books are part of the non-salary costs of Instructional Support Services Program. The non-salary cost changes that are recorded on Card Number D7 are exclusive of curriculum materials, supplies, and library books. The computer will add the expenditures for curriculum materials, etc. to other non-salary costs, so do not double count.

The Instructional Support Services Program change is completed.

Card Number D9

If the program to be charged is Facilities, include Card Number D9 immediately after Card Number D7.

Cols. 1-8..... Total first year change in Debt Service.

Cols. 9-16..... Total second year change in Debt Service.

Continue recording total changes in Debt Service using sets of eight columns until Y5.

The Facilities Program Change is completed.

Input Instructions for an Operations  
Project Alternative

Complete the cards listed for each operations project alternative.

Card Number R1

Cols. 1-40.....	Title of the operations project alternative. Precede the verbal title with the last two digits of the year in which the project was approved and the project number, i.e., "68-1 Reading Improvement".
-----------------	--

Card Number R2

Cols. 1-2.....	The number of programs whose Final Base Case costs are changed because of the operations project alternative. Changes in curriculum materials, supplies, and library books are effected through a change in the Instructional Support Services Program. Changes in debt service are effected through a change in the Facilities Program.
----------------	--

Note:

1. For each program for which costs are to be changed, include a set of cards, stacking one set after another, between Card Numbers R2 and R3. See the "Input Instructions for a Program Change" for completing each set of cards outlined previously.
2. Find the earliest year of the program changes. This year will be used below as the first year of the indicator changes of the program alternative.

Card Number R3

Cols. 1-8.....	First year change in Secondary Course Offerings.
----------------	--

Cols. 9-16.....

Second year change in Secondary Course Offerings.

Continue recording changes in Secondary Course Offerings using sets of eight columns until Y5.

Card Number R4

A card similar to Card Number R3 for Changes in Professional Staff Turnover, in Percent.

Card Number R5

A card similar to Card Number R3 for Changes in Professional Staff with MA or More, in Percent.

Card Number R6

A card similar to Card Number R3 for Changes in Percent Graduating Class Attending PHSE.

Card Number R7

A card similar to Card Number R3 for Changes in Dropouts as a Percent of Total Enrollment.

Card Number R8

A card similar to Card Number R3 for Changes in Language Achievement.

Card Number R9

A card similar to Card Number R3 for Changes in Mathematics Achievement.

Input Instructions for a Capital Improvement  
Project Alternative

Card Number C1

Cols. 1-40..... Title of the capital improvement project alternative. Precede each verbal title with the last two digits of the year in which the project was approved and the project number, i.e., "68-3 Little Green School Addition".

Card Number C2

Cols. 1-2..... The year at the beginning of which the capital improvement's classrooms become available. Y1 is represented by putting a 1 in Column 2, Y2 by 2, etc.

Cols. 3-8..... The number of classrooms. This number is assumed to be available all years from that year indicated in Columns 1-2 to Y5. Reductions in classrooms are read in as negative numbers. For example if in a given year a building with ten classrooms is to be demolished, enter -10 in columns 6-8.

Card Number C3

Cols. 1-8..... Total additional revenue resulting from the capital improvement during the first year in which classrooms are available.

Cols. 9-16..... Total additional revenue in the next year.

Continue recording total additional revenues, using sets of eight columns through Y5.

#### Card Number C4

Cols. 1-2.....

The number of programs for which Final Base Case costs are changed because of the capital improvement. Changes in curriculum materials, supplies, and library books are affected through a change in Instructional Support Services Program. Changes in debt service are affected through a change in the Facilities Program.

#### Note:

1. For each program whose costs are to be changed, include a set of cards, stacking one set after another, between Card Numbers C4 and C5. See the "Input Instructions for a Program Change" for completing each set of cards outlined previously.
2. The first year the classrooms become available will be used below as the first year of the indicator changes because of the capital improvement.

#### Card Number C5

Cols. 1-8.....

First year Changes in Secondary Course Offerings.

Cols. 9-16.....

Second year Changes in Secondary Course Offerings.

Continue recording changes in Secondary Course Offerings using sets of eight columns until Y5.

#### Card Number C6

A card similar to Card Number C5 for Changes in Professional Staff Turnover, in Percent.

#### Card Number C7

A card similar to Card Number C5 for Changes in Professional Staff with MA or More, in Percent.



Card Number C8

A card similar to Card Number C5 for Changes in Percent Graduating Class Attending PHSE.

Card Number C9

A card similar to Card Number C5 for Changes in Dropouts as a Percent of Total Enrollment.

Card Number C10

A card similar to Card Number C5 for Changes in Language Achievement.

Card Number C11

A card similar to Card Number C5 for Changes in Mathematics Achievement.

## Input Instructions for Forming an Alternative Set

Complete the cards explained here when assembling alternative sets. Each set will include the twenty-three continuing programs, previously approved operations and capital improvement projects, and selected operations and capital improvement project alternatives.

### Card Number S1

Cols. 1-2..... The total number of project alternatives to be included in the alternative set.

#### Note:

1. If the alternative set has no operations project alternatives, include Card Number S3 as the very next card after Card Number S1.
2. If the alternative set has at least one operations project alternative, include Card Number S2 as the very next card after Card Number S1.

### Card Number S2

Cols. 1-2..... The number of the alternative set's first project alternative in the list of all the operations project alternatives. For Example, Columns 1-2 would contain 10 if the alternative set's first operations project alternative was the tenth operations project alternative.

Cols. 3-4..... The number of the alternative set's second operations project alternative in the list of all the operations project alternatives.

Continue recording numbers of the operations project alternatives, using sets of two columns. Continue on the next card, if necessary, i.e., if the alternative set has more than twenty operations project alternatives.

Card Number S3

Cols. 1-2.....

The total number of capital improvement project alternatives to be included in the alternative set.

Note:

1. If the alternative set has no capital improvement project alternatives, Card Number S3 is the last card of the set of cards comprising the alternative set to be formed.
2. If the alternative set has at least one capital improvement project alternative, Card Number S4 is the last card of the set of cards comprising the alternative set to be formed.

Card Number S4

Cols. 1-2.....

The number of the alternative set's first capital improvement project alternative in the list of all the capital improvement project alternatives. For example, Column 2 would contain five, if the alternative set's first capital improvement project alternative was the fifth potential capital improvement project alternative.

Cols. 3-4.....

The number of the alternative set's second capital improvement project alternative in the list of capital improvement project alternatives.

Continue recording numbers of capital improvement project alternatives, using sets of two columns. Continue on the next card, if necessary, i.e., if the alternative set has more than twenty capital improvements.

## SECTION II

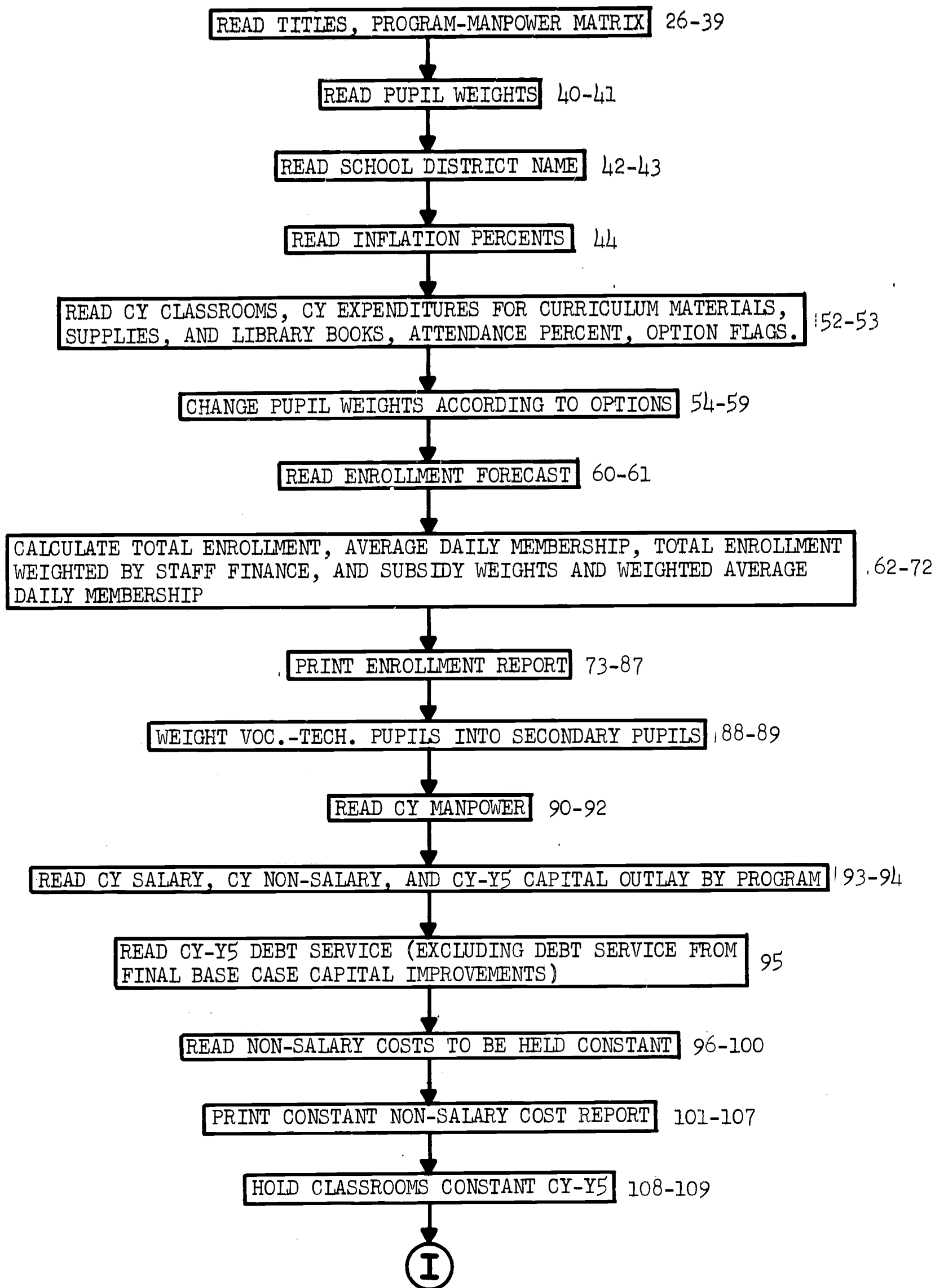
### DOCUMENTATION FOR THE SYSTEMS ANALYST

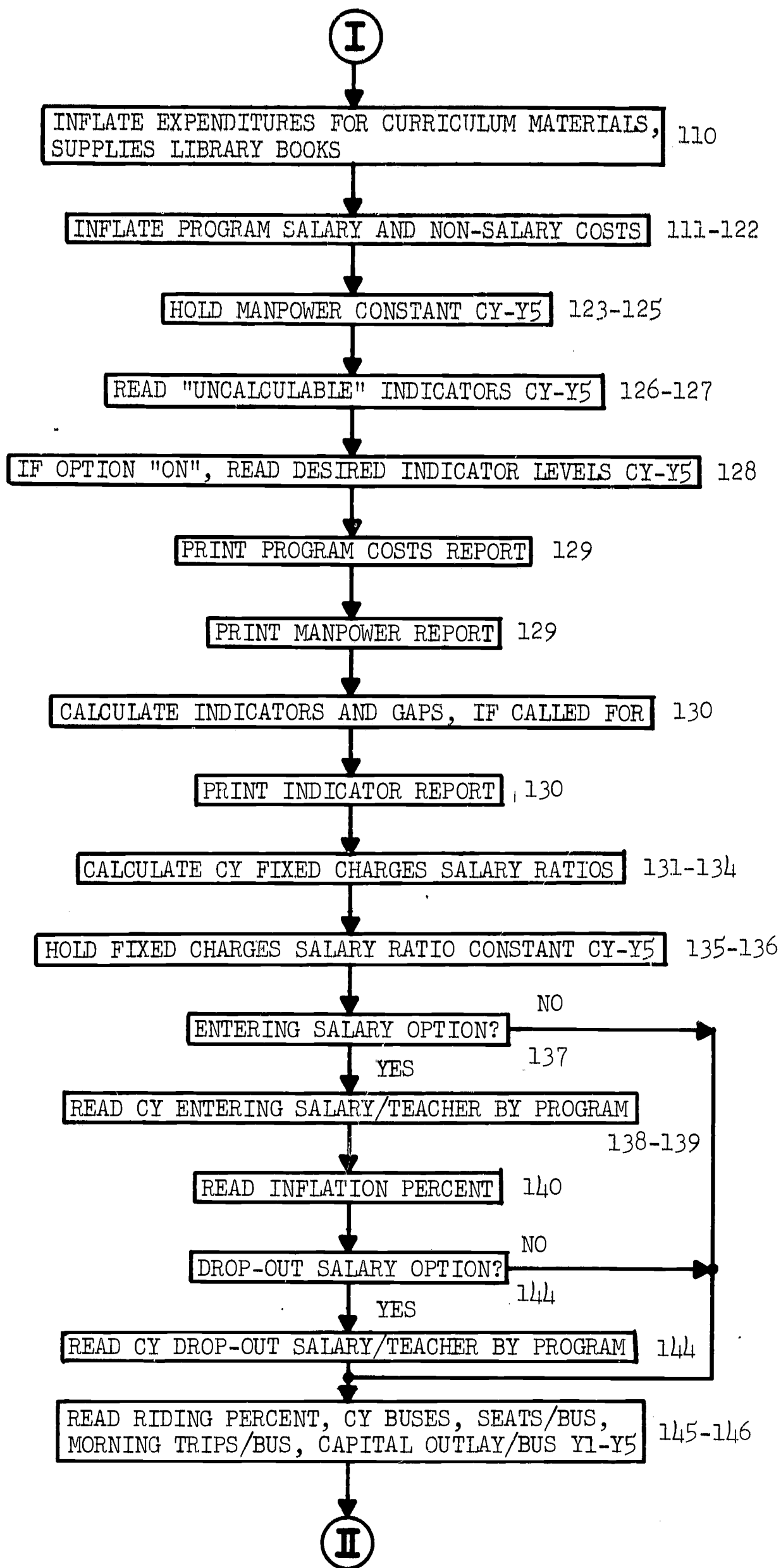
#### Computer Program Flow Chart

Chart 4 exhibits a flow diagram of the MAIN routine of EPPBS for School Districts, Version II, Model 1. The numbers to the right of each box of the chart are the corresponding statement numbers found on the left margin of the first seventeen pages of the "Commented Listing of the Computer Program" that follows this chart.

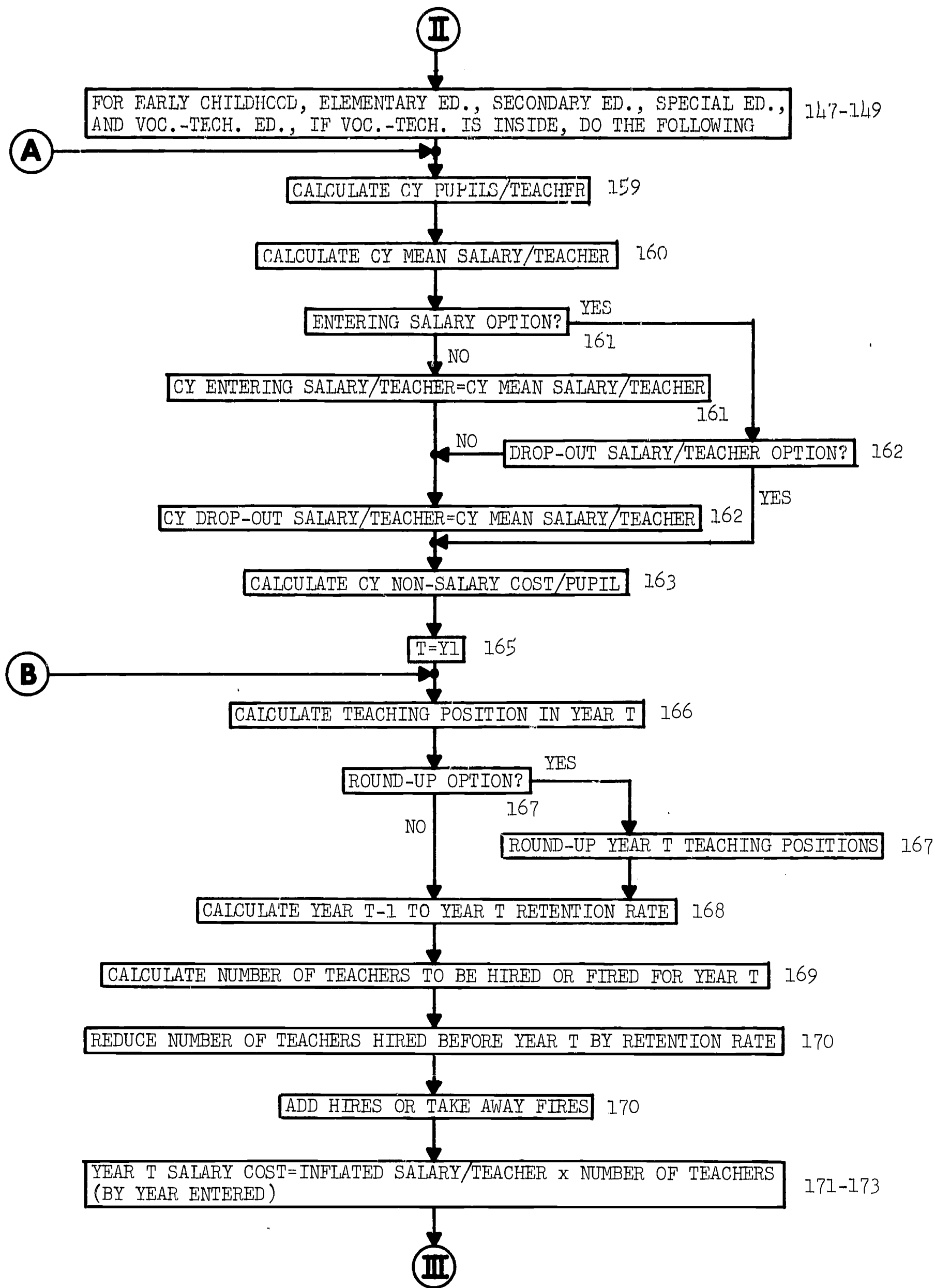
# CHART 4

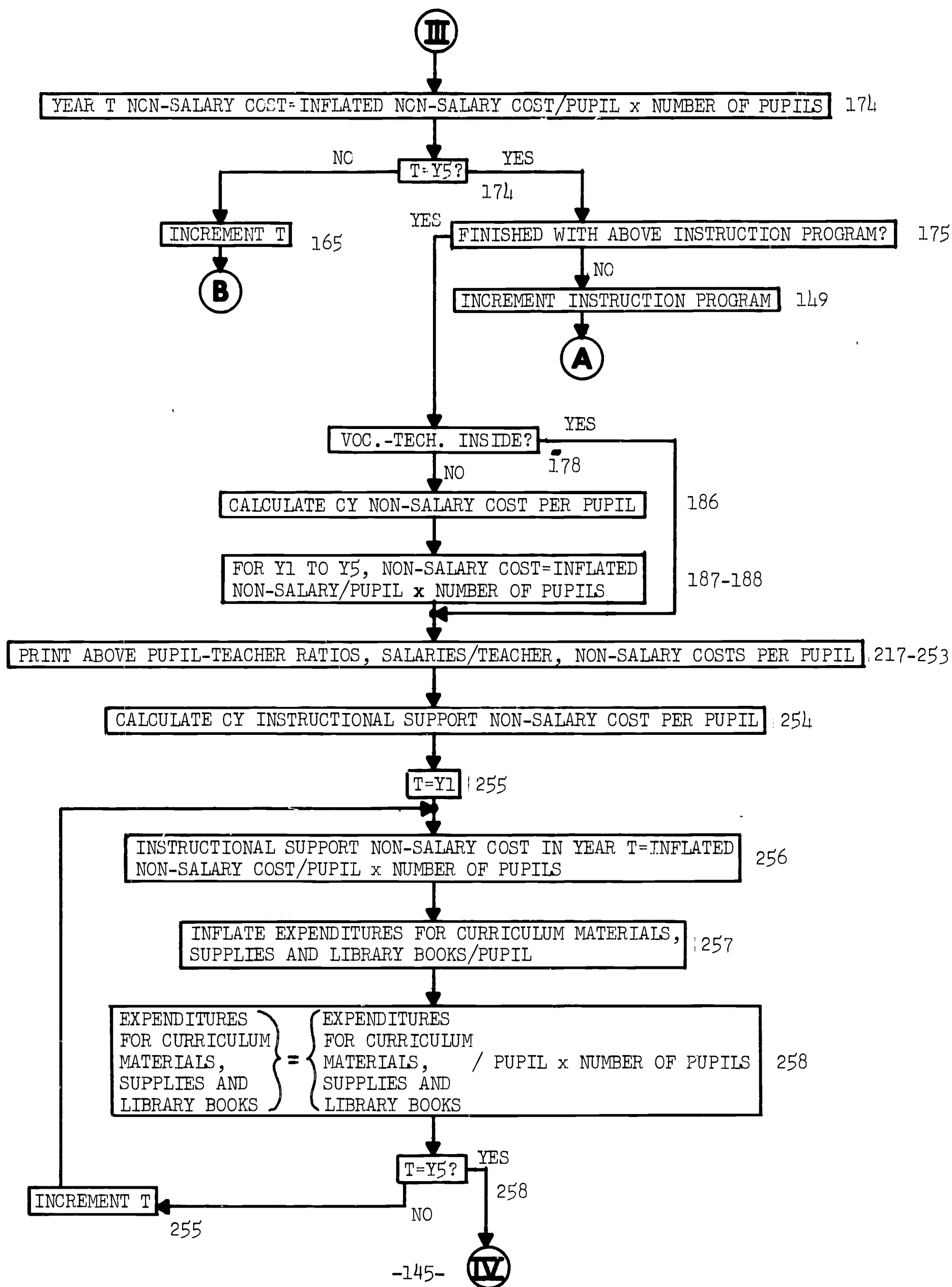
## FLOWCHART OF THE COMPUTER PROGRAM

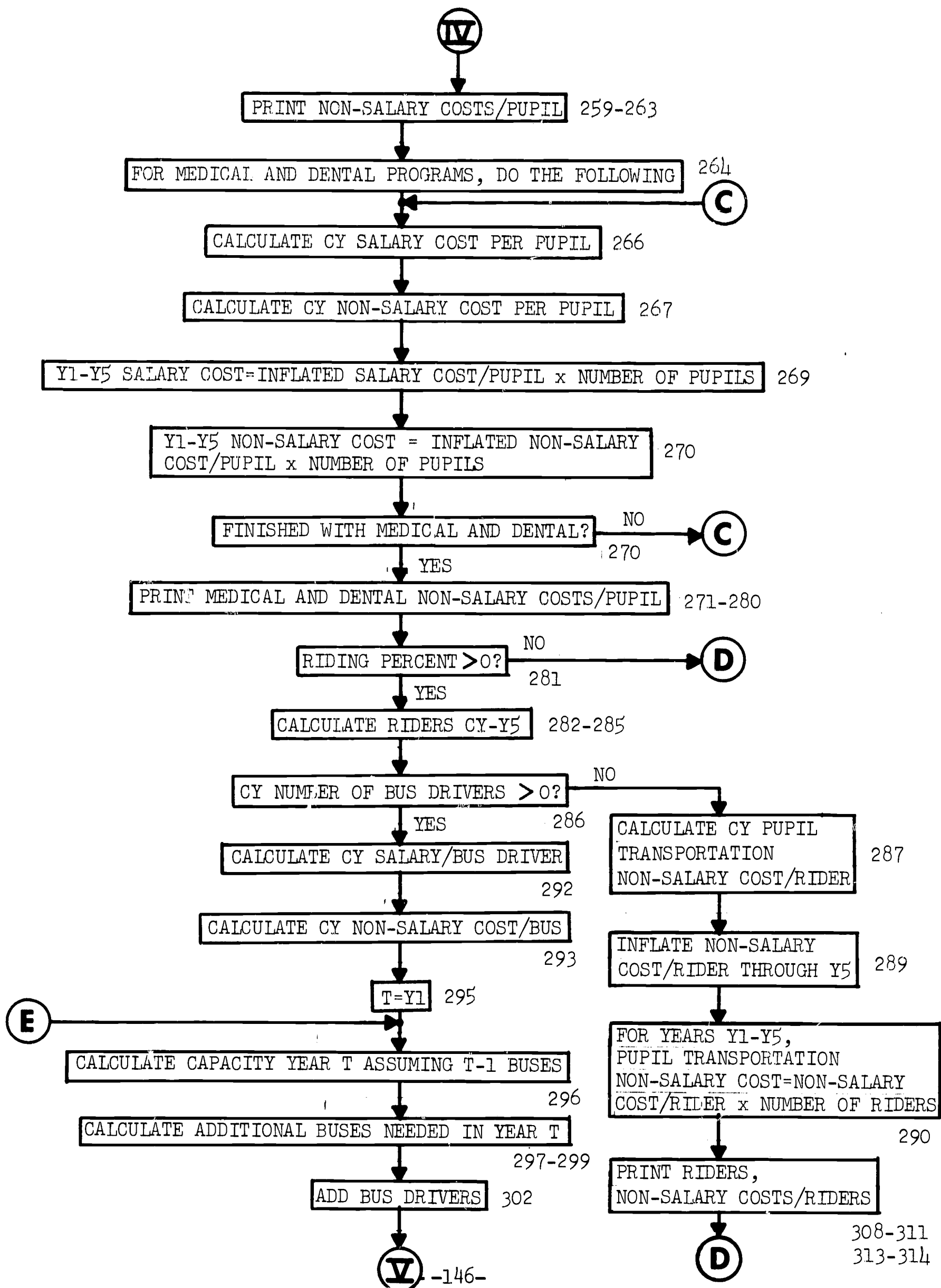


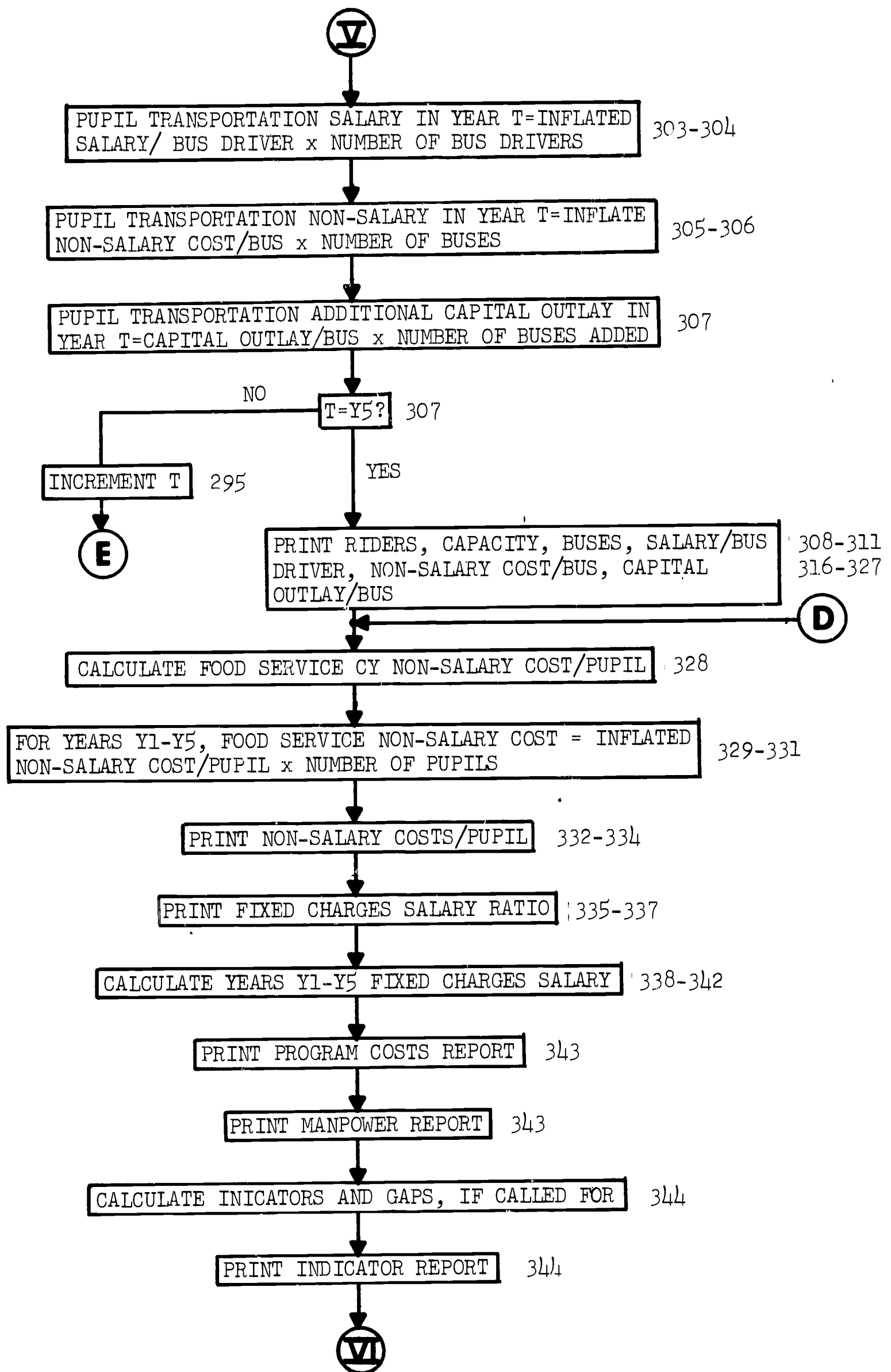


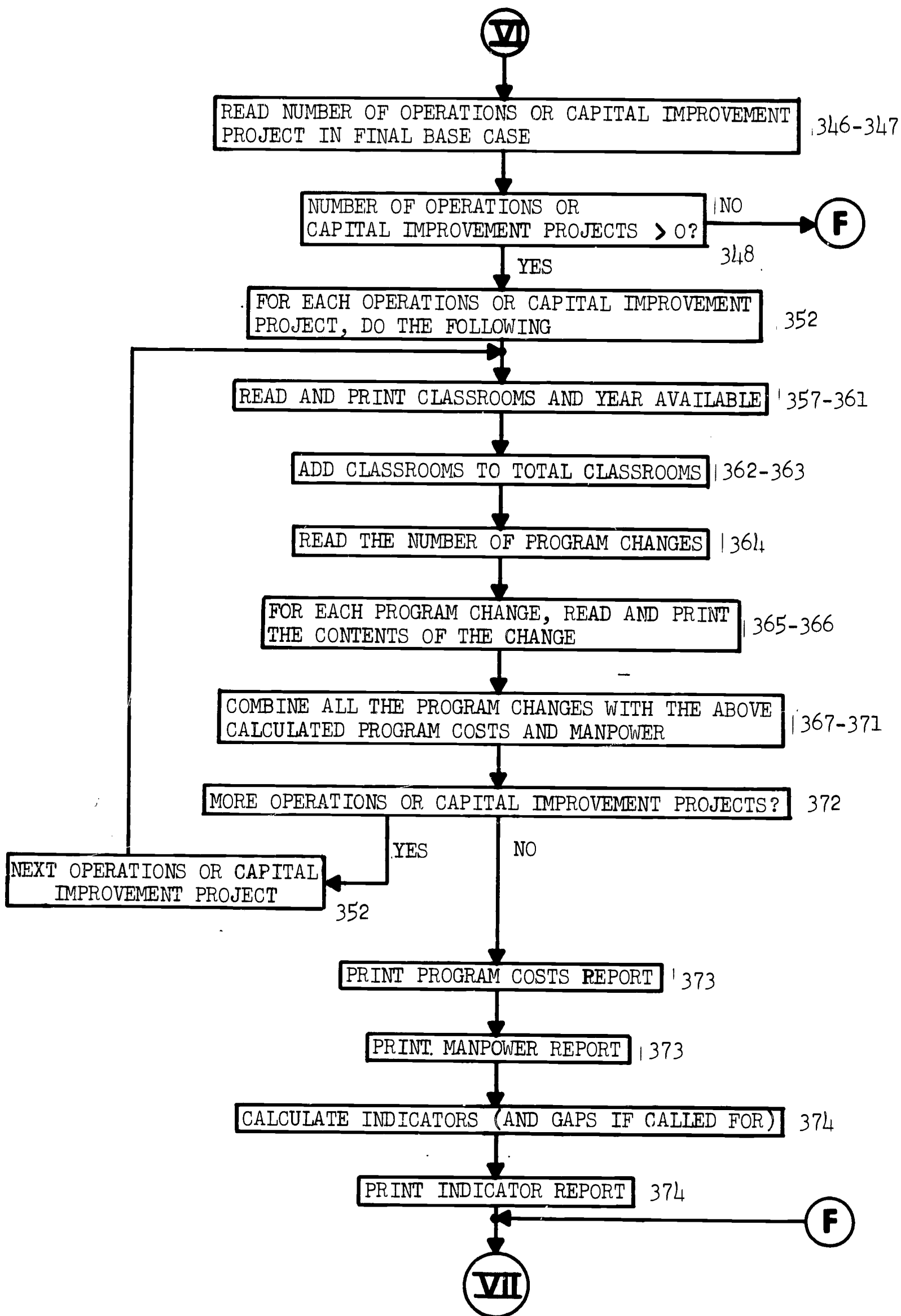


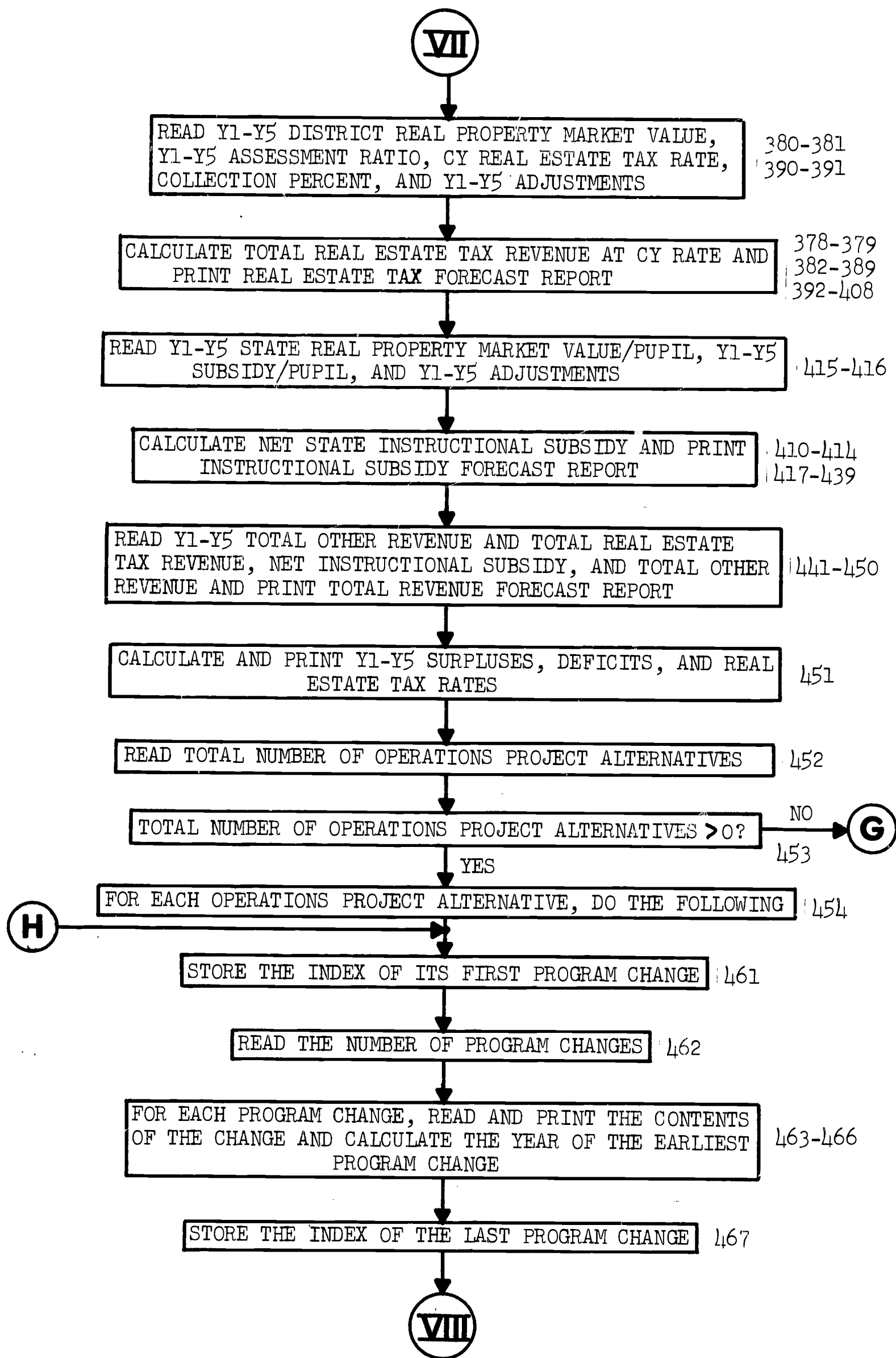




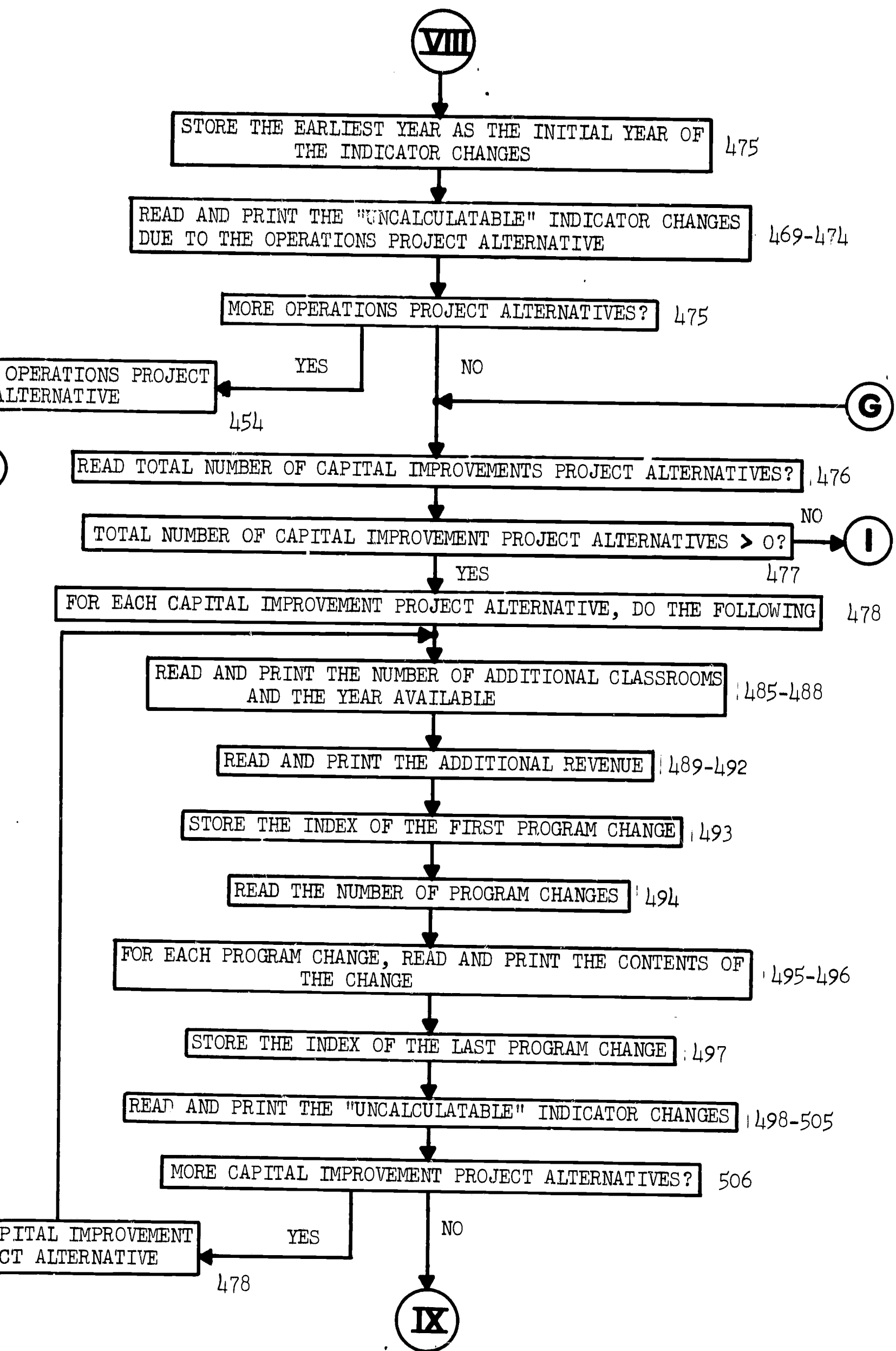


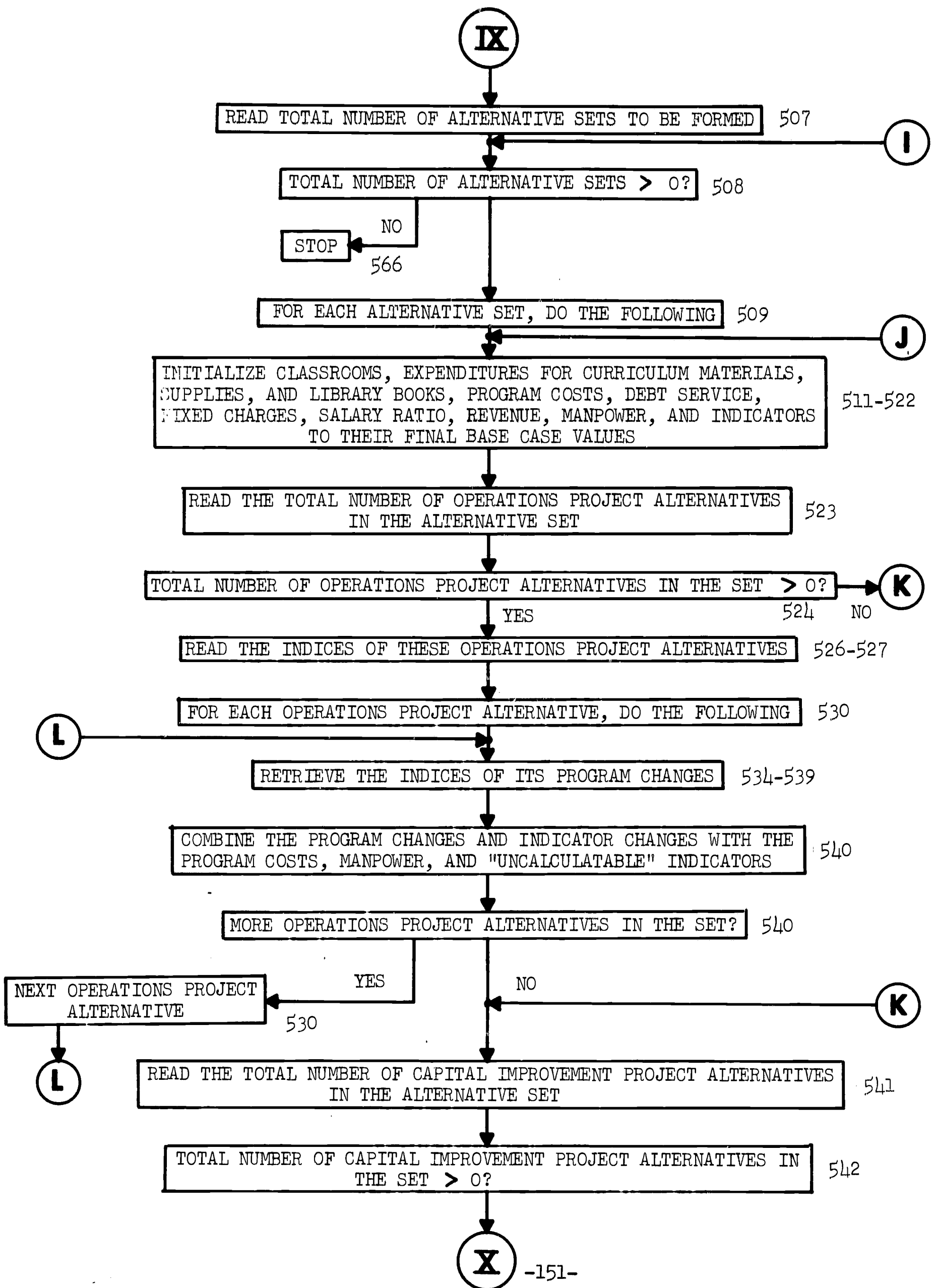


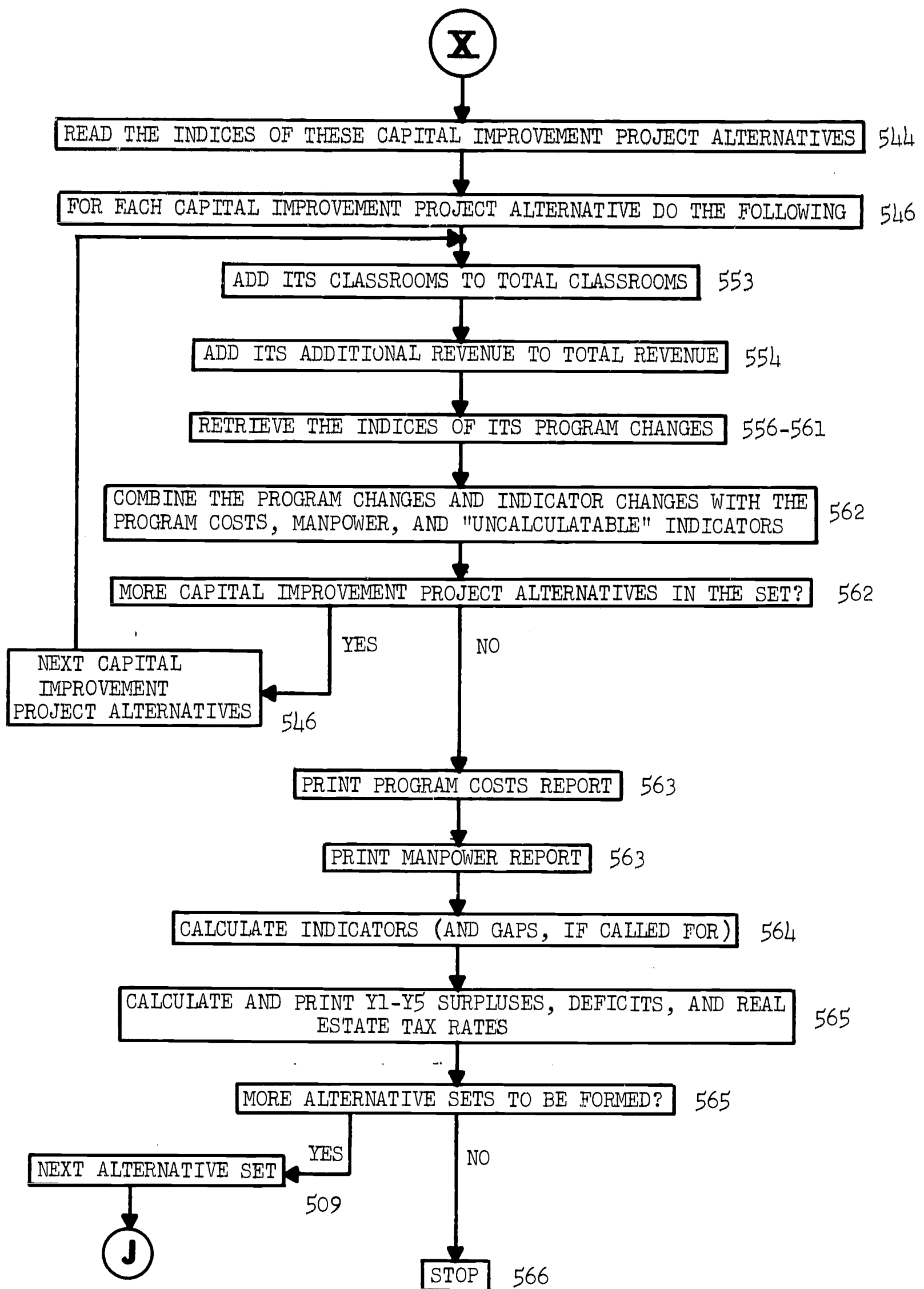












## Commented Listing of the Computer Program

A commented listing of EPPBS for School Districts, Version II, Model 1 computer program is exhibited the following pages. The computer language is FORTRAN IV G-Level. The MAIN routine and its subroutines appear in the following order:

<u>Routine or Subroutine</u>	<u>Pages</u>
MAIN.....	A0001 - 0017
DHLE.....	B0001
RNDUP.....	C0001
ABCMEN.....	D0001
PGINPT.....	E0001 - 0003
PACOMB.....	F0001 - 0002
SMPRNT.....	G0001 - 0002
CALIND.....	H0001 - 0002
REVALT.....	I0001 - 0002





```
      C      READ YEAR TITLES
0034      READ(5,1)(YTITLE(J),J=1,6)
      C      READ MAYPOWER TITLES
0035      DO 3 J=1,17
0036      3 READ(5,1)(MTITLE(J,J),JJ=1,7)
      C      READ INDICATOR TITLES
0037      DO 75 I=1,12
0038      75 READ(5,154)(ITITLE(I,J),J=1,10)
0039      154 FORMAT(10A4)
      C      READ STAFF, FINANCE, AND SUBSIDY WEIGHTS AND VOC.-TECH.-SEC. ED.
      C      WEIGHT
0040      READ(5,4)((PUPWGT(I,J),J=1,6),I=1,3),VOTWGT
0041      4 FORMAT(19F4.0)
      C      SCHOOL DISTRICT DATA BEGINS HERE
      C      READ SCHOOL DISTRICT NAME
0042      READ(5,151)(DTITLE(J),J=1,10)
0043      151 FORMAT(10A4)
      C      READ INFLATION PERCENTS- SALARY, NON-SALARY, AND VOC.-TECH.
      C      NON-SALARY, IF OUTSIDE
0044      READ(5,4)(INFLAT(I,2),I=1,3)
      C      SET ENTERING SAL, INFLATION = SAL. INFLATION PERCENT
0045      INFLAT(4,2)=INFLAT(1,2)
      C      HORIZON = 6. IN TIME SUBSCRIPTS BELOW, I=CY AND 6=Y5
      C      H=6
0046      C      MAKE INFLATION PERCENTS INTO MULTIPLICATIVE INFLATION FACTORS
      C      DO 5 I=1,4
0047      INFLAT(I,1)=1.0
0048      INFLAT(I,2)=1.+INFLAT(I,2)/100.
0049      DO 5 T=3,H
0050      5 INFLAT(I,T)=INFLAT(I,2)*INFLAT(I,T-1)
      C      READ CY CLASSROOMS, CY EXPENDITURES FOR CURR. MATLS., SUPPLIES,
      C      AND LIBRARY BOOKS, ATTENDANCE PERCENT, AND 5 OPTIONS
      C      IVOTIN=1 VOC.-TECH. INSIDE
      C      IVOTIN=0 VOC.-TECH. OUTSIDE
      C      IRNDUP=1 ROUND-UP TEACHERS IN ABC
      C      IRNDUP=0 DO NOT ROUND-UP TEACHERS IN ABC
      C      IINSAL=2 INPUT ENTERING AND DROP-OUT SALARY/TEACHER BELOW
      C      IINSAL=1 INPUT ONLY ENTERING SALARY/TEACHER BELOW
      C      IINSAL=0 INPUT NEITHER
      C      IECD=1 KINDERGARTEN IS DOUBLE SESSION
      C      IECD=0 KINDERGARTEN IS SINGLE-SESSION
      C      ICLGAP=1 INPUT DESIRED INDICATOR LEVELS AND CALCULATE GAPS
      C      ICLGAP=0 DO NOT INPUT DESIRED INDICATOR LEVELS AND DO NOT
      C      CALCULATE INDICATOR GAPS
0052      READ(5,7)(CLSRMS(1,1),ECMSLR(1,1),ATTPT,IVOTIN,IRNDMP,IINSAL,IECD,
      C      ICLGAP
      C      7 FORMAT(F5.0,F8.0,F5.0,F5.0,5I1)
      C      IF KINDERGARTEN IS DOUBLE SESSION, CHANGE KINDERGARTEN STAFF AND
      C      FINANCE WEIGHTS
0054      IF(IECD.EQ.0)GO TO 51
0055      PUPWGT(1,1)=1.0
0056      PUPWGT(2,1)=1.0
      C      IF VOC.-TECH. OUTSIDE, REDUCE VOC.-TECH. WEIGHTS
0057      51 IF(IVOTIN.GT.0)GO TO 153
0058      PUPWGT(1,4)=VOTWGT*PUPWGT(1,4)
0059      PUPWGT(2,4)=VOTWGT*PUPWGT(2,4)
      C      READ PUPIL ENROLLMENT FORECAST. ENROLLMENT CATEGORIES ARE ASSUMED
      C      TO NOT OVERLAP.
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PROGRAM IV 5 LEVEL 1, MOD 3          MAIN          DATE = 69135          05/39/59          PAGE 0003

0050      153 READ(5,8)((PUPILS(J,T),J=1,6),T=1,H)
0061      8 FORMAT(6F10.0)
C      CALCULATE TOTAL ENROLLMENT,ADM, AND TOTAL WEIGHTED ENROLLMENT BY
C      STAFF, FINANCE, AND SUBSIDY WEIGHTS AND WEIGHTED ADM
0062      DO 12 T=1,H
0063      PUPILS(7,T)=0.
0064      DO 10 J=2,6
0065      10 PUPILS(7,T)=PUPILS(7,T)+PUPILS(J,T)
0066      PUPILS(8,T)=(ATTPT/100.)*(PUPILS(7,T)+PUPWGT(1,1)*PUPILS(1,1,T))
0067      PUPILS(7,T)=PUPILS(7,T)+PUPILS(1,1,T)
0068      DO 11 I=1,3
0069      PUPILS(1+8,T)=0.
0070      DO 11 J=1,6
0071      11 PUPILS(1+8,T)=PUPILS(1+8,T)+PUPWGT(I,J)*PUPILS(J,T)
0072      12 PUPILS(12,T)=(ATTPT/100.)*PUPILS(11,T)
C      PRINT THE ENROLLMENT FORECAST REPORT
0073      1000 I=1
0074      WRITE(5,152)((TITLE(J),J=1,10),IPGE
0075      152 FORMAT(1H1,35X,10A4,30X,4HPAGE,13)
0076      WRITE(6,73)((TITLE(J),J=1,6)
0077      73 FORMAT(1H0,41X,13HENRCLMENT FORECAST/1H0,24X,6(9X,A4))
0078      DO 100 J=1,12
0079      100 WRITE(6,13)((TITLE(J,JJ),JJ=1,6),(PUPILS(J,T),T=1,H)
0080      13 FORMAT(1H0,6A4,6(3X,F10.2))
0081      WRITE(6,194)
0082      194 FORMAT(//1H,19X,15SUBSIDIARY DATA)
0083      WRITE(6,195)ATTPT
0084      195 FORMAT(1H0,18HATTENDANCE PERCENT,F10.2/1H0,25X,12HSTAFF WEIGHT,3X,
1      14HFINANCE WEIGHT,3X,14HSURSIDY WEIGHT)
0085      DO 186 J=1,6
0086      186 WRITE(6,197)((TITLE(J,JJ),JJ=1,6),(PUPWGT(I,J),I=1,3)
0087      197 FORMAT(14,6A4,3X,F7.3,2(10X,F7.3))
C      ADD WEIGHTED VOC.-TECH. ENROLLMENT TO SEC. ED. ENROLLMENT FOR USE
C      LATER IN CALCULATING SEC. ED. PUPILS/TEACHER AND NON-SALARY
C      COST PER PUPIL.
0088      DO 14 T=1,H
0089      14 PUPILS(3,T)=PUPILS(3,T)+VOTWGT+PUPILS(4,T)
C      READ CY MANDOWER
0090      READ(5,15)(MNPQWR(1,J),J=1,17)
0091      15 FORMAT(29F4.0)
C      READ TURNOVER RATES FOR NON-TEACHER POSITIONS
0092      READ(5,15)(TRATE(J),J=1,17)
C      READ CY SALARY, CY NON-SALARY, AND CY-Y5 CAPITAL OUTLAY BY PROGRAM
0093      READ(5,17)((PRGCS1(I,P,J),J=1,2),(PRGCS2(I,P,3,T),T=1,H)),
1      P=1,23)
0094      17 FORMAT(8F10.0)
C      READ CY-Y5 DEBT SERVICE
0095      READ(5,17)(DETSR(1,T),T=1,H)
C      SET NUMBER OF PROGRAMS WITH CONSTANT NON-SALARY COSTS = 3
C      SET THE INDICES OF THESE 3 PROGRAMS-PUPIL TRANSPORTATION,
C      FACILITIES, AND FIXED CHARGES
C      READ AMOUNTS TO BE HELD CONSTANT
0096      NPLVL=3
0097      PRGLVL(1)=19
0098      PRGLVL(2)=21
0099      PRGLVL(3)=22
0100      READ(5,17)((ATPLVL(J),J=1,NPLVL)
C      PRINT CONSTANT NON-SALARY COST REPORT
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0101 CALL CHYLE(1)
0102 WRITE(6,191)
0103 191 FORMAT(1H3,8X,30HNCN-SALARY COSTS HELD CONSTANT)
0104 DO 100 J=1,NPLVL
0105 P=ORGLVL(J)
0106 100 WRITE(5,193)(PTITLE(P,J),JJ=1,7),AMTLVL(J)
0107 193 FORMAT(1H3,7X,F12.2)
C
C BASE CASE PROJECTION
C CLASSROOMS HELD CONSTANT
0108 DO 10 T=2,H
0109 CLCRMS(1,T)=CLSRMS(1,1)
C
C INFLATE EXPENDITURES CURR. MATLS., SUPPLIES, LIBRARY BOOKS
0110 10 ECMSLR(1,T)=INFLAT(2,T)*ECMSLR(1,1)
C
C INFLATE PROGRAM COSTS
0111 DO 20 J=1,2
0112 DO 20 P=1,23
0113 IF((J.EQ.1).OR.(NPLVL.EQ.0))GO TO 21
0114 DO 22 N=1,NPLVL
0115 IF(P.EQ.ORGLVL(N))GO TO 23
0116 22 CONTINUE
0117 21 DO 24 T=2,H
0118 24 PRGCST(1,P,J,T)=INFLAT(J,T)*PRGCST(1,P,J,1)
0119 GO TO 20
0120 23 DO 25 T=2,H
0121 25 PRGCST(1,P,J,T)=INFLAT(J,T)*(PRGCST(1,P,J,1)-AMTLVL(N))+AMTLVL(N)
0122 20 CONTINUE
C
C MANPOWER HELD CONSTANT
0123 DO 29 T=2,H
0124 DO 29 J=1,17
0125 29 MANPOWER(1,J,T)=MANPOWER(1,J,1)
C
C READ UNCALCULABLE INDICATORS CY-Y5
0126 READ(5,18)(INDCTR(1,3,T),T=1,H),((INDCTR(1,1,T),T=1,H),I=1,12)
0127 18 FORMAT(6F8.0)
C
C READ DESIRED INDICATOR LEVELS, IF OPTION CALLED FOR.
0128 IF(ICLGAP.EQ.1)READ(5,18)((INDCTR(3,1,T),T=1,H),I=1,12)
C
C TOTAL PROGRAM COSTS, CALCULATE HIRFS, AND PRINT PROGRAM COST
C REPORT AND MANPOWER REPORT
0129 CALL SPRINT(1,1)
C
C CALCULATE AND PRINT INDICATORS AND GAPS
0130 CALL CALING(1,1,ICLGAP)
C
C ADJUSTED BASE CASE PROJECTION
0131 CALCULATE CY RATIO FIXED CHARGES SALARY TO TOTAL SALARY LESS
0132 FIXED CHARGES, MEDICAL, AND DENTAL SALARIES
0133 TOTYSAL=PRGCST(1,24,1,1)
0134 DO 57 P=1,23
0135 57 IF(P.GE.MPR(P,1),EQ.0)TOTYSAL=TOTYSAL-PRGCST(1,P,1,1)
0136 PRSSC(1,1)=PRGCST(1,22,1,1)/TOTYSAL
C
C HOLD RATIO FIXED CHARGES SALARY CONSTANT CY-Y5
0135 DO 28 T=2,H
0136 28 PRSSC(1,T)=PRSSC(1,1)
0137 IF(IINSAL.EQ.0)GO TO 76
C
C IF ENTERING SALARY OPTION USED, READ CY ENTERING SALARY/TEACHER
0138 READ(5,15)(SALPM(2,J),J=1,5)
0139 15 FORMAT(6F6.0)
C
C READ INFLATION PERCENT ON ENTERING SALARY/TEACHER
0140 READ(5,4)INFLAT(4,2)
C
C MAKE INFLATION PERCENT INTO MULTIPLICATIVE FACTORS
0141 INFLAT(4,2)=1.+INFLAT(4,2)/100.
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0142      DO 77 T=3,H
0143      77 INFLAT(4,T)=INFLAT(4,2)*INFLAT(4,T-1)
0144      C IF DROP-OUT SALARY OPTION USED, READ CY DROP-OUT SALARY/TEACHER
0145      76 IF(IINSAL.EQ.2)READ(5,16)(SALPM(3,J),J=1,6)
0146      C READ PERCENT RIDING, CY BUSES, SEATS/BUS, TRIPS/BUS, CAPITAL
0147      C OUTLAY/RUS Y1-Y5
0148      READ(5,170)RIDPCT,RUSES(1),STSPB,ANTRPS,(CLYPRS(T),T=2,H)
0149      170 FORMAT(9F6.0)
0150      C IF VOC.-TECH. OUTSIDE, PUPIL-TEACHER RATIOS, ETC., ONLY APPLIES FOR
0151      C FIRST 3 INSTRUCTIONAL PROGRAMS, IF INSIDE, FIRST 4.
0152      JJ=3
0153      IF(IIVOTIN.EQ.1)JU=4
0154      DO 31 J=1,JU
0155      C SET PROGRAM CODE
0156      P=J+5
0157      C SET MNPPOWER CCODE
0158      JJ=J+2
0159      IF(MNPWR(1,JJ).GT.0.0).AND.(PUPILS(J,1).GT.0.0)GO TO 80
0160      C IF THERE ARE NO TEACHERS OR PUPILS, SKIP THE PROGRAM, I.E., ABC=BC
0161      C ZERO VARIABLES FOR PRINT PURPOSES
0162      PTR(J)=0.0
0163      SALPM(1,J)=0.0
0164      SALPM(2,J)=0.0
0165      SALPM(3,J)=0.0
0166      NSCPD(J)=0.0
0167      GO TO 31
0168      C CALCULATE CY PUPIL-TEACHER RATIO
0169      80 PTR(J)=PUPILS(J,1)/MNPWR(1,JJ,1)
0170      C CALCULATE CY MEAN SALARY/TEACHER
0171      SALPM(1,J)=PRGCT(1,P,1,1)/MNPWR(1,JJ,1)
0172      C IF NOT USE ENTERING OR DROP-OUT SALARY/TEACHER OPTIONS, SET
0173      C ENTERING AND DROP-OUT SALARY/TEACHER = MEAN SALARY/TEACHER
0174      IF(IINSAL.EQ.0)SALPM(2,J)=SALPM(1,J)
0175      IF(IINSAL.EQ.1)SALPM(3,J)=SALPM(1,J)
0176      C CALCULATE NON-SALARY COST/PUPIL
0177      NSCPD(J)=PRGCT(1,P,2,1)/PUPILS(J,1)
0178      C MNTMP STORES THE NUMBER OF TEACHERS BY YEAR ENTERING (1 = CY OR
0179      C BEFORE, 2=Y1, ..., 6=Y5) WHO REMAIN THRU THE YEAR IN QUESTION
0180      C STORE CY TEACHERS IN MNTMP(1)
0181      MNTMP(1)=MNPTRP(1,JJ,1)
0182      DO 81 T=2,H
0183      C CALCULATE TEACHER POSITIONS IN YEAR T
0184      MNPWR(1,JJ,T)=PUPILS(J,T)/PTR(J)
0185      C IF ROUND-UP OPTION USED, ROUND-UP TEACHER POSITIONS
0186      IF(IROUNDMP.GT.0)CALL RNDUP(MNPWR(1,JJ,T))
0187      C CALCULATE FRACTION WHO REMAIN FROM PREVIOUS YEAR
0188      TR=1.-(INDCTR(1,7,T-1)/100.)
0189      C CALCULATE TOTAL TO BE HIRED OR FIRED
0190      TRMP=MNPWR(1,JJ,T)-TR*MNPWR(1,JJ,T-1)
0191      C ABCMEN RETURNS TEACHERS WHO REMAIN FROM PRIOR YEARS PLUS NEWLY
0192      C HIRED IN MNTMP AND DROP-OUTS FROM CY TEACHERS IN TEMP2
0193      CALL ABCMENCY,TR,TEMP,MNTMP,TEMP2)
0194      C CALCULATE SALARIES FOR CY TEACHERS
0195      PRGCT(1,P,1,T)=INFLAT(1,T)*SALPM(1,J)*MNTMP(1)+
0196      C INFLAT(1,T)*(SALPM(1,J)-SALPM(3,J))*TEMP2
0197      1 ADD IN SALARIES DUE TO TEACHERS HIRED SINCE CY
0198      DO 96 TT=2,T
0199      C PRGCT(1,P,1,TT)=PRGCT(1,P,1,T)+INFLAT(1,T-TT+1)*INFLAT(4,TT)*
```

```

1
C
0174 C CALCULATE NON-SALARY COST
0175 81 PRGCSST(1,9,2,T)=INFLAT(2,T)*NSCIPP(J)*PUPILS(J,T)
      31 CONTINUE
C
0176 C FOR EARLY CHILDHOOD, CALCULATE WEIGHTED PUPIL-TEACHER RATIO AND
      C NON-SALARY COST/PUPIL FOR REPORTING PURPOSES
      PTR(1)=PUPWGT(1,1)*PTR(1)
0177 NSCIPP(1)=NSCIPP(1)/PUPWGT(2,1)
0178 IF(I=VOTIN,9,1)GO TO 32
      C IF VDC.-TECH. OUTSIDE, DO THE FOLLOWING
      C ZERO VARIABLES FOR REPORTING PURPOSES
      PTR(4)=0.0
0179 SALPM(1,4)=0.0
0180 SALPM(2,4)=0.0
0181 SALPM(3,4)=0.0
0182 IF(PUPILS(4,1).GT.0.0)GO TO 82
      C IF N) VDC.-TECH. PUPILS, SKIP THE PROGRAM, I.E., ABC=RC
      NSCIPP(4)=0.0
0184 GO TO 32
0185
C
0186 C CALCULATE NON-SALARY COST/PUPIL IN CY
      82 NSCIPP(4)=PRGCSST(1,9,2,1)/PUPILS(4,1)
C
0187 C CALCULATE NON-SALARY COST VI-V5
      DO 33 T=2,H
0188 33 PRGCSST(1,9,2,T)=INFLAT(3,T)*NSCIPP(4)*PUPILS(4,T)
      C TREAT SPECIAL ED. AS OTHER INSTRUCTION PROGRAMS EXCEPT THE PUPILS
      C TO BE USED IS WEIGHTED COMBINATION OF SPEC. ED. 1-6 AND
      C SPEC. ED. 7-12 PUPILS
0189 32 IF((MNPQWR(1,7,1).GT.0.0).AND.((PUPILS(5,1).GT.0.0).OR.
      (PUPILS(6,1).GT.0.0)))GO TO 83
1
0190 PTR(5)=0.0
0191 SALPM(1,5)=0.0
0192 SALPM(2,5)=0.0
0193 SALPM(3,5)=0.0
0194 NSCIPP(5)=0.0
0195 GO TO 84
0196 83 PTR(5)=(PUPWGT(1,5)*PUPILS(5,1)+PUPWGT(1,6)*PUPILS(6,1))/
      MNPQWR(1,7,1)
1
0197 SALPM(1,5)=PRGCSST(1,10,1,1)/MNPQWR(1,7,1)
0198 IF(IINSAL,9,0)SALPM(2,5)=SALPM(1,5)
0199 IF(IINSAL,1,1)SALPM(3,5)=SALPM(1,5)
0200 NSCIPP(5)=PRGCSST(1,10,2,1)/(PUPWGT(2,5)*PUPILS(5,1)+PUPWGT(2,6)*
      PUPILS(6,1))
1
0201 MNTMP(1)=MNPQWR(1,7,1)
0202 DO 34 T=2,H
0203 MNPQWR(1,7,T)=(PUPWGT(1,5)*PUPILS(5,T)+PUPWGT(1,6)*PUPILS(6,T))/
      PTR(5)
1
0204 IF(IRNDMP,GT,0)CALL RNDUP(MNPQWR(1,7,T))
0205 TR=1.-(INDCTR(1,7,T-1)/100.)
0206 TEMP=MNPQWR(1,7,T)-TR*MNPQWR(1,7,T-1)
0207 CALL ARCMEN(T,TR,TEMP,MNTMP,TEMP2)
0208 PRGCSST(1,10,1,T)=INFLAT(1,T)*SALPM(1,5)*MNTMP(1)+
      INFLAT(1,T)*(SALPM(1,5)-SALPM(3,5))*TEMP2
1
0209 DO 97 TT=2,T
0210 97 PRGCSST(1,10,1,TT)=PRGCSST(1,10,1,TT)+INFLAT(1,T-1,TT)*INFLAT(4,TT)*
      SALPM(2,5)*MNTMP(TT)
1
0211 34 PRGCSST(1,10,2,1)=INFLAT(2,1)*NSCIPP(5)*
      (PUPWGT(2,5)*PUPILS(5,1)+PUPWGT(2,6)*PUPILS(6,1))
1
      C CONTINUING PROGRAM IN ARC PROJECTION

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C      ZERO VARIABLES FOR REPORTING PURPOSES
0212      94 PTR(6)=0.
0213      SALPM(1,6)=0.0
0214      SALPM(2,6)=0.0
0215      SALPM(3,6)=0.0
0216      NSCPP(6)=0.
C      PRINT ABC TITLE
0217      CALL DHTLE(2)
C      FOR ALL THE INSTRUCTION PROGRAMS, DO THE FOLLOWING
0218      DO 120 J=1,5
C      PRINT PROGRAM NAME
0219      WRITE(6,121)(PTITLE(J+5,JJ),JJ=1,7)
0220      121 FORMAT(1H9,25X,27HSUBSIDIARY DATA ON PROGRAM=,7A4)
C      PRINT PUPIL-TEACHER RATIO
0221      WRITE(6,122)PTR(J)
0222      122 FORMAT(1H ,19HPUPIL-TEACHER RATIO,F10.2)
C      PRINT YEAR TITLES
0223      WRITE(6,123)(YTITLE(JJ),JJ=1,6)
0224      123 FORMAT(1H ,33X,6(7X,A4))
C      CALCULATE MEAN SALARY/TEACHER Y1-Y5 FOR PRINTING
0225      DO 140 T=1,H
0226      140 PGSALS(1,T)=SALPM(1,J)*INFLAT(1,T)
C      PRINT MEAN SALARY/TEACHER Y1-Y5
0227      WRITE(6,101)(PGSALS(1,T),T=1,H)
0228      101 FORMAT(1H ,33HMEAN SALARY/TEACHER IN SYSTEM AT CY,6(3X,F8.2))
C      IF DROP-OUT SALARY/TEACHER OPTION NOT USED OR THE PROGRAM DID NOT
C      TAKE PART IN ABC SALARY PROJECTION BECAUSE OF NO TEACHERS OR
C      PUPILS WERE SPECIFIED OR IF THE PROGRAM IS VOC.-TECH. AND IT
C      IS OUTSIDE, DO NOT CALCULATE AND PRINT ENTERING
C      SALARY/TEACHER
0229      IF(IINSAL.NE.2)GO TO 85
0230      DO 146 T=2,H
0231      146 PGSALS(1,T)=SALPM(3,J)*INFLAT(1,T)
C      WRITE(6,147)(PGSALS(1,T),T=2,H)
0232      147 FORMAT(1H ,33HDEPARTING SAL/TECHER FOR CY TCHERS,11X,5(3X,F8.2))
0233      85 IF(IINSAL.EQ.0).OR.(SALPM(2,J).EQ.0.0)GO TO 124
C      CALCULATE ENTERING SALARY/TEACHER BY YEAR ENTERED OVER TIME
0235      DO 141 T=2,H
0236      141 PGSALS(1,T)=SALPM(2,J)*INFLAT(4,T)*INFLAT(1,T*-T+1)
C      PRINT THE ENTERING SALARY/TEACHER TRIANGULAR MATRIX
0237      WRITE(6,125)(PGSALS(2,T),T=2,H)
0238      125 FORMAT(1H ,20HSALARY/TEACHER ENTERING IN Y1,15X,5(3X,F8.2))
0239      WRITE(6,126)(PGSALS(3,T),T=3,H)
0240      126 FORMAT(1H ,29HSALARY/TEACHER ENTERING IN Y2,26X,4(3X,F8.2))
0241      WRITE(6,127)(PGSALS(4,T),T=4,H)
0242      127 FORMAT(1H ,29HSALARY/TEACHER ENTERING IN Y3,37X,3(3X,F8.2))
0243      WRITE(6,128)(PGSALS(5,T),T=5,H)
0244      128 FORMAT(1H ,29HSALARY/TEACHER ENTERING IN Y4,48X,2(3X,F8.2))
0245      WRITE(6,129)PGSALS(6,6)
0246      129 FORMAT(1H ,29HSALARY/TEACHER ENTERING IN Y5,59X,3X,F8.2)
0247      CALCULATE NON-SALARY COST/PUPIL Y1-Y5 AND PRINT, USING THE 3RD
C      INFLATION FACTOR IF THE PROGRAM IS VOC.-TECH. AND IT IS
C      OUTSIDE
0248      124 JJ=2
0249      IF((J.FQ.4).AND.(IVOTIN.EQ.0))JJ=3
0250      DO 142 T=1,H
0251      142 PGSALS(1,T)=NSCPP(J)*INFLAT(JJ,T)
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0252      120 WRITE(6,130)(PGNSAL(1,T),T=1,H)
0253      130 FORMAT(1H,21HNON-SALARY COST/PUPIL,12X,6(3X,F8.3))
C        CALCULATE INSTRUCTIONAL SUPPORT CY NON-SALARY COST/PUPIL USING
C        TOTAL WEIGHTED (FINANCE) ENROLLMENT
0254      NSCPP(7)=PRGCS(1,12,2,1)/PUPILS(10,1)
0255      DO 103 T=2,H
C        CALCULATE NON-SALARY COST Y1-Y5
0256      PRGCS(1,12,2,T)=INFLAT(2,T)*NSCPP(7)*PUPILS(10,T)
C        CALCULATE CURR. MATLS., SUPPLIES, LIB. RKS./WEIGHTED PUPIL Y1-Y5
C        IN ABC
0257      INDCTR(1,5,T)=INFLAT(2,T)*INDCTR(1,5,T-1)
C        CALCULATE THE DOLLAR EXPENDITURE ON THESE MATERIALS
0258      103 ECMSLB(1,T)=INDCTR(1,5,T)*PUPILS(10,T)
0259      WRITE(6,121)(PTITLE(12,JJ),JJ=1,7)
C        PRINT YEAR TITLES
0260      WRITE(6,123)(VTITLE(JJ),JJ=1,6)
C        CALCULATE NON-SALARY CCST/PUPIL Y1-Y5 AND PRINT
0261      DO 143 T=1,H
0262      143 PGNSAL(1,T)=NSCPP(7)*INFLAT(2,T)
0263      WRITE(6,130)(PGNSAL(1,T),T=1,H)
C        MEDICAL AND DENTAL PROGRAMS IN ABC
0264      DO 56 J=8,9
0265      P=J+6
C        CALCULATE CY SALARY COST/PUPIL USING TOTAL WEIGHTED (STAFF)
C        ENROLLMENT
0266      SLCPP(J-7)=PRGCS(1,P,1,1)/PUPILS(9,1)
C        CALCULATE CY NON-SALARY COST/PUPIL USING TOTAL WEIGHTED (FINANCE)
C        ENROLLMENT
0267      NSCPP(J)=PRGCS(1,P,2,1)/PUPILS(10,1)
0268      DO 56 T=2,H
C        CALCULATE SALARY CCST Y1-Y5
0269      PRGCS(1,P,1,T)=INFLAT(1,T)*SLCPP(J-7)*PUPILS(9,T)
C        CALCULATE NON-SALARY COST Y1-Y5
0270      56 PRGCS(1,P,2,T)=INFLAT(2,T)*NSCPP(J)*PUPILS(10,T)
0271      DO 131 J=8,9
C        PRINT PROGRAM TITLE
0272      WRITE(6,121)(PTITLE(J+6,JJ),JJ=1,7)
C        PRINT YEAR TITLES
0273      WRITE(6,123)(VTITLE(JJ),JJ=1,6)
C        CALCULATE AND PRINT Y1-Y5 SALARY COST/PUPIL
0274      DO 144 T=1,H
0275      144 PGSALS(1,T)=SLCPP(J-7)*INFLAT(1,T)
0276      WRITE(6,132)(PGSALS(1,T),T=1,H)
0277      132 FORMAT(1H,17HSALARY COST/PUPIL,16X,6(3X,F8.3))
C        CALCULATE AND PRINT Y1-Y5 NON-SALARY COST/PUPIL
0278      DO 145 T=1,H
0279      145 PGNSAL(1,T)=NSCPP(J)*INFLAT(2,T)
0280      131 WRITE(6,130)(PGNSAL(1,T),T=1,H)
C        THE TEST ON USING BUSING PROCEDURES IN ABC IS WETHER THE RIDING
C        PERCENT IS ZERO OR POSITIVE.
0281      IF(RIDPCT.EQ.0.0)GO TO 180
0282      DO 171 T=1,H
C        RIDERS EQUALS AN INPUT PERCENTAGE OF TOTAL ENROLLMENT LESS 1/2
C        KINDERGARTEN IF SINGLE SESSION
0283      RIDERS(T)=PUPILS(7,T)
0284      IF(PUPWGT(1,T).LT.1.0)RIDERS(T)=RIDERS(T)-PUPWGT(1,1)*PUPILS(1,T)
0285      171 RIDERS(T)=(RIDPCT/100.)*RIDERS(T)
0286      IF(MNDJWR(1,15,1).GT.0.0)GO TO 241

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PGNSAL(1,1)=PRGST(1,19,2,1)/RIDERS(1)
DO 242 T=2,H
  PGNSAL(1,T)=INFLAT(2,T)*PGNSAL(1,1)
  PRGST(1,19,2,T)=PGNSAL(1,T)*RIDERS(T)
  GO TO 243
C
C CALCULATE CY SALARY/BUS DRIVER
240 PGNSALS(1,1)=PRGST(1,19,1,1)/MNPWR(1,15,1)
C
C CALCULATE CY NON-SALARY COST/RUS
PGNSAL(1,1)=PRGST(1,19,2,1)/RUSES(1)
CAPCTY(2,1)=ANTRPS*STSPB*BUSES(1)
DO 240 T=2,H
C
C CALCULATE TOTAL CAPACITY BEFORE ADDING BUSES BY THE PRODUCT OF
C TRIPS/BUS, SEATS/BUS, AND NUMBR OF BUSES
CAPCTY(1,T)=ANTRPS*STSPB*BUSES(T-1)
C
C CALCULATE ADDITIONAL BUSES. NOTE THE TRUNCATION. IT MEANS THERE
C MAY BE EXCESS RIDERS TO THE MAXIMUM OF ONE BUS CAPACITY
J=(RIDERS(T)-CAPCTY(1,T))/(ANTRPS*STSPB)
TEMP=J
C
C IF ADDITIONAL BUSES IS NEGATIVE, ZERO IT
IF(TEMP.LT.0.0)TEMP=0.0
C
C CALCULATE CAPACITY AFTER ADDING BUSES
CAPCTY(2,T)=CAPCTY(1,T)+ANTRPS*STSPB*TEMP
C
C ADD THE BUSES
BUSES(T)=BUSES(T-1)+TEMP
C
C ADD THE BUS DRIVERS
MNPWR(1,15,T)=MNPWR(1,15,T-1)+TEMP
C
C CALCULATE SALARY/BUS DRIVER Y1-Y5
PGNSALS(1,T)=INFLAT(1,T)*PGSALS(1,1)
C
C CALCULATE SALARY COST
PRGST(1,19,1,T)=PGSALS(1,T)*MNPWR(1,15,T)
C
C CALCULATE NON-SALARY CCST/BUS Y1-Y5
PGNSAL(1,T)=INFLAT(2,T)*PGNSAL(1,1)
C
C CALCULATE NON-SALARY COST
PRGST(1,19,2,T)=PGNSAL(1,T)*BUSES(T)
C
C CALCULATE ADDITIONAL CAPITAL OUTLAY
240 PRGST(1,19,3,T)=PRGST(1,19,3,T)+CLYPBS(T)*TEMP
C
C PRINT PUPIL TRANSPORTATION PROGRAM TITLE
243 WRITE(6,121)(PTITLE(19,JJ),JJ=1,7)
C
C PRINT YEAR TITLES
WRITE(6,123)(YTITLE(JJ),JJ=1,6)
C
C PRINT RIDERS CY-Y5
WRITE(6,172)(RIDERS(T),T=1,H)
310
311 172 FORMAT(1H,6HRIDERS,27X,6(3X,F8.2))
C
C IF(MNPWR(1,15,1).GT.0.0)GO TO 244
WRITE(6,245)(PGNSAL(1,T),T=1,H)
312
313
314 245 FORMAT(1H,21HNON-SALARY COST/RIDER,12X,6(3X,F8.2))
315
316 GO TO 180
C
C PRINT CAPACITY BEFORE AND AFTER ADDING BUSES Y1-Y5
244 WRITE(6,173)(CAPCTY(1,T),T=2,H)
317
318 173 FORMAT(1H,24HCAPACITY BEFORE ADDING BUSES,16X,5(3X,F8.2))
C
C WRITE(6,174)(CAPCTY(2,T),T=1,H)
319
320 174 FORMAT(1H,27HCAPACITY AFTER ADDING BUSES, 6X,6(3X,F8.2))
C
C PRINT RUSES CY-Y5
WRITE(6,175)(BUSES(T),T=1,H)
321
322 175 FORMAT(1H,5HBUSES,24X,6(3X,F8.2))
C
C PRINT CY-Y5 SALARY/BUS DRIVER
WRITE(6,176)(PGSALS(1,T),T=1,H)
323
324 176 FORMAT(1H,17HSALARY/BUS DRIVER,16X,6(3X,F8.2))

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0324 C PRINT NON-SALARY COST/RUS CY-Y5
0325 WRITE(6,177)(PGNSAL(1,T),T=1,H)
      177 FORMAT(14,'NON-SALARY COST/RUS,14X,5(3X,F8.2))
0326 C PRINT CAPITAL OUTLAY/RUS Y1-Y5
      WRITE(6,178)(CLYPBS(T),T=2,H)
0327 178 FORMAT(14,'18HCAPITAL OUTLAY/RUS,26X,5(3X,F8.2))
      C CALCULATE F009 SERVICE NON-SALARY CCST/PUPIL USING TOTAL WEIGHTED
      (FINANCE) ENRCLMENT
0328 180 PGNSAL(1,1)=PRGCS(1,20,2,1)/PUPILS(10,1)
0329 DO 179 T=2,H
      C CALCULATE NON-SALARY CCST/PUPIL Y1-Y5
      PGNSAL(1,T)=INFLAT(2,T)*PGNSAL(1,1)
      C CALCULATE NON-SALARY COST
0331 179 PRGCS(1,20,2,T)=PGNSAL(1,T)*PUPILS(10,T)
      C PRINT PROGRAM TITLE
0332 WRITE(6,121)(PTITLE(20,JJ),JJ=1,7)
      C PRINT YEAR TITLES
0333 WRITE(6,123)(YTITLE(JJ),JJ=1,6)
      C PRINT NON-SALARY COST/PUPIL CY-Y5
0334 WRITE(6,130)(PGNSAL(1,T),T=1,H)
      C PRINT FIXED CHARGES PROGRAM TITLE
0335 WRITE(6,121)(PTITLE(22,JJ),JJ=1,7)
      C PRINT FIXED CHARGES RATIO
0336 WRITE(6,30)RRSSC(1,1)
0337 30 FORMAT(1H,'82HCY FIXED CHARGES SALARY/TOTAL SALARY - FIXED CHARGES
      1, MEDICAL, AND DENTAL SALARIES,F12.4)
      C CALCULATE ABC FIXED CHARGES SALARY COST Y1-Y5
      DO 36 T=2,H
      TOTSA=0.
0338 DO 37 P=1,2,3
0339 37 IF(PRGMPR(P,1).GT.C)TOTSA=TOTSAL+PRGCS(1,P,1,T)
      36 PRGCS(1,22,1,T)=RRSSC(1,T)*TOTSA
      C TOTAL PROGRAM COSTS, CALCULATE HIRES, AND PRINT PROGRAM COST
      REPORT AND MANPOWER REPORT
0343 CALL SMRPT(1,2)
      C CALCULATE AND PRINT INDICATORS AND GAPS
0344 CALL CALIND(1,2,ICLGAP)
      C FINAL BASE CASE PROJECTION
      C INITIALIZE TOTAL NUMBER OF PROGRAM CHANGES
      NPST=0
0345 C READ THE NUMBER OF FBC OPERATIONS AND CAPITAL IMPROVEMENT PROJECTS
      READ(5,2)NCPIMP
      2 FORMAT(I2)
0346 C IF NO PROJECTS, GO TO REVENUE FORECAST
      IF(NCPIMP.EQ.0)GO TO 42
0347 C THE INDEX OF THE INDICATOR CHANGES IS 1
      C ZERO CHANGES IN INDICATORS. THE PART OF PACOMB USED FOR INDICATORS
      C IS NOT USED IN FBC
      DO 48 J=1,7
0349 DO 48 T=2,H
0350 48 PAINDR(1,J,T)=0.C
      C FOR EACH PROJECT, DO THE FOLLOWING
      DO 43 N=1,NCPIMP
0352 C PRINT FBC TITLE
      CALL CHTLE(3)
0353 C READ PROJECT TITLE
      READ(5,151)(PACPTL(1,J),J=1,10)
0354 C PRINT PROJECT NUMBER AND TITLE
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0355 WRITE(6,160)N,(PACPTL(1,J),J=1,10)
0356 160 FORMAT(1H0,5X,49HOPERATIONS OR CAPITAL IMPROVEMENT PROJECT NUMBER
1,12,5X,10A4)
0357 C READ ADDITIONAL CLASSROOMS AVAILABLE BEGINNING WHAT YEAR
0358 READ(5,44)IYEAR,ACLSRM
0359 44 FORMAT(12,F6.0)
0359 C INCREMENT YEAR. REMEMBER, COMPUTER-WISE, 1=CY, 2=Y1,....,6=Y5
IYEAR=IYEAR+1
0359 C PRINT ADDITIONAL ROOMS AND WHEN AVAILABLE
WRITE(6,161)ACLSRM,YITITLE(IYEAR)
0361 161 FORMAT(1H0,F6.0,21H CLASSROOMS BEGINNING,A4)
0362 C ADD THE ROOMS TO TOTAL ROOMS
DO 45 T=IYEAR,H
0363 45 CLSRMS(I,T)=CLSRMS(I,T)+ACLSRM
0363 C READ THE TOTAL NUMBER OF PROGRAM CHANGES DUE TO THIS CAP. IMP.
0364 READ(5,2)NPROG
0365 C READ AND PRINT THE PROGRAM CHANGES
DO 46 J=1,NPROG
0366 46 CALL PGINDT
C STORE THE YEAR WHEN ROOMS AVAILABLE AS THE INITIAL YEAR OF THE
C INDICATOR CHANGES OF THIS CAP. IMP. THIS IS NOT REALLY USED
0367 C INOVR(1)=IYEAR-1
C NUMBER OF PROGRAM CHANGES TO BE COMBINED EQUALS TOTAL NUMBER OF
C PROGRAM CHANGES PREVIOUSLY STORED.
NPRGST=NPLST
0369 C STORE THE INDICES OF THESE CHANGES.
DO 47 J=1,NPRGST
0370 47 PROGST(J)=J
C COMBINE THE PROGRAM AND INDICATOR CHANGES WITH THE ABOVE
C PROGRAM COSTS, MANPOWER, AND INDICATORS.
0371 C CALL PACOMR(1,NPRGST,1)
C RESET TOTAL NUMBER OF PROGRAM CHANGES
0372 43 NPLST=0
C TOTAL PROGRAM COSTS, CALCULATE HIRES, AND PRINT PROGRAM COST
C REPORT AND MANPOWER REPORT
0373 C CALL SMPRNT(1,3)
C CALCULATE AND PRINT INDICATORS AND GAPS
0374 C CALL CALIND(1,3,ICLGAP)
C REVENUE FORECAST
0375 42 CALL DHTLE(3)
0376 RVENUE(1,1)=0.0
C ZERO SURPLUS FROM CY ASSUMED
0377 SPLSCY=0.0
C READ ESTATE TAX REVENUE FORECAST
0378 WRITE(6,203)(YITITLE(J),J=2,H)
0379 203 FORMAT(1H0,46X,16HREVENUE FORECAST/1H0,47X,15HREAL ESTATE TAX/1H0,
132X,5(11X,A4))
C READ AND PRINT Y1-Y5 DISTRICT REAL PROPERTY MARKET VALUE AND
C Y1-Y5 ASSESSMENT RATIO
0380 READ(5,49)(RLPRPV(1,T),T=2,H),(ASSPCT(T),T=2,H)
0381 49 FORMAT(5F9.0/5F5.0)
0382 WRITE(6,204)(RLPRPV(1,T),T=2,H)
0383 204 FORMAT(1H0,30HDIST. REAL PROPERTY MKT. VALUE,2X,5(3X,F12.2))
0384 WRITE(6,202)(ASSPCT(T),T=2,H)
0385 202 FORMAT(1H0,16HASSESSMENT RATIO,16X,5(8X,F7.3))
C CALCULATE AND PRINT TAXABLE ASSESSED VALUE
0386 DO 206 T=2,H
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0387      206 RVPMLL(T)=ASSPCT(T)*RLPRPV(1,T)
0388      WRITE(6,207)(RVPMLL(T),T=2,H)
0389      207 FORMAT(1H0,22HTAXABLE ASSESSED VALUE,1X,5(3X,F12.2))
C      READ CY REAL ESTATE TAX RATE (MILLS), COLLECTION PERCENT, AND
C      Y1-Y5 ADJUSTMENTS TO THE GROSS REAL ESTATE TAX
0390      READ(5,208)RESTTX(1),COLPCT,(ADJMT(T),T=2,H)
0391      208 FORMAT(2F5.0/5F9.0)
0392      DO 209 T=2,H
C      CALCULATE REVENUE/MILL
0393      RVPMLL(T)=RVPMLL(T)/1000.
C      CALCULATE ASSESSED TAX
0394      209 RVENUE(1,T)=RVPMLL(T)*RESTTX(1)
C      PRINT REVENUE/MILL, CY TAX RATE, AND ASSESSED TAX
0395      WRITE(6,210)(RVPMLL(T),T=2,H)
0396      210 FORMAT(1H0,12HREVENUE/MILL,20X,5(3X,F12.2))
0397      WRITE(6,211)RESTTX(1),(RVENUE(1,T),T=2,H)
0398      211 FORMAT(1H0,19HCY TAX RATE (MILLS),F9.2/1H0,12HASSESSED TAX,20X,
        15(3X,F12.2))
C      CALCULATE GROSS ASSESSED TAX
0399      DO 212 T=2,H
0400      212 RVENUE(1,T)=(COLPCT/100.)*RVENUE(1,T)
C      PRINT COLLECTION PERCENT AND GROSS ASSESSED TAX
0401      WRITE(6,213)COLPCT,(RVENUE(1,T),T=2,H)
0402      213 FORMAT(1H0,18HCOLLECTION PERCENT,F9.2/1H0,18HGROSS ASSESSED TAX,
        114X,5(3X,F12.2))
C      CALCULATE TOTAL REAL ESTATE TAX REVENUE AT CY RATE
0403      DO 214 T=2,H
0404      214 RVENUE(1,T)=RVENUE(1,T)+ADJMT(T)
C      PRINT ADJUSTMENTS
0405      WRITE(6,215)(ADJMT(T),T=2,H)
0406      215 FORMAT(1H0,11HADJUSTMENTS,21X,5(3X,F12.2))
C      PRINT TOTAL REAL ESTATE TAX REVENUE AT CY RATE
0407      WRITE(6,205)(RVENUE(1,T),T=2,H)
0408      205 FORMAT(1H0,32HTOTAL REAL ESTATE TAX AT CY RATE,5(3X,F12.2))
C      BASIC INSTRUCTIONAL SUBSIDY FORECAST
0409      CALL CHYLE(3)
0410      WRITE(6,216)(VTITLE(J),J=2,H)
0411      216 FORMAT(1H0,46X,16HREVENUE FORECAST/1H0,40X,27HBASIC INSTRUCTIONAL
        1SUBSIDY/1H0,32X,5(11X,A4))
C      PRINT DISTRICT REAL PROPERTY MARKET VALUE
0412      WRITE(6,204)(RLPRPV(1,T),T=2,H)
C      PRINT WEIGHTED ADM
0413      WRITE(6,217)(ETITLE(12,J),J=1,6),(PUPILS(12,T),T=2,H)
0414      217 FORMAT(1H0,64X,8X,5(3X,F12.2))
C      READ Y1-Y5 STATE REAL PROPERTY MARKET VALUE/PUPIL,
C      Y1-Y5 SUBSIDY/PUPIL, AND Y1-Y5 ADJUSTMENTS TO STATE SHARE OF
C      DISTRICT FOUNDATION
0415      READ(5,218)(RLPRPV(2,T),T=2,H),(SHOVPP(T),T=2,H),(ADJMT(T),T=2,H)
0416      218 FORMAT(5F6.0/5F4.0/5F9.0)
0417      DO 219 T=2,H
C      CALCULATE DISTRICT REAL PROPERTY MARKET VALUE/PUPIL
0418      RLPRPV(1,T)=RLPRPV(1,T)/PUPILS(12,T)
C      CALCULATE DISTRICT/STATE REAL PROPERTY MARKET VALUE/PUPIL RATIO
0419      ASSPCT(T)=RLPRPV(1,T)/RLPRPV(2,T)
C      PRINT DISTRICT AND STATE REAL PROPERTY MARKET VALUE/PUPIL AND
C      THEIR RATIO
0420      WRITE(6,220)((RLPRPV(J,T),T=2,H),J=1,2),(ASSPCT(T),T=2,H)
0421      220 FORMAT(1H0,32HDIST, PROPERTY MKT. VALUE/PUPIL,5(3X,F12.2)/
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114) 32HSTATE PROPERTY MKT. VALUE/PUPIL ,5(3X,F12.2)/
214) 174DIST. /STATE RATIO,15X,5(5X,F10.6))
C      CALCULATE AND PRINT THE DISTRICT SHARE
0422 01 221 T=2,H
0423 221 ASSPCT(T)=.5*ASSPCT(T)
0424 WRITE(6,222)(ASSPCT(T),T=2,H)
0425 222 FORMAT(1H0,14HDISTRICT SHARE,18X,5(5X,F10.6))
0426 01 223 T=2,H
C      CALCULATE THE AID RATIO
0427 ASSPCT(T)=1.-ASSPCT(T)
C      CALCULATE THE DISTRICT FOUNDATION
0428 223 RVENUE(2,T)=SBDYPP(T)*PUPILS(12,T)
C      PRINT AID RATIO, SUBSIDY/PUPIL AND DISTRICT FOUNDATION
0429 WRITE(6,224)(ASSPCT(T),T=2,H),(SBDYPP(T),T=2,H),
1(RVENUE(2,T),T=2,H)
0430 224 FORMAT(1H0,9HAID RATIO,23X,5(5X,F10.6)/1H0,19HSTATE SUBSIDY/PUPIL,
113X,5(7X,F8.2)/1H0,19HDISTRICT FOUNDATION,13X,5(3X,F12.2))
C      CALCULATE AND PRINT STATE SHARE OF DISTRICT FOUNDATION
0431 01 225 T=2,H
0432 225 RVENUE(2,T)=ASSPCT(T)*RVENUE(2,T)
0433 WRITE(6,226)(RVENUE(2,T),T=2,H)
0434 226 FORMAT(1H0,32HSTATE SHARE OF DIST. FOUNDATION ,5(3X,F12.2))
C      CALCULATE NET INSTRUCTIONAL SUBSIDY
0435 01 227 T=2,H
0436 227 RVENUE(2,T)=RVENUE(2,T)+ADJMT(T)
C      PRINT ADJUSTMENTS
0437 WRITE(6,215)(ADJMT(T),T=2,H)
C      PRINT NET INSTRUCTIONAL SUBSIDY
0438 WRITE(6,228)(RVENUE(2,T),T=2,H)
0439 228 FORMAT(1H0,32HNET STATE INSTRUCTIONAL SUBSIDY ,5(3X,F12.2))
C      TOTAL REVENUE FORECAST
0440 CALL DHTLE(3)
0441 WRITE(6,229)(VTITLE(J),J=2,H)
0442 229 FORMAT(1H0,46X,16HREVENUE FORECAST/1H0,47X,13HTOTAL REVENUE/
11H),32X,5(11X,A4))
C      PRINT TOTAL REAL ESTATE TAX REVENUE AT CY RATE
0443 WRITE(6,205)(RVENUE(1,T),T=2,H)
C      PRINT NET INSTRUCTIONAL SUBSIDY
0444 WRITE(6,228)(RVENUE(2,T),T=2,H)
C      READ TOTAL OTHER REVENUE Y1-Y5
0445 READ(5,249)(OTHRREV(T),T=2,H)
0446 249 FORMAT(5F3.0)
C      CALCULATE TOTAL REVENUE
0447 01 230 T=2,H
0448 230 RVENUE(1,T)=RVENUE(1,T)+RVENUE(2,T)+OTHRREV(T)
C      PRINT TOTAL OTHER REVENUE
0449 WRITE(6,231)(OTHRREV(T),T=2,H),(RVENUE(1,T),T=2,H)
0450 231 FORMAT(1H0,19HTOTAL OTHER REVENUE,13X,5(3X,F12.2)/1H0,
129HTOTAL REVENUE AT CY R.E. RATE,3X,5(3X,F12.2))
C      CALCULATE Y1-Y5 SURPLUSES, DEFICITS, AND TAX RATES
0451 CALL REVALT(1,3)
C      INPUT OPERATIONS PROJECT ALTERNATIVES
0452 READ TOTAL NUMBER OF OPERATIONS PROJECT ALTERNATIVES
0453 READ(5,21)NPANCI
0454 21(NPANCI,50,0)GO TO 38
C      FOR EACH OPERATIONS PROJECT ALTERNATIVE, DO THE FOLLOWING
01 38 N=1,MPANCI
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0455      IPGE=IPGE+1
0456      WRITE(6,162)(OTITLE(J),J=1,10),IPGE
0457      162 FORMAT(1H1,28X,10A4,3X,31HOPEATIONS PROJECT ALTERNATIVES,13X,
           14HPAGE,13)
           C      READ OPERATIONS PROJECT ALTERNATIVE TITLE
0458      READ(5,151)(PACPTL(N,J),J=1,10)
0459      WRITE(6,163)N,(PACPTL(N,J),J=1,10)
0460      163 FORMAT(1H0,5X,38HOPEATIONS PROJECT ALTERNATIVE NUMBER ,12,5X,
           110A4)
           C      STORE THE INDEX OF THE FIRST PROGRAM CHANGE OF THIS OPERATIONS
           C      PROJECT ALTERNATIVE
0461      PGSTRT(N)=NPLST+1
           C      READ THE TOTAL NUMBER OF PROGRAM CHANGES
0462      READ(5,2)NPROG
           C      READ AND PRINT THE PROGRAM CHANGES AND FIND THE YEAR OF THE
           C      EARLIEST PROGRAM CHANGE. THIS YEAR IS ASSUMED TO BE
           C      THE FIRST YEAR OF THE INDICATOR CHANGES OF THE OPERATIONS
           C      PROJECT ALTERNATIVE
0463      IYEAR=H-1
0464      DO 58 J=1,NPROG
0465      CALL PGINPT
0466      58 IF(PGYEAR(NPLST).LT.IYEAR)IYEAR=PGYEAR(NPLST)
           C      STORE THE INDEX OF THE LAST PROGRAM CHANGE OF THIS OPERATIONS
           C      PROJECT ALTERNATIVE
0467      PGEND(N)=NPLST
           C      INCREMENT YEAR
0468      IYEAR=IYEAR+1
           C      READ AND PRINT THE INDICATOR CHANGES OF THIS OPERATIONS PROJECT
           C      ALTERNATIVE
0469      WRITE(6,200)(VTITLE(JJ),JJ=IYEAR,H)
0470      DO 55 J=1,7
0471      READ(5,18)(PAINDR(N,J,T),T=IYEAR,H)
0472      I=J+5
0473      IF(J.EQ.1)I=3
0474      55 WRITE(6,201)(ITITLE(I,JJ),JJ=1,10),(PAINDR(N,J,T),T=IYEAR,H)
           C      STORE THE YEAR OF THESE INDICATOR CHANGES
0475      39 INDYR(N)=IYEAR-1
           C      INPUT CAPITAL IMPROVEMENT PROJECT ALTERNATIVES
           C      READ TOTAL NUMREP OF CAPITAL IMPROVEMENT PROJECT ALTERNATIVES
0476      38 READ(5,2)NCPIMP
0477      IF(NCPIMP.EQ.0)GO TO 59
           C      FOR EACH CAPITAL IMPROVEMENT PROJECT ALTERNATIVE, DO THE FOLLOWING
           C      DO 60 N=1,NCPIMP
           C      IPGE=IPGE+1
0478      WRITE(6,164)(OTITLE(J),J=1,10),IPGE
0479      164 FORMAT(1H1,28X,10A4,3X,40HCAPITAL IMPROVEMENT PROJECT ALTERNATIVES
           1,4X,4HPAGE,13)
           C      SET TEMPORARY INDEX
           C      NN=NPANCI+N
           C      READ CAPITAL IMPROVEMENT PROJECT ALTERNATIVE TITLE
0480      READ(5,151)(PACPTL(NN,J),J=1,10)
0481      WRITE(6,156)N,(PACPTL(NN,J),J=1,10)
0482      156 FORMAT(1H0,5X,47HCAPITAL IMPROVEMENT PROJECT ALTERNATIVE NUMBER ,
           112,5X,10A4)
           C      READ AND PRINT ADDITIONAL CLASSROOMS AND WHEN AVAILABLE
0483      READ(5,44)IYEAR,CICLSM(N)
0484      IYEAR=IYEAR+1
0485      WRITE(6,157)(CICLSM(N),VTITLE(IYEAR))
```



```
C      C      READ AND PRINT ADDITIONAL REVENUE
0489      READ(5,18)(CIREVU(N,T),T=IYEAR,H)
0490      WRITE(6,123)(YTITLE(JJ),JJ=IYEAR,H)
0491      WRITE(6,167)(CIREVU(N,T),T=IYEAR,H)
0492      167 FORMAT(1H,18H ADDITIONAL REVENUE,15X,5F11.2)

C      C      STORE THE INDEX OF THE FIRST PROGRAM CHANGE OF THIS CAP. IMP.
0493      PGSTPT(NN)=NPLST+1
C      C      READ NUMBER OF PROGRAM CHANGES
0494      READ(5,2)NPROG
C      C      READ AND PRINT THE PROGRAM CHANGES
0495      DO 61 J=1,NPROG
0496      61 CALL PGINPT
C      C      STORE THE INDEX OF THE LAST PROGRAM CHANGE
0497      PGEND(NN)=NPLST
C      C      READ AND PRINT THE INDICATOR CHANGES
0498      WRITE(6,200)(YTITLE(JJ),JJ=IYEAR,H)
0499      200 FORMAT(1H,5X,17H INDICATOR CHANGES/1H,40X,5(7X,A4))
0500      DO 52 J=1,7
0501      READ(5,18)(PAINDR(NN,J,T),T=IYEAR,H)
0502      I=J+5
0503      IF(J.EQ.1)I=3
0504      52 WRITE(6,201)(YTITLE(JJ),JJ=I,10),(PAINDR(NN,J,T),T=IYEAR,H)
0505      201 FORMAT(1H,10A4,5(3X,F8.2))
C      C      STORE THE FIRST YEAR OF THESE CHANGES
0506      60 INDYR(NN)=IYEAR-1
C      C      PROCESS OPERATIONS AND CAPITAL IMPROVEMENT PROJECT ALTERNATIVES
C      C      READ TOTAL NUMBER OF ALTERNATIVE SETS
0507      50 READ(5,2)NASETS
0508      IF(NASETS.EQ.0)GO TO 6
C      C      FOR EACH ALTERNATIVE SET, DO THE FOLLOWING
0509      DO 62 NN=1,NASETS
0510      DO 67 T=1,H
0511      SET FYP=FBC CLASSROOMS
C      C      CLSRMST(2,T)=CLSRMST(1,T)
C      C      SET FYP=FRC EXPENDITURES ON CURRICULUM MATERIALS, SUPPLIES, AND
C      C      LIBRARY BOOKS
0512      ECMSLR(2,T)=ECMSLB(1,T)
C      C      SET FYP=FBC PROGRAM COSTS
0513      DO 68 P=1,24
0514      DO 68 J=1,4
0515      68 PRGCST(2,P,J,T)=PRGCST(1,P,J,T)
C      C      SET FYP=FBC DEBT SERVICE
0516      DRTSPR(2,T)=DRTSER(1,T)
C      C      SET FYP=FBC FIXED CHARGES SALARY RATIO
0517      RRSSC(2,T)=RRSSC(1,T)
C      C      SET FYP=FBC REVENUE
0518      PVENUE(2,T)=RVENUE(1,T)
C      C      SET FYP=FBC MANPOWER
0519      DO 69 J=1,17
0520      69 MNPWR(2,J,T)=MNPWR(1,J,T)
C      C      SET FYP=FBC INDICATOR LEVELS
0521      DO 67 I=1,12
0522      67 INDCTR(2,I,T)=INDCTR(1,I,T)
C      C      INPUT OPERATIONS PROJECT ALTERNATIVES TO BE INCLUDED IN THIS SET
C      C      READ TOTAL NUMBER OF OPERATIONS PROJECT ALTERNATIVES IN THE
C      C      ALTERNATIVE SET
0523      READ(5,2)NINNCI
0524      IF(NINNCI.EQ.0)GO TO 63
```

```
0525      CALL DHTLE(VN+3)
0526      C      READ THE INDICES OF THE OPERATIONS PROJECT ALTERNATIVES
0527      READ(5,64)(TPSTCD(N),N=1,NINNCI)
0528      64 FORMAT(40I2)
0529      WRITE(6,165)
0530      165 FORMAT(140,8HINCLUDES)
0531      C      FOR EACH OPERATIONS PROJECT ALTERNATIVE, DO THE FOLLOWING
0532      DO 72 N=1,NINNCI
0533      J=TPSTCD(N)
0534      C      PRINT OPERATIONS PROJECT ALTERNATIVE NUMBER AND TITLE
0535      WRITE(6,163)J,(PACPTL(J,JJ),JJ=1,10)
0536      163 FORMAT(10I2,10A10)
0537      C      ZERO NUMBER OF PROGRAM CHANGES IN THE ALTERNATIVE SET
0538      NPRGST=0
0539      C      FIND AND STORE THE INDICES OF THE PROGRAM CHANGES OF THIS
0540      C      OPERATIONS PROJECT ALTERNATIVE
0541      JJ=PGSTRT(J)-1
0542      73 JJ=JJ+1
0543      IF(JJ.GT.PGEND(J))GC TO 72
0544      NPRGST=NPRGST+1
0545      PRGSET(NPRGST)=JJ
0546      GO TO 74
0547      74 CONTINUE
0548      C      COMBINE THE PROGRAM CHANGES AND INDICATOR CHANGES WITH THE ABOVE
0549      C      FYP PROGRAM COSTS, MANPOWER, AND INDICATORS
0550      72 CALL PACOMB(2,NPRGST,J)
0551      C      INPUT CAPITAL IMPROVEMENT PROJECT ALTERNATIVES TO BE INCLUDED IN
0552      C      THE SET
0553      C      READ TOTAL NUMBER OF CAPITAL IMPROVEMENT PROJECT ALTERNATIVES IN
0554      C      THE SET
0555      63 READ(5,2)NCISET
0556      IF(NCISET.EQ.0)GO TO 71
0557      CALL DHTLE(VN+3)
0558      C      READ THE INDICES OF CAPITAL IMPROVEMENT PROJECT ALTERNATIVES
0559      READ(5,64)(TPSTCD(N),N=1,NCISET)
0560      WRITE(6,165)
0561      C      FOR EACH CAPITAL IMPROVEMENT PROJECT ALTERNATIVE, DO THE FOLLOWING
0562      DO 65 N=1,NCISET
0563      J=NPANCI+TPSTCD(N)
0564      C      PRINT CAPITAL IMPROVEMENT PROJECT ALTERNATIVE NUMBER AND TITLE
0565      WRITE(6,166)TPSTCD(N),(PACPTL(J,JJ),JJ=1,10)
0566      166 FORMAT(10I2,10A10)
0567      C      RETRIEVE THE YEAR WHEN ROOMS AVAILABLE
0568      IYEAR=INDYR(J)
0569      IYEAR=IYEAR+1
0570      ACLSRM=CICLSM(J-NPANCI)
0571      DO 66 I=IYEAR,H
0572      C      ADD THE ROOMS TO TOTAL CLASSROOMS
0573      CLSRMS(2,I)=CLSRMS(2,I)+ACLSRM
0574      C      ADD THE REVENUE TO TOTAL REVENUE
0575      65 RVENUE(2,I)=RVENUE(2,I)+CIREVUI(J-NPANCI,I)
0576      C      ZERO NUMBER OF PROGRAM CHANGES IN THE ALTERNATIVE SET
0577      NPRGST=0
0578      C      FIND AND STORE THE INDICES OF THE PROGRAM CHANGES OF THIS CAP.
0579      C      IMP.
0580      JJ=PGSTRT(J)-1
0581      75 JJ=JJ+1
0582      IF(JJ.GT.PGEND(J))GC TO 65
0583      NPRGST=NPRGST+1
0584      PRGSET(NPRGST)=JJ
0585      GO TO 75
```

```
C      COMBINE THE PROGRAM AND INDICATOR CHANGES WITH THE ABOVE FYP
C      PROGRAM COSTS, MANPOWER, AND INDICATORS
0562   65 CALL PACFMB(2,NPGST,J)
C      TOTAL PROGRAM COSTS, CALCULATE HIRES, AND PRINT PROGRAM COST
C      REPORT AND MANPOWER REPORT
0563   71 CALL SMPRNT(2,NN+3)
C      CALCULATE AND PRINT INDICATORS AND GAPS
0564   CALL CALIND(2,NN+3,ICLGAP)
C      CALCULATE Y1-Y5 SURPLUSES, DEFICITS, AND TAX RATES
0565   52 CALL REVALT(2,NN+3)
0566   6  CALL EXIT
0567   END
```

```
0001                      SUBROUTINE DHTLE(MM)
C                      THIS SUBROUTINE PRINTS A PAGE HEADING CONSISTING OF THE SCHOOL
C                      DISTRICT NAME AND CASE TITLE
C                      MM=1 REPRESENTS RC
C                      MM=2 REPRESENTS ARC
C                      MM=3 REPRESENTS FRC
C                      MM=3+N REPRESENTS ALTERNATIVE CASE NUMBER N
C                      COMMON/CDHTLE/HTITLE(4,6),DTITLE(10),IPGE
0002                      COMMON/CDHTLE/HTITLE(4,6),DTITLE(10),IPGE
0003                      IPGE=IPGE+1
0004                      IF(MM.GT.3)GO TO 1
0005                      WRITE(6,2)(DTITLE(J),J=1,10),(HTITLE(MM,J),J=1,6),IPGE
0006                      2   FORMAT(1H1,28X,10A4,3X,6A4,12X,4HPAGE,13)
0007                      GO TO 3
0008                      1   MT=MM-3
0009                      WRITE(6,4)(DTITLE(J),J=1,10),(HTITLE(4,J),J=1,6),MT,IPGE
0010                      4   FORMAT(1H1,28X,10A4,3X,6A4,12,10X,4HPAGE,13)
0011                      3   RETURN
0012                      END
```

```
0001                      SUBROUTINE RNDUP(X)
C                      THIS SUBROUTINE ROUNDS UP. IF X IS EXACTLY AN INTEGER VALUE, X
C                      REMAINS THE SAME. OTHERWISE, X IS RAISED TO THE NEXT
C                      INTEGER VALUE.
0002                      I=X
0003                      V=1
0004                      IF(X,50,V)GO TO 1
0005                      X=V+1.
0006                      1 RETURN
0007                      END
```



```
0001      SUBROUTINE ABCMEN(T,TR,TEMP,MNTEMP,TEMP2)
C      THIS SUBROUTINE IS USED TO CALCULATE THE TEACHER MANPOWER
C      CORRESPONDING TO COLUMNS OF THE ABC SALARY TRIANGULAR MATRIX.
C      T IS THE YEAR IN QUESTION
C      TR IS THE RETENTION RATE FROM YEAR T-1 TO T
C      TEMP IS THE NUMBER OF TEACHERS WHO MUST BE HIRED (+) OR FIRED(-)
C      FOR USE OR UN-USE IN YEAR T
C      AT THE ENTRANCE TO THE SUBROUTINE MNTEMP(1) TO MNTEMP(T-1) HAS
C      YEAR T-1 TEACHERS WHERE MNTEMP(1) IS THE NUMBER WHO REMAIN
C      FROM THE CY, MNTEMP(2) IS THE NUMBER WHO REMAIN FROM THOSE
C      ENTERING AT Y1,ETC.
0002      INTEGER T,TT,TM
0003      REAL MNTEMP
0004      DIMENSION MNTEMP(6)
C      SET TEMPORARY TIME SUBSCRIPT
0005      TM=T-1
0006      TEMP2=MNTEMP(1)
C      APPLY RETENTION RATE TO YEAR T-1 TEACHERS AND STORE IN TEMP2 THE
C      NUMBER OF CY TEACHERS WHO DROP-OUT FROM T-1 TO T
0007      DO 90 TT=1,TM
0008      90 MNTEMP(TT)=TR*MNTEMP(TT)
0009      TEMP2=TEMP2-MNTEMP(TT)
C      IF TEACHERS MUST BE HIRED, SKIP DOWN TO STATEMENT 91
0010      IF(TEMP.GE.0.0)GO TO 91
C      TEACHERS MUST BE FIRED, I.E., THE NUMBER OF TEACHING POSITIONS
C      WAS REDUCED IN YEAR T MORE THAN TURNOVER. THE FOLLOWING LOGIC
C      ASSUMES THAT THE LOWEST SENIORITY PEOPLE ARE FIRED FIRST, AND
C      SO ON.
0011      TEMP=-TEMP
0012      MNTEMP(T)=0.0
0013      DO 92 TT=1,TM
0014      TEMP=TEMP-MNTEMP(TM-TT+1)
0015      IF(TEMP.GT.0.0)GO TO 92
0016      MNTEMP(TM-TT+1)=-TEMP
0017      GO TO 95
0018      92 MNTEMP(TM-TT+1)=0.0
0019      WRITE(6,94)
0020      94 FORMAT(1H0,39HERROR***FIRED MORE TEACHERS THAN EMPLOY)
0021      STOP
C      IF TEACHERS HAVE TO BE HIRED, STORE THE NUMBER HIRED FOR USE IN
C      YEAR IN MNTEMP(T).
0022      91 MNTEMP(T)=TEMP
0023      95 RETURN
0024      END
```



```
0002 INTEGER P,H,I,PRGMFR,PGCODE,PGYEAR
0003 REAL INFLAT,MNPOWR,INDCTR
0004 DIMENSION PICST(6)
0005 REAL MTITLE,ITITLE
0006 COMMON/CTITLE/PTITLE(24,7),STITLE(4),MTITLE(17,7),YTITLE(6),
      1 ITITLE(12,10)
0007 COMMON/CH/H
0008 COMMON/CPINPT/PRGMFR(23,4),INFLAT(4, 6),NPLST,PGCODE(99),
      1 PGYEAR(99),PGMNPR(99,3, 6),PGNSAL(99, 6),PGECMS(99, 6),
      2 PGCOLY(99, 6),PGDBSE(99, 6),PGRRSS(99, 6),PGSALS(99, 6),
      3 PUPWGT(3,6)
0009 COMMON/CCLIND/INDCTR(4,12, 6),PUPILS(12, 6),CLSRMS(2, 6),IVOTIN,
      1 MNPOWR(2,17, 6),ECMSLB(2, 6),PRGST(2,24,4, 6),DBTSER(2, 6),
      2 TOTCST(2, 6)
      C INCREMENT TOTAL NUMBER OF PROGRAM CHANGES STORED. THIS IS THE
      C INDEX OF THE FORTHCOMING PROGRAM CHANGE.
0010 NPLST=NPLST+1
      C IF IT WILL EXCEED STORAGE, PRINT ERROR MESSAGE AND STOP
0011 IF(NPLST.LE.99)GO TO 1
0012 WRITE(6,2)
0013 2 FORMAT(1H3,39H***ERROR***EXCEEDED PROGRAM LIST LENGTH)
0014 STOP
      C READ AND STORE PROGRAM CODE AND FIRST YEAR OF THE PROGRAM CHANGE
0015 1 READ(5,3)P,IYEAR
0016 3 FORMAT(2I2)
0017 PGCODE(NPLST)=P
0018 PGYEAR(NPLST)=IYEAR
      C INCREMENT YEAR. REMEMBER--INTERNALLY 2=Y1,3=Y2,ETC.
0019 IYEAR=IYEAR+1
      C NMEN HAS NUMBER OF MANPOWER TYPES OF THE PROGRAM
0020 NMEN=PRGMFR(P,1)
0021 IF(NMEN.EQ.0)GO TO 4
      C IF THERE ARE MANPOWER TYPES,
      C READ MANPOWER CHANGES AND CALCULATE SALARY COST OF THE PROGRAM
      C CHANGE
0022 DO 12 T=IYEAR,H
0023 12 PGSALS(NPLST,T)=0.0
0024 DO 10 J=1,NMEN
0025 READ(5,6)(PGMNPR(NPLST,J,T),T=IYEAR,H),SALPM
0026 DO 10 T=IYEAR,H
0027 10 PGSALS(NPLST,T)=PGSALS(NPLST,T)+INFLAT(1,T-IYEAR+1)*SALPM
      1 *PGMNPR(NPLST,J,T)
0028 GO TO 5
0029 4 IF(P.NE.14).AND.(P.NE.15))GO TO 5
      C IF THE PROGRAM HAS NO MANPOWER TYPES BUT IS A MEDICAL OR DENTAL
      C PROGRAM,
      C READ SALARY COST INPUT MODE
0030 READ(5,7)MNSAL
0031 IF(MNSAL.EQ.2).OR.(MNSAL.EQ.4))GO TO 14
      C READ FIRST YEAR TOTAL SALARY COST OR SALARY COST/POPUL AND INFLATE
0032 READ(5,6)PGSALS(NPLST,IYEAR)
0033 IF(IYEAR.EQ.H)GO TO 13
0034 JJ=IYEAR+1
0035 DO 35 T=JJ,H
0036 35 PGSALS(NPLST,T)=INFLAT(1,T-IYEAR+1)*PGSALS(NPLST,IYEAR)
0037 GO TO 13
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C      READ FIRST YEAR TOTAL SALARY COST OR SALARY COST/PUPIL OVER TIME
0038 14 READ(5,6)(PGSALS(NPLST,T),T=IYEAR,H)
0039 13 IF(MNSAL.LT.3)GO TO 5
C      SALARY COST/PUPIL WAS READ IN. MULTIPLY BY TOTAL WEIGHTED (STAFF)
C      ENROLLMENT TO GET TOTAL SALARY COST
0040 30 30 T=IYEAR,H
0041 30 PGSALS(NPLST,T)=PGSALS(NPLST,T)*PUPILS(9,T)
C      IF PROGRAM IS FIXED CHARGES, READ CHANGE IN FIXED CHARGES SALARY
C      RATIO OVER TIME
0042 5 IF(P.EQ.22)READ(5,6)(PGRSSS(NPLST,T),T=IYEAR,H)
C      READ NON-SALARY COST INPUT MODE
0043 READ(5,7)MNSAL
0044 7 FORMAT(11)
C      IF((MNSAL.EQ.2).OR.(MNSAL.EQ.4))GO TO 8
0045 8 READ FIRST YEAR TOTAL NON-SALARY COST OR NON-SALARY COST/PUPIL
C      AND INFLATE AND READ CAPITAL OUTLAY OVER TIME
0046 READ(5,6)PGNSAL(NPLST,IYEAR),(PGCOLY(NPLST,T),T=IYEAR,H)
0047 6 FORMAT(10F8.0)
0048 IF(IYEAR.EQ.H)GO TO 11
C      JJ=IYEAR+1
0049 JJ=IYEAR+1
0050 DO 9 T=JJ,H
0051 9 PGNSAL(NPLST,T)=INFLAT(2,T-IYEAR+1)*PGNSAL(NPLST,IYEAR)
0052 GO TO 11
C      READ TOTAL NON-SALARY COST OR NON-SALARY COST/PUPIL OVER TIME AND
C      READ CAPITAL OUTLAY OVER TIME
0053 8 READ(5,6)(PGNSAL(NPLST,T),T=IYEAR,H),(PGCOLY(NPLST,T),T=IYEAR,H)
0054 11 IF(MNSAL.LT.3)GO TO 31
C      NON-SALARY COST/PUPIL WAS READ IN. MULTIPLY BY APPROPRIATE PUPIL
C      BASE
0055 30 15 T=IYEAR,H
0056 IF(P.GT.5)GO TO 16
0057 30 TO 19
0058 16 IF(P.GT.6)GO TO 24
0059 TEMP=PUPWT(2,1)*PUPILS(1,T)
0060 GO TO 15
0061 24 IF(P.GT.9)GO TO 17
0062 TEMP=PUPILS(P-5,T)
0063 30 TO 15
0064 17 IF(P.GT.10)GO TO 18
0065 TEMP=PUPWT(2,5)*PUPILS(5,T)+PUPWT(2,6)*PUPILS(6,T)
0066 GO TO 15
0067 18 IF(P.GT.11)GO TO 19
0068 TEMP=PUPILS(11,T)
0069 30 TO 15
0070 19 TEMP=PUPILS(10,T)
0071 15 PGNSAL(NPLST,T)=PGNSAL(NPLST,T)*TEMP
C      IF THE PROGRAM IS INSTRUCTIONAL SUPPORT SERVICES, READ CHANGE IN
C      EXPENDITURES FOR CURRICULUM MATERIALS, SUPPLIES, AND LIBRARY
C      BOOKS OVER TIME
0072 31 IF(P.EQ.12)READ(5,6)(PGECMS(NPLST,T),T=IYEAR,H)
C      IF THE PROGRAM IS FACILITIES, READ CHANGE IN DEBT SERVICE OVER
C      TIME
0073 IF(P.EQ.21)READ(5,6)(PGDBSE(NPLST,T),T=IYEAR,H)
C      PRINT THE MANPOWER AND COST CHANGES OF THIS PROGRAM CHANGE
0074 WRITE(6,50)(PTITLE(P,J),J=1,7)
0075 50 FORMAT(1H,5X,1A)CHANGE IN PROGRAM--(7A4)
0076 IF(MNEN.EQ.0)GO TO 61
0077 WRITE(6,62)(VTITLE(J),J=IYEAR,H)
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0073      62 FORMAT(140,2X,8HMANPOWER,12X,6(11X,A4))
0079      DO 63 J=1,NMEN
0080      JJ=PRGMPR(P,J+1)
0081      63 WRITE(6,64)(WTITLE(JJ,T),T=1,7),(PGMNPR(NPLST,J,T),T=1YEAR,H)
0082      64 FORMAT(1H,7A4,2X,F7.2,5(3X,F12.2))
0083      61 WRITE(6,51)(YTITLE(J),J=1YEAR,H)
0084      51 FORMAT(1H0,2X,5HCOSTS,15X,6(11X,A4))
0085      IF(P.EQ.22)GO TO 59
0086      WRITE(6,52)(PGSALS(NPLST,T),T=1YEAR,H)
0087      52 FORMAT(1H,6HSALARY,16X,6(3X,F12.2))
0088      59 WRITE(6,53)(PGNSAL(NPLST,T),T=1YEAR,H)
0089      53 FORMAT(1H,10HNON-SALARY,12X,6(3X,F12.2))
0090      IF(P.EQ.12)WRITE(6,54)(PGECMS(NPLST,T),T=1YEAR,H)
0091      54 FORMAT(1H,22HMATLS,SUPPS,L18,BKS,6(3X,F12.2))
0092      WRITE(6,55)(PGCOLY(NPLST,T),T=1YEAR,H)
0093      55 FORMAT(1H,14HCAPITAL OUTLAY,8X,6(3X,F12.2))
0094      IF(P.EQ.21)WRITE(6,56)(PGDBSE(NPLST,T),T=1YEAR,H)
0095      56 FORMAT(1H,12HDEBT SERVICE,10X,6(3X,F12.2))
0096      DO 57 T=1YEAR,H
0097      PTCST(T)=PGNSAL(NPLST,T)+PGCOLY(NPLST,T)
0098      IF(P.NE.22)PTCST(T)=PTCST(T)+PGSALS(NPLST,T)
0099      IF(P.EQ.12)PTCST(T)=PTCST(T)+PGECMS(NPLST,T)
0100      57 IF(P.EQ.21)PTCST(T)=PTCST(T)+PGDBSE(NPLST,T)
0101      WRITE(6,58)(PTCST(T),T=1YEAR,H)
0102      58 FORMAT(1H,11HTOTAL ABOVE,11X,6(3X,F12.2))
0103      IF(P.EQ.22)WRITE(6,60)(PGRRSS(NPLST,T),T=1YEAR,H)
0104      60 FORMAT(1H0,27HCHANGE IN RATIO F.C. SALARY,3X,F7.4,5(8X,F7.4))
0105      RETURN
0106      END
```

```
0001 SUBROUTINE PACOMB(M,NPRGST,NINDCG)
      C THIS SUBROUTINE COMBINES PROGRAM CHANGES AND INDICATOR CHANGES OF
      C OPERATIONS OR CAPITAL IMPROVEMENT PROJECT ALTERNATIVE WITH
      C PROGRAM COSTS, MANPOWER, AND INDICATORS
      INTEGER O,H,I,PRGMPR,PRGSET,PGCODE,PGYEAR,TT
      REAL INFLAT,MNPOWR,INDCTR,MNTEMP
      COMMON/CH/H
0002 COMMON/CPINPT/PRGMPR(23,4),INFLAT(4,6),NPLST,PGCODE(99),
0003 PGYEAR(99),PGMNPR(99,3,6),PGNSAL(99,6),PGECMS(99,6),
0004 PGCOLY(99,6),PGDBSE(99,6),PGRRSS(99,6),PGSALS(99,6),
0005 PUPWGT(3,6)
0006 COMMON/CPACMB/RRSSC(2,6),SALPM(3,6),PRGSET(99),IINSAL,
      C PAINDR(99,7,6),INDYR(99)
0007 COMMON/CCLIND/INDCTR(4,12,6),PUPILS(12,6),CLSRMS(2,6),IVOTIN,
      C MNPOWR(2,17,6),ECMSLB(2,6),PRGCST(2,24,4,6),DRTSER(2,6),
      C TOTCST(2,6)
0008 DIMENSION MNTEMP(6)
      C FOR EACH PROGRAM CHANGE, DO THE FOLLOWING
0009 DO 6 N=1,NPRGST
      C STORE IN J THE INDEX OF THE PROGRAM CHANGE
0010 J=PRGSET(N)
      C RETRIEVE PROGRAM CODE AND FIRST YEAR OF PROGRAM CHANGE
0011 P=PGCODE(J)
0012 IYEAR=PGYEAR(J)
      C INCREMENT YEAR. INTERNALLY, 2=Y1, 3=Y2,ETC.
0013 IYEAR=IYEAR+1
      C NMEN IS NUMBER OF MANPOWER TYPES ASSOCIATED WITH THIS PROGRAM
0014 NMEN=PRGMPR(P,I)
0015 IF(NMEN.EQ.0)GO TO 2
      C IF THERE ARE MANPOWER TYPES, ADD MANPOWER AND SALARY COSTS
0016 DO 3 T=IYEAR,H
      C DO 4 NN=1,NMEN
0017 JJ=PRGMPR(P,NN+1)
      C MNPOWR(M,JJ,T)=MNPOWR(M,JJ,T)+PGMNPR(J,NN,T)
0018 4 PRGCST(M,P,1,T)=PRGCST(M,P,1,T)+PGSALS(J,T)
0019 3 PRGCST(M,P,1,T)=PRGCST(M,P,1,T)+PGSALS(J,T)
0020 GO TO 1
0021 2 IF(P.NE.14).AND.(P.NE.15))GO TO 1
      C IF THERE ARE NO MANPOWER TYPES BUT THE PROGRAM IS MEDICAL OR
      C DENTAL, ADD SALARY COSTS
0022 DO 25 T=IYEAR,H
      C 25 PRGCST(M,P,1,T)=PRGCST(M,P,1,T)+PGSALS(J,T)
      C ADD NON-SALARY AND CAPITAL OUTLAY COSTS
0023 1 DO 5 T=IYEAR,H
      C PRGCST(M,P,2,T)=PRGCST(M,P,2,T)+PGNSAL(J,T)
0024 5 PRGCST(M,P,3,T)=PRGCST(M,P,3,T)+PGCOLY(J,T)
      C IF(P.NE.12)GO TO 12
      C IF THE PROGRAM IS INSTRUCTIONAL SUPPORT SERVICES, ADD EXPENDITURES
      C ON CURR. MTLs., SUPPLIES, LIB. BKS. TO TOTAL EXPENDITURES ON
      C THESE ITEMS AND TO INSTRUCTIONAL SUPPORT NON-SALARY COST
0025 DO 13 T=IYEAR,H
      C ECMSLB(M,T)=ECMSLB(M,T)+PGECMS(J,T)
0026 13 PRGCST(M,12,2,T)=PRGCST(M,12,2,T)+PGECMS(J,T)
0027 12 IF(P.NE.21)GO TO 9
      C IF THE PROGRAM IS FACILITIES, ADD DEBT SERVICE
      C DO 7 T=IYEAR,H
0028 7 DRTSER(M,T)=DRTSER(M,T)+PGDBSE(J,T)
0029 9 IF(P.NE.22)GO TO 6
      C IF THE PROGRAM IS FIXED CHARGES, ADD FIXED CHARGES SALARY RATIO
```



```
0036      DO 10 T=IYEAR,H
0037      10 RRSSC(M,T)=RRSSC(M,T)+PGRSS(J,T)
0039      6 CONTINUE
C      NOW PROCESS THE INDICATOR CHANGES
C      INITIALIZE FLAG ON WHETHER OR NOT PROF. STAFF TURNOVER IS CHANGED
C      IN ANY YEAR
0039      ICGTO=0
C      STORE IN J THE INDEX OF THE SET OF INDICATOR CHANGES
0040      J=NINDCG
C      RETRIEVE AND INCREMENT THEIR FIRST YEAR
0041      IYEAR=INDYR(J)
0042      IYEAR=IYEAR+1
C      ADD THE UNCALCULABLE INDICATOR CHANGES
0043      DO 8 T=IYEAR,H
0044      10 INDCR(M,3,T)=INDCR(M,3,T)+PAINDR(J,1,T)
C      IF PROF. STAFF TURBOVER IS CHANGED, SET FLAG
0045      IF(PAINDR(J,2,T).NE.0.0)ICGTO=1
0046      DO 8 I=7,12
0047      8 INDCR(M,1,T)=INDCR(M,1,T)+PAINDR(J,I-5,T)
C      IF PROF. STAFF TURNOVER HAS NOT BEEN CHANGED OR NO ENTERING SALARY
C      PER TEACHER WAS USED IN ABC, SKIP DOWN TO FIXED CHARGES
C      SALARY CALCULATION
0048      IF((ICGTO.EQ.0).OR.(IINSAL.EQ.0))GO TO 11
C      THIS LOGIC REMOVES ABC TEACHER SALARIES CALCULATIONS
0049      DO 30 J=1,5
C      SALPM(1,J)=0.0 INDICATES THAT THE PROGRAM J+5 HAS NO TEACHERS AND
C      SHOULD BE SKIPPED.
0050      IF(SALPM(1,J).EQ.0.0)GO TO 30
C      SEE COMMENTS IN MAIN DEALING WITH ABC
0051      D=J+5
0052      JJ=J+2
0053      MNTMP(1)=MNPWR(M,JJ,1)
0054      DO 31 T=2,H
0055      TR=1.-(INDCR(M,7,T-1)/100.)
0056      TEMP=MNPWR(M,JJ,T)-TR*MNPWR(M,JJ,T-1)
0057      CALL ARCMEN(T,TR,TEMP,MNTMP,TEMP2)
0058      PRGCST(M,P,1,T)=INFLAT(1,T)*SALPM(1,J)*MNTMP(1)+
1          INFLAT(1,T)*(SALPM(1,J)-SALPM(3,J))*TEMP2
0059      DO 31 TT=2,T
0060      31 PRGCST(M,P,1,T)=PRGCST(M,P,1,T)+INFLAT(1,T-1+1)*INFLAT(4,TT)*
1          SALPM(2,J)*MNTMP(TT)
C      30 CONTINUE
C      CALCULATE FIXED CHARGES SALARY
0061      DO 22 T=2,H
0062      11 DO 22 T=2,H
0063      11 TOTSAL=0.
0064      DO 23 P=1,23
0065      23 IF(PRGMPR(P,1).GT.0)TOTSAL=TOTSAL+PRGCST(M,P,1,T)
0066      22 PRGCST(M,22,1,T)=RRSSC(M,T)*TOTSAL
0067      RETURN
0068      END
```

```
0001      SUBROUTINE SMRPT(M,MW)
0002      C THIS SUBROUTINE TOTALS AND PRINTS PROGRAM COSTS AND CALCULATES
0003      C HIRES AND PRINTS MANPOWER POSITIONS AND HIRES
0004      INTEGER P,H,T
0005      REAL INDCTR,MNPOWR
0006      DIMENSION HIRE(17, 6),TMPTOT( 6)
0007      REAL MTITLE,ITITLE
0008      COMMON/CSMPRN/TRATE(17)
0009      COMMON/CTITLE/PTITLE(24,7),STITLE(4),MTITLE(17,7),VTITLE(6),
0010      1 ITITLE(12,10)
0011      COMMON/CH/H
0012      COMMON/CCCLIND/INDCTR(4,12, 6),PUPILS(12, 6),CLSRMS(2, 6),IVOTIN,
0013      1 MNPOWR(2,17, 6),ECMSLB(2, 6),PRGCST(2,24,4, 6),DBTSER(2, 6),
0014      2 TOTCST(2, 6)
0015      C TOTAL PROGRAM COSTS BY PROGRAM OVER COST CATEGORIES AND BY COST
0016      C CATEGORY OVER PROGRAMS
0017      DO 23 T=1,H
0018      DO 25 P=1,23
0019      PRGCST(M,P,4,T)=0.
0020      DO 25 J=1,3
0021      PRGCST(M,P,4,T)=PRGCST(M,P,4,T)+PRGCST(M,P,J,T)
0022      DO 24 J=1,4
0023      PRGCST(M,24,J,T)=0.
0024      DO 24 P=1,23
0025      PRGCST(M,24,J,T)=PRGCST(M,24,J,T)+PRGCST(M,P,J,T)
0026      23 TOTCST(M,T)=PRGCST(M,24,4,T)+DBTSER(M,T)
0027      C PRINT PROGRAM COST REPORT
0028      CALL DHTLE(MM)
0029      WRITE(6,10)(VTITLE(J),J=1,H)
0030      10 FORMAT(1H0,54X,13HPROGRAM COSTS/1H0,32X,6(11X,A4))
0031      DO 26 P=1,24
0032      WRITE(6,27)(PTITLE(P,J),J=1,7),STITLE(1),(PRGCST(M,P,1,T),T=1,H)
0033      27 FORMAT(1H0,8A4,6(3X,F12.2))
0034      DO 26 J=2,4
0035      WRITE(6,28)STITLE(J),(PRGCST(M,P,J,T),T=1,H)
0036      28 FORMAT(1H ,28X,A4,5(3X,F12.2))
0037      WRITE(6,29)(DBTSER(M,T),T=1,H)
0038      29 FORMAT(1H0,12HDBTSER SERVICE,20X,6(3X,F12.2))
0039      WRITE(6,20)(TOTCST(M,T),T=1,H)
0040      20 FORMAT(1H0,10HTOTAL COST,22X,6(3X,F12.2))
0041      C CALCULATE HIRES
0042      DO 1 T=2,H
0043      DO 1 J=1,17
0044      IF((J.GT.2).AND.(J.LT.9))TRATE(J)=INDCTR(M,7,T-1)
0045      1 HIRE(J,T)=MNPOWR(M,J,T)-(1.-(TRATE(J)/100.))*MNPOWR(M,J,T-1)
0046      C PRINT MANPOWER REPORT
0047      CALL DHTLE(MM)
0048      WRITE(6,11)(VTITLE(J),J=1,6)
0049      11 FORMAT(1H0,32X,32HMANPOWER (FULL-TIME EQUIVALENTS)/1H0,30X,
0050      1 6(7X,A4))
0051      DO 4 J=1,17
0052      WRITE(6,30)(MTITLE(J,JJ),JJ=1,7),(MNPOWR(M,J,T),T=1,H)
0053      30 FORMAT(1H0,7A4,2H F,6(3X,F9.2))
0054      IF((J.GT.2).AND.(J.LT.9))GO TO 9
0055      WRITE(6,31)TRATE(J),(HIRE(J,T),T=2,H)
0056      31 FORMAT(1H ,2X,13HTURNOVER RATE,F5.1,8X,2H H,5(3X,F8.2))
0057      GO TO 4
0058      9 WRITE(6,57)(HIRE(J,T),T=2,H)
```



```
0048      50 FORMAT(1H,2X,15H$FE INDICATOR 7,11X,2H 14,5(3X,F8.2))
0049      4 CONTINUE
0050      C      CALCULATE AND PRINT TOTAL POSITIONS
0051      DO 5 T=1,H
0052      TMPTOT(T)=0.0
0053      DO 5 J=1,17
0054      TMPTOT(T)=TMPTOT(T)+MNPWR(M,J,T)
0055      5 TMPTOT(T)=TMPTOT(T),T=1,H
      WRITE(6,6)(TMPTOT(T),T=1,H)
      6 FORMAT(1H),15HTOTAL POSITIONS,15X,6(3X,F8.2))
      C      CALCULATE AND PRINT TOTAL HIRES. IF SOME PERSONNEL HAVE TO BE
      C      FIRED, THEY ARE NOT USED TO REDUCE TOTAL HIRES. IF THEY WERE,
      C      THAT WOULD ASSUME TRANSFERS AMONG MANPOWER TYPES ARE POSSIBLE
      DO 7 T=2,H
      TMPTOT(T)=0.0
      DO 7 J=1,17
      7 IF(HIRE(J,T).GT.0.0)TMPTOT(T)=TMPTOT(T)+HIRE(J,T)
      WRITE(6,8)(TMPTOT(T),T=2,H)
      8 FORMAT(1H),11HTOTAL HIRES,19X,5(3X,F8.2))
      RETURN
      END
```



```
0001 SUBROUTINE CALIND(M,MM,ICLGAP)
C THIS SUBROUTINE CALCULATES AND PRINTS INDICATORS AND INDICATOR
C GAPS
0002 INTEGER H,T
0003 REAL INDCR,MNPOWR
0004 REAL MTITLE,ITITLE
0005 COMMON/CTITLE/PTITLE(24,7),STITLE(4),MTITLE(17,7),YTITLE(6),
1 ITITLE(12,10)
0006 COMMON/CH/H
0007 COMMON/CCLIND/INDCTR(4,12,6),PUPILS(12,6),CLSRMS(2,6),IVOTIN,
1 MNPOWR(2,17,6),ECMSLB(2,6),PRGST(2,24,4,6),DBTSR(2,6),
2 TOTCST(2,6)
0008 DO 2 T=1,H
0009 C CALCULATE EXCESS ENROLLMENT
1 INDCR(M,1,T)=PUPILS(8,T)-25.*CLSRMS(M,T)
0010 C CALCULATE TEACHERS/1000 WEIGHTED (STAFF) PUPILS
1 TEMP=0.0
0011 DO 3 J=3,3
0012 3 TEMP=TEMP+MNPOWR(M,J,T)
0013 INDCR(M,2,T)=TEMP/(PUPILS(9,T)/1000.)
0014 C CALCULATE INSTRUCTIONAL SPEC., NURSES, PSYCHOLOGISTS/1000 WEIGHTED
1 (STAFF) PUPILS
C TEMP=0.0
0015 DO 3 J=9,11
0016 3 TEMP=TEMP+MNPOWR(M,J,T)
0017 INDCR(M,4,T)=TEMP/(PUPILS(9,T)/1000.)
0018 C CALCULATE EXPEND. CURR. MATLS., SUPPLIES, LIB. BKS./WEIGHTED
1 (FINANCE) PUPIL
1 INDCR(M,5,T)=ECMSLB(M,T)/PUPILS(10,T)
0019 C CALCULATE NET EXPEND./WEIGHTED(FINANCE) PUPIL. NET EXPEND. IS
C TOTAL COST LESS VOC.-TECH. NON-SALARY COST, IF VOC.-TECH.
C IS OUTSIDE
C TEMP=TOTCST(M,T)
0020 IF(IVOTIN.GT.0)GO TO 2
0021 TEMP=TEMP-PRGST(M,9,2,T)
0022 2 INDCR(M,6,T)=TEMP/PUPILS(10,T)
0023 C PRINT INDICATOR REPORT
0024 CALL SHLE(MM)
0025 WRITE(6,10)(YTITLE(J),J=1,6)
10 FORMAT(1H0,4X,10HINDICATORS/1H0,40X,6(7X,A4))
0026 DO 6 I=1,12
0027 6 WRITE(6,4)(ITITLE(I),J=1,10),(INDCTR(M,I,T),T=1,H)
0028 4 FORMAT(1H0,10A4,6(3X,F8.2))
0029 WRITE(6,16)(CLSRMS(M,T),T=1,H)
0030 16 FORMAT(//1H0,36X,15HSUBSIDIARY DATA/1H0,10HCLASSROOMS,30X,
1 6(3X,F8.2))
0031 WRITE(6,17)(ECMSLB(M,T),T=1,H)
0032 17 FORMAT(1H0,22HMATLS.,SUPPS.,LIB.BKS.,18X,6F11.2)
0033 IF(ICLGAP.EQ.0)GO TO 7
0034 C IF DESIRED INDICATOR LEVELS WERE INPUTED, CALCULATE AND PRINT
C INDICATOR GAPS REPORT. GAP=DESIRED-CALCULATED
DO 1 I=1,12
0035 DO 1 T=1,H
0036 1 INDCR(4,T,T)=INDCTR(3,I,T)-INDCTR(M,I,T)
0037 CALL SHLE(MM)
0038 WRITE(6,11)(YTITLE(J),J=1,6)
0039 11 FORMAT(1H0,40X,14HINDICATOR GAPS/1H0,42X,6(7X,A4))
0040 DO 3 I=1,12
```

```
0041      WRITE(6,12)((ITITLE(I,J),J=1,10),(INDCTR(3,I,T),T=1,H)
0042      12 FORMAT(1H,10A4,2H D,6(3X,F8.2))
0043      WRITE(6,5)((INDCTR(M,I,T),T=1,H)
0044      5 FORMAT(1H,40X,2H A,6(3X,F8.2))
0045      3 WRITE(6,13)((INDCTR(4,I,T),T=1,H)
0046      13 FORMAT(1H,40X,2H G,6(3X,F8.2))
0047      7 RETURN
0048      END
```

```
0001 SURROUTINE REVALT(M,MM)
C THIS SUBROUTINE CALCULATES SURPLUSES, DEFICITS, AND REAL ESTATE
C TAX RATES AND PRINTS REVENUE FEASIBILITY REPORT
      INTEGER H,T
0002 REAL INDCTR,MNPOWR
0003 REAL MTITLE,ITITLE
0004 COMMON/CTITLE/PTITLE(24,7),STITLE(4),MTITLE(17,7),YTITLE(6),
0005 1 ITITLE(12,10)
0006 COMMON/CH/H
0007 COMMON/CCLIND/INDCTR(4,12,6),PUPILS(12,6),CLSRMS(2,6),IVOTIN,
1 MNPOWR(2,17,6),ECMSLB(2,6),PRGST(2,24,4,6),DBTSER(2,6),
2 TOTCST(2,6)
0009 COMMON/CREVAL/RVENUE(2,6),RVPMLL(6),RESTTX(6),COLPCT,SPLSCY
0009 DIMENSION DFICIT(2,6),TXCGI(6),TVPMLL(6)
C THIS LOGIC ASSUMES SURPLUSES ARE CARRIED FORWARD FROM ONE YEAR TO
C THE NEXT AND TAX RATES DO NOT FALL
C SURPLUS CARRIED FORWARD FROM CY
      DFICIT(2,1)=SPLSCY
      DO 1 T=2,H
0010
0011 C CALCULATE YEAR T SURPLUS OR DEFICIT BEFORE CHANGING TAX RATES
      DFICIT(1,T)=RVENUE(M,T)-TOTCST(M,T)+DFICIT(2,T-1)
0012
0013 DFICIT(2,T)=0.0
0014 1 IF(DFICIT(1,T).GT.0.0)DFICIT(2,T)=DFICIT(1,T)
0015 CALL DHTLE(MM)
0016 WRITE(6,12)(YTITLE(J),J=2,H)
0017 12 FORMAT(1H0,47X,19HREVENUE FEASIBILITY/1H0,39X,5(11X,A4))
0018 WRITE(6,53)(RVENUE(M,T),T=2,H)
0019 53 FORMAT(1H0,35HTOTAL REVENUE AT CY REAL ESTATE TAX,4X,5(3X,F12.2))
0020 J=H-1
0021 WRITE(6,2)(DFICIT(2,T),T=1,J)
0022 2 FORMAT(1H0,23HSURPLUS FROM PRIOR YEAR,16X,5(3X,F12.2))
0023 WRITE(6,61)(TOTCST(M,T),T=2,H)
0024 61 FORMAT(1H0,10HTOTAL COST,29X,5(3X,F12.2))
0025 WRITE(6,54)(DFICIT(1,T),T=2,H)
0026 54 FORMAT(1H0,39HSURPLUS(+),DEFICIT(-) AT CY TAX RATE ,5(3X,F12.2))
0027 DO 52 T=2,H
C CALCULATE COLLECTED REVENUE/MILL
      TVPMLL(T)=(COLPCT/100.)*RVPMLL(T)
0028
0029 DFICIT(2,T)=RVENUE(M,T)-TOTCST(M,T)+DFICIT(2,T-1)
C SET YEAR T TAX RATE = YEAR T-1 TAX RATE
      RESTTX(T)=RESTTX(T-1)
0030
C IF WE HAVE A SURPLUS BEFORE CHANGING RATES, SKIP DOWN AND
C CALCULATE SURPLUS AFTER CHANGING TAX RATES
      IF(DFICIT(2,T).GE.0.0)GO TO 50
C WE HAVE A DEFICIT. TEMP IS THE TAX RATE WHICH WOULD WIPE OUT THE
      DEFICIT
      TEMP=RESTTX(1)-(DFICIT(1,T)/TVPMLL(T))
0032
C IF THE TEMP RATE IS GREATER THAN YEAR T-1 TAX RATE, THEN USE
C TEMP RATE AS YEAR T TAX RATE
      IF(TEMP.GT.RESTTX(T))RESTTX(T)=TEMP
C CALCULATE INCREASED REVENUE IN YEAR T
      TEMP=TVPMLL(T)*(RESTTX(T)-RESTTX(1))
0034 50 TEMP=TVPMLL(T)*(RESTTX(T)-RESTTX(1))
C CALCULATE SURPLUS AFTER CHANGING TAX RATE AND ZERO IF LESS THAN
      TOLERANCE OF 100. THIS SURPLUS IS CARRIED FORWARD.
      DFICIT(2,T)=DFICIT(2,T)+TEMP
0035
0036 IF(ABS(DFICIT(2,T)).LT.100.)DFICIT(2,T)=0.0
C CALCULATE TOTAL REVENUE
      52 DFICIT(1,T)=RVENUE(M,T)+TEMP
```

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```
0039      WRITE(6,57)(VTITLE(J),J=1,H)
0040      57 FORMAT(///1H0,35X,A4,5(11X,A4))
0041      WRITE(6,58)(RESTIX(I),I=1,H)
0042      58 FORMAT(1H0,28HREAL ESTATE TAX RATE (MILLS),4X,F7.2,5(3X,F12.2))
0043      C      CALCULATE AND PRINT YEAR TO YEAR TAX RATE CHANGES
0044      DO 59 T=2,H
0045      59 TXCG(T)=RESTIX(T)-RESTIX(T-1)
0046      WRITE(6,60)(TXCG(T),T=2,H)
0047      60 FORMAT(1H0,19HYEAR TO YEAR CHANGE,20X,5(3X,F12.2))
0048      WRITE(6,3)(VTITLE(T),T=2,H)
0049      3 FORMAT(///1H0,39X,5(11X,A4))
0050      WRITE(6,4)(DFICIT(1,T),T=2,H)
0051      4 FORMAT(1H0,37HTOTAL REVENUE AT Y1-Y5 R.O.E. TAX RATES,2X,
0052      1 5(3X,F12.2))
0053      J=H-1
0054      WRITE(6,2)(DFICIT(2,T),T=1,J)
0055      WRITE(6,61)(TOTCST(M,T),T=2,H)
0056      WRITE(6,5)(DFICIT(2,T),T=2,H)
0057      5 FORMAT(1H0,31HSURPLUS AT Y1-Y5 R.O.E. TAX RATES,8X,5(3X,F12.2))
0058      WRITE(6,64)(VTITLE(T),T=2,H)
0059      64 FORMAT(///1H0,49X,15HSUBSIDIARY DATA/1H0,39X,5(11X,A4))
0060      WRITE(6,62)(RVPMLL(T),T=2,H)
0061      62 FORMAT(1H0,12HREVENUE/MILL,27X,5(3X,F12.2))
0062      WRITE(6,63)COLPCT
0063      63 FORMAT(1H0,18HCOLLECT PERCENTAGE,5X,F12.2)
0064      WRITE(6,65)(TVPMML(T),T=2,H)
0065      65 FORMAT(1H0,22HCOLLECTED REVENUE/MILL,17X,5(3X,F12.2))
0066      RETURN
0067      END
```



## Variable Dictionary of the Computer Program

The following abbreviations are used in the variable dictionary:

BC represents Base Case  
ABC represents Adjusted Base Case  
FBC represents Final Base Case  
FYP represents Five Year Plan

For the purposes of the variable dictionary, the computer processing is essentially of two parts: (1) the processing up through the FBC, and (2) the processing up through one or a number of FYP's.

<u>Variable</u>	<u>Definition</u>
ACLSRM	Classrooms added by a FBC Capital Improvement Project.
ADJMNT (I)	Total dollar adjustments, either plus or minus, to the gross assessed real estate tax or to the state share of the district foundation in calculating the basic instructional subsidy. Subscript I ranges over years.
AMTLVL (I)	Non-Salary cost to be held constant in BC. The index of the program corresponding to AMTLVL(I) is in PRGLVL(I). Subscript I ranges over the number of these pairs: (PRGLVL(I), AMTLVL(I)).
ANTRPS	Average number of morning trips per bus.
ASSPCT(I)	Assessment ratio in the real estate tax forecast and various ratios in the basic instructional subsidy calculation. Subscript I ranges over years.
ATTPT	Attendance percent. ADM equals this percentage of total enrollment taking



into account whether Kindergarten is single or double session.

BUSES(I)	Number of buses. Subscript I ranges over years.
CAPCTY(I, II)	Total busing capacity. Subscript I=1 represents before adding buses and I=2 after adding buses. Subscript II ranges over years.
CICLSM(I)	Classrooms added by Capital Improvement Project Alternative Number I in the FYP part of the process.
CIREVU(I, II)	Revenue added by Capital Improvement Project Alternative Number I in the FYP. Subscript II ranges over years.
CLSRMS(I, II)	Total classrooms. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
CLYPBS(I)	Capital Outlay per bus. Subscript I ranges over years.
CØLPCT	Collection percent, used to reduce (entered) revenue per mill because of inability to collect all taxes levied.
DBTSER(I, II)	Total debt service. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
DFICIT(I, II)	Surplus(+), Deficit(-). Subscript I=1 represents before changing tax rates. I=2 represents after changing tax rates. Subscript II ranges over years.
DTITLEF(I)	School district name and other leading information, e.g., run number, date. Subscript I ranges over locations storing the characters.
ECMSLB(I, II)	Total expenditures for curriculum materials, supplies, and library books. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
ETITLE(I, II)	Enrollment Titles. Subscript I ranges over the type of enrollment, e.g.,

	Kindergarten, ADM. Subscript II ranges over locations necessary to store the characters of each title.
H	Total number of years in the FYP plus the current year, e.g., 6.
HIRE(I,II)	Total number of personnel that must be hired (+) or fired (-). Subscript I ranges over manpower types. Subscript II ranges over years.
HTITLE(I,II)	Case Titles: BC, ABC, FBC, and Alternative Case Number. Subscript I ranges over the cases. Subscript II ranges over locations necessary to store the characters.
I	Temporary index.
ICGTØ	Temporary flag indicating whether or not a set of indicator changes (either due to an operations or capital improvement project alternative in FYP) caused the professional staff turnover rate to change.
ICLGAP	Option flag for indicator gaps. ICLGAP = 0 represents <u>not</u> inputting desired indicator levels and <u>not</u> calculating gaps. ICLGAP = 1 represents inputting desired indicator levels and calculating gaps.
IECED	Option flag on Early Childhood. IECED = 0 represents single session. IECED = 1 represents double session.
IINSAL	Option flag on ABC teacher salaries. IINSAL = 0 represents no entering and no dropout salary/teacher. IINSAL = 1 represents entering but no dropout salary/teacher. IINSAL = 2 represents entering and dropout salary/teacher.
INDCTR(I,II,III)	Indicator levels. Subscript I=1 represents FBC. I=2 represents FYP. I=3 represents desired levels. I=4 represents gaps (desired - actual). Subscript II ranges over the indicators. Subscript III ranges over years.

INDYR(I)	The index of the beginning year of the indicator changes corresponding to operations and capital improvement project alternatives from which alternative sets are formed. Subscript I ranges over these operations and capital improvement project alternatives.
INFLAT(I,II)	Inflation multiplicative factors. Subscript I=1 represents salary. I=2 represents non-salary. I=3 represents Vocational-Technical non-salary, if outside school district. I=4 represents entering salary. Subscript II ranges over years.
IPGE	Page number.
IRNDUP	Round-up option flag. IRNDUP = 0 represents no round-up. IRNDUP = 1 represents round-up.
ITITLE(I,II)	Indicator titles. Subscript I ranges over the indicators. Subscript II ranges over the locations necessary for storing the characters.
IVØTIN	Vocational-Technical option flag. IVØTIN = 0 represents Vocational-Technical program outside the school district. IVØTIN = 1 represents Vocational-Technical program inside the school district.
IYEAR	Temporary variable having a year index value.
J	Temporary index.
JU	Temporary index.
JJ	Temporary index.
M	Temporary index. M=1 represents FBC. M=2 represents FYP.
MM	Temporary index representing which case heading (HTITLE) is to be printed.
MNPØWR(I,II,III)	Full-time equivalent manpower. Subscript I=1 represents FBC. I=2

represents FYP. Subscript II ranges over the manpower types. Subscript III ranges over years.

**MNSAL**

Option flag on the input of the non-salary cost change due to a program change. MNSAL = 1 represents inputting first year total non-salary cost change and having it inflated over time. MNSAL = 2 represents inputting total non-salary cost change over time. MNSAL = 3 represents inputting first year per pupil non-salary cost change and having it inflated and multiplied by pupils. MNSAL = 4 represents inputting per pupil non-salary cost change over time and having them multiplied by pupils. Which pupils are concerned, depends upon the program that is being changed. MNSAL also applies to the Medical and Dental salary cost.

**MNTEMP(I)**

Temporary manpower variable used in dealing with the entering-dropout salary/teacher part of the process. MNTEMP is the teacher manpower that corresponds to a column of the "Salary Triangle" as seen on the ABC output. Subscript I=1 represents teachers who were in the school district in the CY. I=2 represents teachers who enter Y1.... I=6 represents teachers who entered Y5.

**MT**

Temporary index of the number of the alternative set which results are being printed.

**MTITLE(I,II)**

Manpower titles. Subscript I ranges over manpower types. Subscript II ranges over the locations necessary for storing the characters.

**N**

Temporary index.

**NASETS**

Number of alternative sets.

**NCISET**

Number of capital improvement project alternatives in the alternative set being considered.

**NCPIMP**

Total number of capital improvement projects in the FBC and total number of

capital improvement project alternatives from which alternative sets will be formed.

NINDCG	The number of the set of indicator changes of an operations or capital improvement project alternative.
NINNCI	Number of operations project alternatives in the alternative set.
NMEN	Temporary variable used to store the number of manpower types corresponding to a program, e.g., a value from the first column of PRGMPR.
NN	Temporary index.
NPANCI	Total number of operations project alternatives from which alternative sets are formed.
NPLST	Total number of program changes of the operations and capital improvement project alternatives.
NPLVL	Number of programs with constant non-salary costs in BC.
NPRGST	Total number of program changes in an alternative set.
NPRØG	Total number of program changes of an operations or capital improvement project alternative.
NSCPP(I)	CY non-salary cost/pupil or /bus in ABC. Subscript I ranges over programs.
ØTHREV(I)	Total revenue other than real estate tax revenue and basic instructional subsidy.
P	Temporary index.
PACPTL(I, II)	The title of Operations or Capital improvement Project Alternative I. Subscript II ranges over locations necessary to store the characters.
PAINDR(I, II, III)	"Uncalculable" indicator changes due to operations and capital improvement project alternatives. Subscript I



ranges over the operations and capital improvement project alternatives. Subscript II ranges over the indicators: II = 1 represents indicator #3, II = 2 represents indicator #7, ... and II = 7 represents indicator #12. Subscript III ranges over years.

PGCODE(I)

The index of the program changed by Program Change I.

PGCØLY(I,II)

Change in capital outlay due to Program Change I. Subscript II ranges over years.

PGDBSE(I,II)

Change in debt service due to Program Change I. Subscript II ranges over years.

PGECMS(I,II)

Change in expenditures on curriculum materials, supplies, and library books due to program change I. Subscript II ranges over years.

PGEND(I)

The index of the last program change corresponding to Operations or Capital Improvement Project Alternative I.

PGMNPR(I,II,III)

Change in manpower due to program change I. Subscript II ranges over manpower types. II = 1 corresponds to the 2nd column of PRGMPR. II = 2 corresponds to the 3rd, etc. Subscript III ranges over the years.

PGNSAL(I,II)

Change in non-salary cost due to program change I. Subscript II ranges over years.

PGRRSS(I,II)

Change in Fixed Charges salary ratio (RRSSC) due to Program Change I. Subscript II ranges over years.

PGSALS(I,II)

Change in salary cost due to Program Change I. Subscript II ranges over years.

PGSTRT(I)

The index of the first program change corresponding to Operations or Capital Improvement Project Alternative I.



PGYEAR(I)	Index of the first year of Program Change I.
PRGCST(I,II,III,IV)	Program costs. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over programs. Subscript III=1 represents salary. III=2 represents non-salary. III=3 represents capital outlay. III=4 represents total of the three previous categories. Subscript IV ranges over years.
PRGMPR(I,II)	Indices of manpower types corresponding to programs. Subscript I ranges over programs. Subscript II=1 represents the number of manpower types corresponding to Program I. II=2 represents the index of the 1st manpower type. I=3 represents the index of the 2nd manpower type, etc.
PRGLVL(I)	The indices of the program which non-salary cost is to be held constant in BC. PRGLVL(I) corresponds to AMTLVL(I). Subscript I ranges over the number of these pairs: (PRGLVL(I), AMTLVL(I)).
PRGSET(I)	The indices of the program changes due to operations and/or capital improvement project alternatives in an alternative set.
PTCST(I)	Temporary variable representing the total cost of a program change. Subscript I ranges over years.
PTITLE(I,II)	Program titles. Subscript I ranges over programs. Subscript II ranges over locations necessary to store the characters.
PTR(I)	CY pupil-teacher ratio. Subscript I ranges over instructional programs. I=1 represents the 1st instructional program, Early Childhood, etc.
PUPILS(I,II)	Enrollment forecast. Subscript I ranges over enrollment types: Kindergarten,..., Special Education 7-12, Total, ADM, etc. Subscript II ranges over years.

PUPWGT(I,II)	Pupil weights. Subscript I=1 represents staff weights. I=2 represents finance weights. I=3 represents subsidy weights. Subscript II ranges over enrollment types.
RESTTX(I)	Real estate tax rate in mils. Subscript I ranges over years.
RIDERS(I)	Total bus riders in Year I.
RIDPCT	Percent of total enrollment (less 1/2 Kindergarten, if single session) riding buses.
RLPRPV(I,II)	Subscript I=1 represents district real property market value in totals per pupil. I=2 represents state real property market value/pupil. Subscript II ranges over years.
RRSSC(I,II)	Ratio Fixed Charges salary to total salary less Fixed Charges, Medical, and Dental salaries. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
RVENUE(I,II)	Total revenue at CY real estate tax rate. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
RVPMLL(I)	Revenue/mill (before collection). Subscript I ranges over years.
SALPM(I,II)	CY salary/teacher. Subscript I ranges over the instructional programs. I=1 corresponds to the first instructional program, Early Childhood, etc. Subscript II = 1 corresponds to mean salary/teacher for teachers in the school district during the CY. II=2 represents entering teachers. II=3 represents drop-out salary/teacher for the teachers who were in the school district during the CY.
SBDYFP(I)	State subsidy per pupil. Subscript I ranges over years.

SLCPP(I)	CY salary cost/pupil. Subscript I=1 represents the Medical program. I=2 represents the Dental program.
SPLSCY	Surplus to be carried over from the CY for use in Y1.
STITLE(I)	Cost category sub-titles on the Program Costs Report. Subscript I ranges over the four cost categories: Salary, Non-Salary, Capital Outlay, and Total.
STSPB	Seats/bus.
T	Temporary index used for time in years. T=1 represents CY. T=2 represents Y1, etc.
TEMP	Temporary variable used in various ways.
TEMP2	Temporary variable used to represent number of teachers who were in the school district during the CY who drop-out from one year to the next.
TM	Temporary time variable.
TMPTOT(I)	Temporary variable used to total manpower positions and hires. Subscript I ranges over years.
TOTCST(I,II)	Total cost over all programs, cost categories, and debt service. Subscript I=1 represents FBC. I=2 represents FYP. Subscript II ranges over years.
TOTSAL	Temporary variable used to calculate Fixed Charges salary.
TPSTCD(I)	Indices of operations or capital improvement project alternatives to be included in an alternative set. Subscript I ranges over the operations or capital improvement project alternatives.
TR	Temporary variable used to store retention rate (1 - Professional Staff Turnover Rate).
TRATE(I)	Turnover rate in percent for Manpower Type I for all manpower types except

teacher types whose turnover rate is  
Professional Staff Turnover.

TT

Temporary time index.

TVPMLL(I)

Collected revenue/mill. Subscript I  
ranges over years.

TXCG(I)

Year to year change in the real estate  
tax rate in mills. Subscript I ranges  
over years.

VØTWGT

A weight indicating the percent of time  
Vocational-Technical pupils spend in the  
Secondary Education Program.

X

Temporary variable.

Y

Temporary variable.

YTITLE(I)

Year titles. Subscript I ranges over  
years.

### Annotated Listing of the Permanent Data Cards

The data cards shown on the following pages are to be used for every computer run of EPPBS for School Districts, Version II, Model 1. A school district's Final Base Case data cards or Final Base Case and Five Year Plan data cards are placed behind the permanent data cards.

KINDERGARTEN

GRADES 1-6

GRADES 7-12

VOCATIONAL-TECHNICAL

SPECIAL ED. 1-6

SPECIAL ED. 7-12

TOTAL ENROLLMENT

AVERAGE DAILY MEMBERSHIP

WGTD. ENROLLMENT-STAFF

WGTD. ENROLLMENT-FINANCE

WT. ENRLMT.-INST. SRSDY.

WT. AVRG. DAILY MERSHP.

### Enrollment Titles

BASE CASE

ADJUSTED BASE CASE

FINAL BASE CASE

ALTERNATIVE CASE NUMBER

### Case Titles

POLICY AND EXECUTIVE

1 1

COMPREHENSIVE PLANNING

1 1

INFORMATION AND LIAISON

1 1

COMMUNITY SERVICES

1 1

COORDINATE SUPPORT SERVICES

2 112

EARLY CHILDHOOD INSTRUCTION

1 3

ELEMENTARY INSTRUCTION

1 4

SECONDARY INSTRUCTION

1 5

VOC.-TECH. INSTRUCTION

1 6

SPECIAL INSTRUCTION

1 7

CONTINUING INSTRUCTION

1 8

INSTRUCTIONAL SUPPORT SER.

3 2 912

NURSING

110

MEDICAL

0

DENTAL

0

PSYCHOLOGICAL

111

HEALTH SUPPORT SERVICES

112

GENERAL SERVICES

3 11712

PUPIL TRANSPORTATION

115

FOOD SERVICES

116

FACILITIES

21314

FIXED CHARGES

0

BUSINESS SUPPORT SERVICES

2 112

### Program Titles and Program-Manpower Matrix

TOTAL ABOVE

### Program Cost Category Titles

S NS CO T

CY Y1 Y2 Y3 Y4 Y5

### Year Titles

PROFESSIONAL ADMINISTRATION

PRINCIPALS

TEACHERS - EARLY CHILDHOOD

TEACHERS - ELEMENTARY

TEACHERS - SECONDARY

TEACHERS - VOC.-TECH.

TEACHERS - SPECIAL

TEACHERS - CONTINUING

INSTRUCTIONAL SPECIALISTS

NURSES

PSYCHOLOGISTS

CLERICAL PERSONNEL

OPERATIONS PERSONNEL

MAINTENANCE PERSONNEL

BUS DRIVERS

FOOD SERVICE PERSONNEL

ADMINISTRATIVE STAFF

EXCESS ENROLLMENT

TEACHERS/1000 WGT. PUPILS

### Manpower Titles

### Indicator Titles



SECONDARY COURSE OFFERINGS  
 INST.SPEC.,NURS.,PSYCH./1000 WGT. PUPILS  
 MATLS.,SUPPS.,LIB.BKS./WGT. PUPIL  
 NET EXPEND./WGT. PUPIL  
 PROF. STAFF TURNOVER )PCT.\*  
 PROF. STAFF MA OR MORE )PCT.\*  
 PCT. GRAD. CLASS ATTEND PHSE  
 DROPOUTS PCT. ENROLLMENT  
 LANGUAGE ACHIEVEMENT  
 MATHEMATICS ACHIEVEMENT

Indicator Titles

.5	1.0	1.1	1.1	1.0	1.1	.5	1.0	1.25	1.25	1.0	1.25	.5	1.0	1.36	1.36	1.0	1.36	.5	Voc.-Tech. to Sec. weight
Pupil weights - Staff						Pupil weights - Finance						Pupil weights - Subsidy							

## **APPENDIX A**

### **IBM GENERAL PURPOSE CARD PUNCHING FORM**



## Variable Dictionary of the Computer Program

The following abbreviations are used in the variable dictionary:

BC represents Base Case  
ABC represents Adjusted Base Case  
FBC represents Final Base Case  
FYP represents Five Year Plan

For the purposes of the variable dictionary, the computer processing is essentially of two parts: (1) the processing up through the FBC, and (2) the processing up through one or a number of FYP's.

<u>Variable</u>	<u>Definition</u>
ACLSRM	Classrooms added by a FBC Capital Improvement Project.
ADJMNT (I)	Total dollar adjustments, either plus or minus, to the gross assessed real estate tax or to the state share of the district foundation in calculating the basic instructional subsidy. Subscript I ranges over years.
AMTLVL (I)	Non-Salary cost to be held constant in BC. The index of the program corresponding to AMTLVL(I) is in PRGLVL(I). Subscript I ranges over the number of these pairs: (PRGLVL(I), AMTLVL(I)).
ANTRPS	Average number of morning trips per bus.
ASSPCT(I)	Assessment ratio in the real estate tax forecast and various ratios in the basic instructional subsidy calculation. Subscript I ranges over years.
ATTPT	Attendance percent. ADM equals this percentage of total enrollment taking