ODFORM 1

SURVEY SHEET FOR INDOOR PREPARATION (1)

(Accompanied Survey)

Indoor Preparation for Delivery:	Deliver	; .			Region: Post Office: Delivery dist Researcher:	Region: Post Office: Delivery district: Researcher:	
Step of Operation		Unit	No. of mail items	Time	Action Required	Work	Work Flow
Receiving of mail			1	l		Ordinary	Registered
Ordinary Registered	66	piece piece			(1) and (2) Measure the time needed for receiving of mail and count the number of mail items received.	0-	0
Preliminary Sorting			i	i		· · ·	
Ordinary	ઈ	piece	1		Measure the time needed for preliminary sorting of ordinary mails items.	O	
Door-to-door arrange- ment			t	1	Measure the time needed for door-to-door arrangement and count the number of mail items by type of service.	0-	
Ordinary	3	piece				•	
Sorting and door-to-door arrangement	<u>გ</u>		ì	1			(
Registered	છ	piece	ı		Measure the time needed for sorting and for door- to-door arrangement for registered items.		O-
Bundling	-		i	1			
Ordinary	9	bundle			Measure the time needed for bundling and count the number of bundles.	O-	
Placing in satchel			í	ı	(7) and (8) Measure the time needed for placins bundles	~	0
Ordinary Registored	<u>ce</u>	bundle	1 1		in the satchel.		

ODFORM 2

Survey Sheet for Indoor Preparation (Continued) (2) (Accompanied Survey)

Transportation Satchel (9) Examination of vehicle before starting (10) Attachment of satchel to vehicle (11) Handling of unde-			Work Flow
(9) uon of erfore (10) ent of (11)	1		
on of core (10) nt of (11)		Measure the time needed for conveyance of satchel to the vehicle	0-
nt of (11)		Measure the time needed for examination of vehicle before starting	-0-
ě		Measure the time needed for attaching the satchel to the vehicle	
ivered mail and checking and put-	·	 Measure the handling time for undelivered registered items at delivery section and count number of items thereof 	O
delivery records or delivery cortificates		2. Measure the time needed for checking and for putting in order	
Registered (12) piece		of delivery records or activory certificates for registered items	
Handling of non-piece deliverable (13)		Measure the time needed for handling of non-deliverable mail	-0
ə		Measure the time needed for cleaning of vehicle	-0-

ODFORM 3

OUTDOOR WORK SURVEY SHEET (1)

A. TABLE FOR NUMBER OF ITEMS DELIVERED AT EACH DELIVERY POINT AND TIME RECORDED FOR EACH DELIVERY

Type of Ser	vice		Delivery Poin	1	2	3	4	5	6	7	8	9	10	97	98	9ን	100	Total
Domestic	Ordinary	Surface	Ist class	1				_	-	1	i–		-		-	-		
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	Registered	Surface	Non-Exp. Ist class	T	i			i –	г									
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FBI in O or	X*(2)			T	Г	Γ			1	1	1				<u> </u>			

RECORDING TABLE FOR RIDING TIME (SURVEY) B.

Operation	Measurement & Time	Time Required	Remarks
Starting from office Riding to delivery district (15)	Starting from office: Arrival in the delivery district (y):	Sec.	Riding time from post office to the first delinery point
Delivery (16)	For this column, total columns (x) of table A above are transferred here.	Séc.	Time required for definery of mail items by type of service and number of items
Riding during delinery (17)	Time required is calculated through following formula: (2) · (y) · (x) = (17)	Sec.	Total riding time from the first deli- very point to the last delivery points
Riding teck to the office Annual at office (18)	Departure from delivery district (2): Return to the office room:	See.	Riding time from the last delivery point to the time for getting off from the vehicle at the office (after telurolog)

Notes: * (1) Fill in No. of mail items by type of service delivered at each delivery point and time required for delivery.

* (2) A symbol *O* is entered when mail items delivered to a household are categorized into only one type of service and a symbol *X* is entered when those are categorized into two or more types of service.

ODFORM 4

OUTDOOR SURVEY SHEET (2)
(In Entering This Form, Refer to The Attached "Note for OD Form 4")

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NOTE FOR ODFORM 4:

- 1. For columns in which (dash) is entered, it is not necessary to complete. This applies to other FORMS too.
- 2. For columns (A) under "Number of Items", "Number of Delivery Points" and "Time Required for Delivery", figures entered under total columns of Table A of "Outdoor Work Survey Sheet (1)" are transferred.

 The data transferred to Columns (A) are then below to the Columns of the columns of t

The data transferred to Columns (A) are then broken down to Columns (B) and (C) depending on whether an item is ordinary or registered.

- 3. Number of items to be entered in Columns D and G For columns on number of delivery points and time required for delivery, figures entered in Column "TOTAL" of Table A of "Outdoor Work Survey Sheet (1)" are transferred. However, in transferring following procedures should be followed:
 - (1) In cases where mail items delivered per delivery point are categorized to only one type of service, to which a symbol "o" is placed on the bottom column of OD-FORM 3, Number of Mail Items, Time Required for Delivery, Number of Delivery Points are totaled and then transferred to column D of this FORM. On the other hand, where mail items delivered per delivery point are categorized to two or more than two types of service, to which symbol "X" is put on the bottom column of ODFORM 3, figures of those columns are totaled respectively and transferred to Column G of this FORM.
 - (2) However, as to number of delivery point at which two or more than two types of service of mail items are delivered, if mail items are all ordinary, then it is counted as number of ordinary delivery point and if items are all registered then it is considered as number of registered items delivery point.

 Further, in cases where ordinary mail items and registered items are delivered at the same time at a delivery points, then this delivery point is counted both as ordinary mail delivery point and as a registered mail delivery point.

 Consequently number of delivery points with two or more than two types of service of mail items are reckoned with as: (G) ≤ (H) + (I)
- Among incoming foreign airmail items, some items coming from specific countries are handled in a similar manner as registered items.
 These items can be included as registered mail items.

ODFORM 5

REPRESENTATIVE WORKING TIME COMPUTATION SHEET (1)

Type of	Time Reg	/,	g of Operat nd Serial N Thereof		Receiving (ordinary)	Receiving (registered)	Prolimingly northig (ordinary)	Doorsto-door arrangement	(ordinary) Soring & door-to-door attangement	(AKK) (AKK)	(ordinary)	- 1		Loading of ratchel to which	Examining of vehicle before	Attachment of satchel to vehicle		Handbing of undesivered main delivery record (registered)		Cleaning of vehicle	You) time required for indoor preparation
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Note. For colour "time regrees", time necessal in the "most short for index preparation (1) & (1)" (000 ORM 1) we transferred to consequency colour colours of step of equation. After transferring, there times are destributed among the types of stroke on the basis of critical for distribution.

ODFORM 6

REPRESENTATIVE WORKING TIME COMPUTATION SHEET (2)

Distribution table of delivery time for items devlivered together with other type of service at a delivery point.

Classification	Number of delivery points	Unit delivery time by type of service (2)	(1) x (2)	Delivery time for mail items delivered together with other types of service at a delivery point
Ordinary				ധ്ര
Registered				(V)
Total				(₩)

Notes:

- 1. Number of delivery points (X) for columns (E) of "Ordinary" and (F) of "Registered" in OD-FORM 4 are transferred respectively to column (1).
- 2. Unit delivery times entered in column (2) for columns (B) of "Ordinary" and (F) "Registered" in the ODFORM 4 are transferred respectively to column (2).
- 3. "Time required for delivery" (Y) for column (6) in ODFORM 4 is transferred to box (W) in table above.
- 4. Total time required for delivery (W) is divided into (U) Delivery time for ordinary and (V) Delivery time for registered using the ratio (1) x (2) for ordinary and (1) x (2) for registered respectively.

ODFORM 7

REPRESENTATIVE WORKING TIME COMPUTATION SHEET (3)

	Total		esp of Open	edios	(To Del. Aces)(15) - R. (During Del.)(17) - 24 (Ridinghack from Del. R. Aces)(16) 1	For Single Type of South per	TesTyp	eded More Than of Service project	Total of Oscione Working Time (B)	Total of fedgor and Outdoor Winking Time (A)+(B)=(C)	Number of faces Delivered (D)	Time Regained for DeSteny per Stem
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3. Outline of Survey for Mail Bag Weights and for Capacities and Weights of Mail Items by the Type of Service

1. Object of the survey

This survey is carried out in order to collect the data necessary for apportioning expenses of post offices and transportation charges to each type of service.

2. Outline of the survey

Mail items contained in arriving mail bags or mail bags dispatched, as the case may be are the object of the survey at post offices where the survey is conducted. In the survey, weights of mail bags and numbers of items/capacities, and weights of items contained in the mail bag concerned are measured, or checked, and recorded.

The intention is that average capacities and weights per item by the type of service may be calculated by data thus obtained.

As it will be difficult to conduct the survey in cases where the number of items for a certain type of service is extremely small, the survey may be conducted on items accepted at the post offices counter or collected from mail boxes.

3. Period of the survey

Period is for three days. A rough schedule will be as follows:

1st day - Arrangement and preparation of the survey in the morning and carrying out the survey in the afternoon

2nd day - Continuation of the survey

3rd day - Putting in order of survey results

4. Researchers

Officials of headquarters

5. Forms to be used

WCFORM 1. Survey forms for mail bag weights.

WCFORM 2. Survey forms for capacities and weights of items by the type of service.

WCFORM 3. Forms for calculation of average capacities and weights per item by type of service. (Totalling sheet)

6. Necessary tools for the survey and units of measurement

(1) Weighing scales for mail bags and mail items (Units: Mail bag - 100 grams, Mail items - 1 gram)

(2) Measures

(Measuring unit: CM (correct to one decimal place).)

7. Method of the survey

(1) Allotment of number of mail bags to be sampled from the total mail bags by category of mail contained

Number of mail bags to be picked out for each category is planned by classifying incoming mail bags roughly into 1) ordinary letter mail only, 2) ordinary letter mail and parcel post mixed, and 3) parcel post only, etc., depending on actual conditions.

On arrangement of the above, average ratio of composition by category of mail in respect of mail bags addressed to own office is used as criteria.

(2) Allotment by arriving schedule of number of mail bags to be sampled for each category of mail bag

Number of mail are further apportioned to each arriving dispatch according to the schedule. On apportioning number of mail bags to be sampled, all arriving dispatches are surveyed as far as possible, so that the sampling is not biased.

(3) Survey on mail items accepted at the counter or collected from mail boxes

If there are certain categories of mail on which the survey cannot be carried out, or items for which data is not sufficiently gathered, it will be necessary to collect data from accepted or collected mail items. In this case, it is important to consult beforehand with the post offices concerned as to arrangement for the survey.

(4) Sampled mail bags as planned by arriving mail schedule

There mail bags are weighed and the weights concerned are recorded in the form. Then these amil bags are opened together and classified into same groups. The mail items are then classified according to the type of service.

In the next step, the number of items, capacities, weights by type of service, are examined and recorded in WCFORM 2.

This procedure is the same in cases where the survey is conducted on items accepted and collected.

- (5) The following points should be noted in measuring capacities of mail items.
 - a. Facing and stacking mail items by type of service on the culling table or the floor, the length, width and height of each stack is measured in mm.
 - b. The same type of mail items stacked are placed in a cardboard receptacle, and the capacity and weight are measured using measure and scale.
 - c. In measuring height of stacked mail items, the researcher places the plam of his hand lightly on the stack without exerting pressure, and the height is then taken.
 - d. In cases where a few items large in size, either in width or in length or both, are found while facing and stacking mail items, these items are removed and measured separately.
 - Thus only items similar in shape are grouped and measured together.
 - e. After carrying out the survey, capacity of mail items should be calculated by multiplying length of each side (length, width and thickness; unit: cm³).

8. Method of putting together the survey results in order

After carrying out the survey, the completed WCFORMS 1 and 2 are summed up, and the results of the survey are carried over on totalling form, after that the total number of items by type of service is calculated.

WC FORM 1

SURVEY SHEET FOR MAIL BAG WEIGHTS

nsportation Rou	ote:	_	Post Offic	œ:		_
		Category of Ma	ul Bags			•
Non-regist mail ba		Registered m	ail bags	Parcel (only	y) bags	Remarks
No. of bags	Weight	No. of bags	Weight	No. of bags	Weight	_
	Kg.		Kg		Kg	
						Total
						Average

Note: The unit of weight for mail bags shall be hundred grams.

WC FORM 2

SURVEY SHEET FOR CAPACITY AND WEIGHT OF MAIL ITEMS BY TYPE OF SERVICE

ite:			~	Post O	Мке:					
Type of Service	s	urvey Item	1	2	3	4	5	6	7	8
	Nu	mber of items								
	Capa-	Length (mm)	HLW	HLW	HLW	HLW	HLW	HF#	HLW	HLY
	city	cm ³								
	<u> </u>	Weight (2)					<u> </u>		L	
	Ì		1							
		Weight (g)								

WC FORM 3 CALCULATION SHEET FOR CAPACITY/WEIGHT BY TYPE OF SERVICE

Transportation Route:	
Type of Mail Bags:	Post Office:

Classification Type of Service	Total No. of items counted (1)	Total capacity (2)	Total weight (3)	Capacity per item (2)/(1)	Weight per item (3)/(1)
	pieces	cm ³	g	cm³	g
ļ					

4. Outline of Survey for Number of Stamps Affixed on Mail Items

1. Object of the survey

This survey is carried out in order to collect basic data to allot expenses such as those required for selling stamps at post office counters and those for manufacturing stamps.

2. Method of the survey

Number of stamps affixed on mail items, by type of service excluding those items bearing "meter stamps" (produced by franking machines), is surveyed on the items accepted or to be delivered during a fixed period is recorded in the form until the number reaches a predetermined figure.

3. Number of items to be surveyed

By the end of the survey, approximately 700 to 1,000 items will be surveyed on each type of service. If the survey is not biased with regard to the type of service, then the number of offices and the period in which the survey is to be carried out is optional.

SA FORM

SURVEY ON MAIL VOLUME BY NUMBER OF STAMPS AFFIXED & BY TYPES OF SERVICE

Survey Date:															
							۶	nme of	Mail by	Number	Volume of Mail by Number of Stumps Affixed	» Arthw	Ā	F	뷝
	j-s	Types of Service	rice		Code	~ ig	7 Š	20 W	7 A A	S 6 pes. pes.	7 20 7	∞ δ΄	οź	Mail (pieces)	Stamps (pieces)
								-	-	-		1			
				1st class	101					-					
				2nd class	102				-	+	-			-	_ -
	Š	Ordinary	Surface	Books	103			-		-		_			
		•		parcels	104					-	-	_			
				Others	105				-	\dashv	-	_			
		l	T/V	Atr Mall	106		Ì	1	-	+		_	-	1	
Domourie Mail		bl. Del.	Surface		107					-	_	1	-		
(Posted Only)	(Non-reg'd)	(p, Ko)	Marit		108			-	-	-	1	_	1		
		Speed Airmail	lto.		109				1	1	-	1	-	-	
				int class	110					\dashv	-				_
		Surface	Non-Express/	Parcols	111					-	-	_	-	-	
			Spir Demogra	Others	112			-		\dashv	-				
	Registered		Express/Spl. Delivery	alivery	113				-	1	-	\downarrow	-	-	
		Airmail	Non-Express/Spl. Dolivery	pl. Dolivery	114				-	_	-	-			-
			Express/Spl. Delivery	olivery	11.5				_			_			

Name of Postmaster

SA FORM

SURVEY ON MAIL VOLUME BY NUMBER OF STAMPS AFFIXED & BY TYPES OF SERVICE

Survey Date:		:									O	Office:				
						Ş	lume of	Mail b	Num's	or of S	Volume of Mail by Number of Stamps Affixed	Mixed			8	-
	Types of Service	Service		000 800	5.	79 <u>Š</u>	. 20 cs	4 ov	หรือ	2 S	- 50 50	∞ ö	တ ရို့	ž ~ <u>(8</u>	No. of Mail (pieces)	No, of Stamps (pieces)
			Lotters	201								-				
			Postcards	202				-								
		2	Printed Matters	203											-	
		2011	2nd Class Publication	204				-		-		-			-	
	7		Small Packets	205					_			_				
			Parcel Posts	907												
			Letters	207				-								
		1,10	Ponteardn	208			_									-
Outgoing Foreign Mail			Printed Matters	505						\vdash	_					
			Air Parcolm	210												
		Cindosa	Express/Spl. Delivery	211								_				
	Transfer and C		Others	212												
	no foreigns	,	Express/Spl. Dolivery	213								-				
		į	Others	214								-	-			
	Express/Spl. Dobvery	. Dobvery	Surface	215												
	(Non-Registered)	intered)	Airmuil	216												

[II] Surveys to be conducted Every Year

- Cost Surreys -

In order to carry out a cost accounting every year, these cost surveys are indispensable.

Among surveys, such statistical data as expenditure, revenue, mail volume etc., may be relatively easily gathered from the Central Office or the regional offices. However, such data as working hours for staff by cost department, mail volume handled by cost department, etc., are not always known. Consequently, it will be necessary to include these surveys in periodical surveys to be carried out regularly at sampled offices chosen in advance as the cost survey post offices.

1. Expenditures and Revenues

Expenditures refer to charges incurred, whether paid or unpaid for operation, maintenance and other charges which are presumed to benefit the current calendar year. In the Bureau of Posts, the following are the items of expenditures:

- Personal services which include pay proper, allowances for subsistence, overtime pay, premium for life, quarters, laundry whether commuted or not, or any allowances given in exchange for services rendered by officials, employees and laborers of the Bureau, etc.
- 2. Maintenance and other charges includes hauting expenses, supplies and materials, and other services like repairs, communication services, rents, interest and others.
- 3. Equipment or capital outlay includes land, land improvement and structures, equipment, loans outlay and investment outlay.

In the course of our study of Cost Accounting in the Bureau of Posts, there was difficulties in ascertaining expenditures of regional and national levels owing to current reporting system.

In the apportionment of costs the following data should be made available:

- Number of personnel engaged in indoor and outdoor services and the number of working hours.
- 2. Output of mail sorters in the sorting of mails to arrive at a standard working hours.
- 3. Number of personnel entitled to uniform allowance in each type of service where they belong.
- 4. Number of employees engaged in mail operation and administrative services.
- 5. Number of working hours rendered as overtime in the operation of mail service.
- Number of manpower in the post office level and regional level with their corresponding positions and monthly salaries.

In the determination of cost of mail items, not only personal services but also maintenance and other charges and supplies and materials are pre-rated.

Maintenance and other charges, and supplies and materials are composed of the following, (and the pertinent data for equitable apportionment of cost):

- 1. Traveling expenses whether the employee belongs to the post offices or regional level.
- Gasoline altowance
 Bicycle allowance actual no. of LC's engaged in actual delivery of mail.
- 3. Mail contractor amount should be segregated into air fare, railway, PM truck, bus, and ships and others.
- 4. P.O. rental area in square meters divided into post offices with rentals and post offices free of charge.
- 5. And other charges classified in the same way as mentioned above.

In order to obtain the details of the expenses as mentioned above, the reports coming from post offices as well as the Regional office should be broken down into the exact requirement for use in cost accounting.

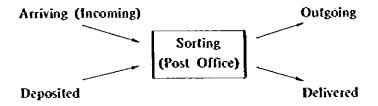
2. Mail Volume and Working Hours

In order to obtain the necessary data for the mail volume and working hours, our cost accounting team conducted a trial survey at approximately 300 post offices chosen in accordance with the statistical theory after considerable thought had been given to the subject by all members of the cost accounting study team. This trial survey, in the form of an inquiry, was conducted to make possible a cost accounting under the statistical data system current in 1978.

As such surveys will be indispensable in executing cost accounting in the future, the forms with detailed instructions used for this survey, including an official circular, are also included in this section.

As to the number of items received and dispatched to be used for cost accounting by cost department in addition to those deposited and delivered, it will be possible to obtain these data by providing separate columns for number of items received in CA FORMs IA, IB and IC (See partially modified CA FORMs).

As the flow of mail items incoming and outgoing to and from a post office may be described as shown below, the following equation explains the relations between number of items by cost department:



[Equation]

Deposited mail + Incoming mail = Mail delivered + Mail dispatched

Consequently, the number of mail items dispatched can be obtained as follows:

Number of mail items delivered

- = Number of mail items deposited + Number of mail items ariving
 - Number of mail items dispatched

Normally, in each post office, the number of mail items deposited and number of mail items delivered are not equal (Deposited # Delivered) and therefore, number of incoming items and number of items dispatched are also unequal (incoming # Dispatched).

On the other hand, it is possible to consider the mail volume on national level as "Deposited = Delivered", consequently, incoming volume may be regarded as equal to Dispatched volume.

Republic of the Philippines Ministry of Public Works, Transportation and Communications BUREAU OF POSTS Manila

November 7, 1978

CIRCULAR NO. 53 SUBJECT: Cost Accounting Survey in the Bureau of Posts

The Postal Cost Accounting Study, composed of selected personnel from the Central Office and assisted by experts from the Japanese Postal Administration, will start the actual survey on November 13, 1978. The survey is aimed at providing data for the adoption of cost accounting in the Bureau of Posts.

To achieve its objective the following data are needed:

a) Mail Volume, b) Expenditure, c) Personnel Force, d) Working Time, e) Revenue and f) P.O. Quarters (space).

(Appropriate forms and survey sheets, complete with instructions on how to accomplish them, have already been finalized, printed and ready for distribution.)

In zeroing in on the final output, the survey will consider the Bureau's cost and income both in totality and units. It is necessary that all costs and revenues will be accounted in the post office, regional and central office levels (including distribution centers), irrespective of funding source.

Since the main objective of the study is to come up with a rational basis for postage rate-fixing, the centralized calculating system has been adopted in which various data required are all gathered at the central office where computation by item of expenditure and type of service may be performed for all post offices and other postal units.

This actual cost accounting is calculated to provide decision-making with basic data for determining the appropriateness of postage rates and for management and operational control. It goes without saying that accurate data not "guesstimates" are the object of this survey.

As the bulk of the mail volume and postal transactions are concentrated in Metro Manila and the main thrust is directed on the region's distribution centers, central post office and other selected post offices. Survey on other post offices outside Region IV will be conducted by mail.

In view thereof, it is directed that all concerned, those in the Central Office as well as those in the regions, from the regional directors down the line, commit themselves and devote the time necessary to make this survey a successful one.

FELIZARDO R. TANABE Acting Postmaster General MEMORANDUM for — The Postmaster

This is addressed to you directly because of time constraints involved and the urgency of statistical inputs for decision-making.

The attached forms are intended to realize the overall objective of th Postal Cost Accounting Study, which is to introduce cost accounting system in the Bureau of Posts. This actual cost accounting survey is intended to provide basic data for determining the appropriateness of postage rates aside from assisting postal planning in general.

You are directed to fill up the forms as accurately as possible using current data. In accomplishing the forms you are warned not to guess, always bearing in mind that what you are supplying the Central Office will be the basis of a comprehensive postal planning. Effective planning must be based on accurate data, among others. For your convenience, the forms and survey sheets designed to draw out data have been simplified.

Completed forms should be returned ______days upon receipt to:

The Postal Cost Accounting Study Management Section, FMD Bureau of Posts Manila

Strict compliance herewith is enjoined.

FELIZARDO R. TANABE
Acting Postmaster General

Copy furnished:
The Regional Director
The DPI

SAMPLING SURVEY (By Mail)

I. WHAT IT IS ALL ABOUT

This is a sampling survey on mail volume, working hours and money orders (domestic and international), separate from those for Region IV's Airmail Distribution Center, Foreign Surface Mail DC, Domestic Surface Mail DC and Central Post Office and other Regional DC's. Appropriate forms have been sent out to some 300 post offices of all classes. It is intended to provide data for the introduction of regular cost accounting surveys in the Bureau of Posts starting 1979.

II. METHODOLOGY

To assist decision-making on this score, the Bureau's expenditures by item are being calculated first, followed by claculation by work department (activity) and then by type of service (1st, 2nd and 3rd classes). The computations and summaries will be performed at the Central Office where all costs and revenues (income) will be compared to determine, among others, the appropriateness of postage rates.

III. THE SURVEY FORMS

For the Mail Survey alone four (4) forms are utilized, namely: CA-Form 1 (POST AND DELIVERED Mails); CA-Form 2 (Contents of a Mail Bag); CA-Form 3 (Working Hours) and Supplementary Form (Money Order Issued and Paid).

IV. HOW TO FILL UP THE FORMS

Upon receipt of the forms, the Postmaster who will be responsible for filling them up, should familiarize himself with them with the survey objective in mind. The following instructions should be strictly followed:

CA-Form 1:

- 1. This is intended to gather data for one whole day, preferrably Thursday, which is considered average day. Under the POSTED column, mails are categorized into: 1) those accepted over the counter (window) and 2) those collected from street and lobby drop boxes.
- 2. Under DELIVERED column, ordinaries, special/express and speed airmails are segregated under the ordinary mail sub-column. Only special delivery mails actually delivered as such by special delivery letter carriers (separate from ordinaries) are to be entered here.
- 3. Lack of mail volume data being a major weakness of the Bureau, care should be taken to make this portion as accurate as possible. Remember: ONLY DATA FOR THURSDAY SHOULD BE COUNTED AND ENTERED. No guessing.

4. Mail counting is reckoned with at the receiving stage so that lest-overs are disregarded when counting the day's mail.

CA-Form 2:

- 1. This form seeks to determine the contents of mail bags by each mode of transport for a THURSDAY i.e. Philippine Mail Truck, Inter-island Ship, PNR, Airplane and other mail contractors.
- 2. Only contents by type of service of ONE SAMPLED BAG is entered under each column.
- 3. Each mode of transport is broken into four (4) categories namely, parcel bag, interisland ship, ordinary bag with IRS inside and ordinary bag with parcels and ordinary items.
- 4. Buses and other unspecified mode fall under the column *OTHER MAIL CONTRACTORS*.

CA-Form 3:

- 1. Through this form working hours of employees by type of service and by work department (indoor and outdoor) are ascertained.
- 2. Cost accounting by department is the calculating procedure by which the costs computed by item are classified and tabulated depending on where the activity originates. For our purpose activities or departments are enumerated as follows: Counter service i.e. acceptance, money order, postage sales; mail processing, receiving and dispatching and delivery (ordinary mail, special/express delivery and speed airmail, etc.
- 3. First column is filled up with the names of personel in the post office followed by their positions and annual salaries.
- 4. Each succeeding column is to be filled up with the number of hours a particular employee spends per day by work department. (See sample).
- 5. Indicate number of hours spent on each activity i.e. Letter Carrier: 2 hours sorting; 6 hours delivering, etc.

V. DEADLINE FOR SUBMISSION

Accomplished forms should be sent back through the fastest means available within 24 hours after the first Thursday after receipt. For example: if the forms are received on any day before the specified day for completion (Thursday), the same shall be returned, completed, not later than Friday. On the other hand, if the forms are received on a Thursday, they should also be returned not later than the following Friday.

All survey forms, when fully accomplished, should be sent to:

THE POSTAL COST ACCOUNTING STUDY MANAGEMENT SECTION, F. M. D. BUREAU OF POSTS MANILA

CA FORM 1-A

SURVEY ON MAIL VOLUME BY TYPE OF SERVICE (TO BE ACCOMPLISHED BY POSTMASTER)

	Arrival											1	1	-				
		Sub-Total																
	Delivered	Speed																
Port Office:	Deliv	Express/Spl. Del. ""																
		Ordinary Mail "																
		Sub-Total																
	Postod	Drop Box Collection																
		Window Acceptance																į
		စို	101	102	103	104	105	106	101	80. 80.	109	110	111	112	113	114	115	
			**	lass		.5	·		8			1xt-Class	Parcels	Others	Jod L	Spl. Dol.	ol. Dol.	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(In please)	1st Class	2nd Class	Book	Parcols	Oth	Airmail	Surface	Airmail	Spood Airmail	,		Spl. Dol.	Express/Spl. Dol.	Non-Exp./Spl. Dol.		
į					Surface	·			J. Del.	(parat	Speed		Surface			Airmad		Totals
						Ordinary		-	Pyoness/Spl. Del.		1				Rogistored			
Survey Date: -		Types of Service						Domostic	Tie W	Posted	À							

Note: " Shall include special delivery mails delivered by letter carriers tegether with ordinary mails.

^{**} Shall include only special delivery mails actually delivered as such by special delivery, letter carriers separate from ordinaries.

CA FORM 1-B

SURVEY ON MAIL VOLUME BY TYPE OF SERVICE (TO BE ACCOMPLISHED BY POSTMASTER)

Survey Date:								Post Office:			
					Postod			Delivery	יני		
Types of Service	/ <u>8</u>	(try blocks)	စို	Window Acceptanco	Drop Box Collection	Sub-Total	Ordinary Mail *	Express/ Special Delivery **	Speed Airmail	Sub-Total	Arrival
		Lottora	201				-			/	
		Postcards	202								
	•	Printed Matters	203								
	Surrace	2nd Class Publications	204								
		Small Packets	205			-				,	
Cranary	<u>}</u>	Parcel Posts	206								
		Lotters	207								
thoing	•	Postends	208								
Foreign		Printed Matters	209								
<u> </u>		Air Parcels	210					/			
	3	Express/Spl. Dollvery	211								
-	Surrace	Othors	212								
no spierze v		Express/Spl. Dolivery	213								
	Agmen	Others	214				/				
Expres	Express/Spl. Dolivery	Surface	215								
(Non	(Non-Registered)	Airmail	216								
		Totals									

Note: * Shall include special delivery mails delivered by letter carriers tegether with ordinary mails.

Shall include only apocial delivery mails actually delivered as such by special delivery letter carriers, separate from ordinaries.

CA FORM 1-C

SURVEY ON MAIL VOLUME BY TYPE OF SERVICE (TO BE ACCOMPLISHED BY POSTMASTER)

	·	Arrival	T																
		Sub-Total																	
	ory	Spood Airmail																	
Post Office:	Delivery	Enpress/ Special Delivery																	
		Ordinary Mail *																	
		Sud-Total				/													
	Powted	Drop Box Collection						/											
		Window Accoptanco															/	/	
		စုစပ ပ	301	302	303	30¢	305	306	307	308	36	310	311	312	313	314	31.5	316	
		Mail Volumo (in pieces)	Letters	Postcards	Printed Matters	2nd Class Publications	Small Packets	Parcel Posts	Letters	Postcards	Printed Mattern	Air Parcola	Express/Spl. Dollvory	Surface Others	Express/Spl. Delivery	Others	Surface	Airmail	Totals
						Surface					Airmail			Surface		Airman	Delivery	istorod)	Ĭ
		Types of Service						Ordinary	•						Rogintored		Express/Spl. Delivery	(Non-Rogistored)	
Survey Date:		· · · · · · · · · · · · · · · · · · ·								To coming to	Foreign	Mail							

Noto: Shall include special dolivery mails delivered by letter carriers together with excinary mails.

Shall include only special delivery mails actually delivered as such by special delivery letter carriers, sepurate from ordinaries.

CA FORM 2-A

(TO BE ACCOMPLISHED BY POSTMASTER ON A WEDNESDAY OR THURSDAY)

Survey water:		/	Typon of Sorvice							_		Domestic	Mah	(Postod	(Alto				•
	Mode of					Surface	Organary		Airman	Exp./Spl. Dol.	(Non-Rog'd)	Speed		Service Servic	} }	Sold Sold Sold Sold Sold Sold Sold Sold		Airmuil	Total
	Mode of Transportation and Class of Bass			1st Class	2nd Class			Others	Airmail (Non-Speed)	Surface	Armail	Speed Airmail	INT Clans	Surface & College	Others	Exp./Spl. Del.	Non-Exp./Spl. Det.	Lixp./Spl. Del	Total
			Code	101	102	103	ş	105	106	107	108	109	110	111	112	113	114	115	
		R.P. N	કુદક વિજા				-	H			-		Н			_	_	L	
		R.P. Mail Vehiclo	5.5. Bag (Reg.) Ordinary Bag w/l.R.5. Inside		H	Ц	_		Н		Ц		Ц	Н			Ц		
Í		hiclo	Ord. Bay with Rateris & Ord. Items			Ц		Ц				Ц				_			
	N O		ક્ષાલ્યું ક્ષા રે		Ц														
	mber o	Inter-Island Vessels	5.5. 812 (803.)	1															
	fram c	purals slo	Ordianty Bass all R.S. Inside			H		H		Н	Н	H	Н				Н	-	-
	d itom other		Oid. Bag. with Parcels & Oid. Hems			Н		Н	H		H	Н	-				Н		-
	P,O.'	Ϋ́	शिल्मि डिड्र 			Н		Н	H	-	Н	Н		H					H
١	D.C.	Airplanes	S.S. Bag (Reg.) Ordinary Bag Signt, R.S. Maride														_		L
	in a se Tryd's	×	Ord. Bag with Parcels & Ord. Hems			L						_							-
	o opo		કુદધીજાદ્ર																
	Number of mail items contained in a sampled bag taken at random from bags received from other P.O.'s/D.C.'s by mode of transportation & class of bag	Trains	5.5. Bag (Reg.)		~		H		Н	-	H						Н		
	aken porta	.su	Sea ytenibiO M/1.2. Lebide Alica gea biO			H	Н	H	H	-	Н								
	ie randi		शिल्हों हैं Ord. स्थित शिल्हों डिड्ड	_			Н	-	-	-	Ц								
	forn fi	S S	5.5. 833 (Reg.)											_		_	_		-
	of bag	Other Mail Contractors	Sed ynaibio Sbanl .2.8.1/w																
	SS.	នដ	Ord. Bag with Parcels & Ord. Hems																-
		Ì	ફક્સ જિલ્લો		-		-	1			-	-							-
		Totals	S.S. Bag (Reg.) Ordinary Bag		-	-		-	-	-					1		_	-	_
		3	W.J. R.S. Inside Ord. Bag with Parcels & Ord. Items	_				-	-	-	\dashv	_		_	-	4			_

Note: Only the contents by types of service of one numpled bug shall be entered under each column

CA FORM 2-B

SURVEY ON THE CONTENTS OF MAIL BAGS RECEIVED (TO BE ACCOMPLISHED BY POSTMASTER ON A WEDNESDAY OR THURSDAY)

Post Office:

Number of mail from somation for a sampled by green at random from ones.	Survey Date:							1	Ì		ļ	ļ			2	rost Oilles	B			'	'					
Note of Transportation Note of Transportation Note of Transportation			,					ŽŽ	um Dor	of mo	ul itor other	2 0 0 0 0	s/D.C	9 6	mea a	oof to	ag tal	ten at ortatio	Tand Se d	a ssq	# 2	g ₂	i		1	$\neg \neg$
Number N	/	Mode of Brid	Transportation Class of Bays	· _	<u>م</u>	Madi	/ehdele		Inter	Island ticles		`	dry	NO.		1	ri a	ļ	ا	Sonta	Mak a			រដ្ឋ	្ន 🕇	
Surface Postcards Postcards Postcards Printed Marrers Small Praces Small Praces Airmail Printed Marters Airmail Printed Marters Airmail Warters Airmail Others Spi Del. Surface Others Spi Del. Swiface Spi Del. Surface Totals	Pos of			Oode	इस्सी क्राप्त	388 prinitio	35241,23,1/2 25349/2 558,530	4		%/I.R.S. Inside	संकारभे ब्रह्म हार्च का कि		ध्रध रुप्त यो छे । 🗸		tasil.60.8 ·			Ord. Bag w/Parcels			Ordinsty Bag T.R.S. Inade	double Bas w/Parcels	જુરી જિલ્લી		sbent, 2,8.1/#	Ord, Bag wir anders
Surface Printed Marters Surface 2nd Class Publications Small Praces Forces Posts Letters Airmail Printed Marters Airmail Printed Marters Airmail Others Spi. Del. Light Surface Cothers Spi. Del. Surface Spi. Del. Surface Totals			Taffork	201	l											-	4	1	1					\dagger	\dagger	T
Surface Printed Matters Small Practes Small Practes Forces Posts Letters Airmail Printed Matters Air Tool Matters Airmail Printed Matters Airmail Express/Spl. Del. Airmail Others Spl. Del. Surface Spl. Del. Surface Totals			Postenda	20										1	1	\downarrow	1	1						\dagger	†	ľ
Surface 2nd Class Publications Small Packets Forces Posts Lettors Airmail Printed Matters Airmail Express/Spl. Del. Airmail Others Spl. Del. Surface Spl. Del. Surface Totals		,	Printed Matters	9	-	H						1	1	-	-	-	4	ļ					Ī	t	t	Ţ
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Note: Only the contents by types of service of one sampled bag shall be entered under each column

CA FORM 2-C

SURVEY ON THE CONTENTS OF MAIL BAGS RECEIVED (TO BE ACCOMPLISHED BY POSTMASTER ON A WEDNESDAY OR THURSDAY)

ıſ	ļ		Ord. Bag w/Parcels & Ordinary Items	T	Ī	Ţ	7	7	Ţ	Τ	Ī	1	1	T	1	I	I	Ĭ	Τ	7
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Note: Only the contents by types of service of one sampled bag shall be entered under each column

Name & Signature of Postmaster

SURVEY ON WORKING HOURS OF EMPLOYEES BY WORK DEPARTMENT

CA FORM 3

Date

Post Office:

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		1	And Annual Salary	Salary														
		ŝ	S S	Position														
			Name of Employee														Totals	

-174-

Supplement	ary Survey Q	uestionnaire	:				
					Post Office:		
					Survey Date:		
by M	ode of Transi	portation			from Other P.O y or Thursday.		
Particula Mode of Transp	us of Mail Bags	Bags Containir Parcels only			S.S. Mail Bags (Registered only)	Ordinary Bags W/Parcels & Ord, Items	Totals
R.P. Mail Yehic	les						
Inter-Island Ve	556]s						
Airplanes							
Trains			-	-	\ <u></u> -		
Other Mail Con	tractors						
Totals							
II. Num	ber of Money	Orders Issu	ed & Paid (i	n pie	ces)		
		Domestic			Internati	onal	
	Issue	ed E	'aid		Issued	Paid	
				<u> </u>		J	
III. Num	ber of Stamp	s Sold					
					(i	n pieces)	
					Name & Sign	nature of Postma	ster

3. Survey on Unit Revenue

1. Purpose of the survey

It is necessary to undertake this kind of survey in order to determine the revenue for each type of service per mail item.

2. How to conduct the survey

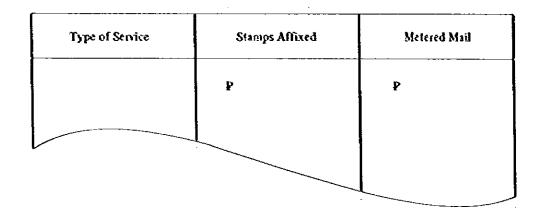
It is done by getting the amount of postage stamps affixed and that of meter stamps franked by metered machine per piece of mail item for each type of service again in sampled post offices.

3. How to tabulate the survey result

The total amount of postage stamps affixed or meter stamps and the total number of mail items gathered are tabulated and are computed by dividing the former data by the latter to get the unit revenue per type of service. Under Column C (total amount of postage stamps affixed or metered) and Under Column A (number of mail items) for each type of service in URFORM 1 (see Page 177) are tabulated and the quotient of these data will be the final column for Unit Revenue.

URFORM 2

TABLE OF UNIT REVENUE



Stamps Affixed: Metered Mail:

												ŀ	Ì		ŀ			Ì				
						Amt./	Torel			Total Fat			Total ami.	No. of	Amt.	folal ami.	No. of	Ami./	Total	+	Total	
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			J'sroels																			
			Olban			9,36			0.60	-		06'0	1. 		1.20			1.50				
		Atmail		-		06.0 0			0x'1			2,70	~		3,60			4.50				
	Exp./Spl. Del.	, ,	Surface			0.45		Ī	0.75			30.1			1.35			39.1				
	(Non-Kaja)		AUMAI			1,0,1			. 9.x			2.43			3,73			4.65				
	Speed Atmast	last.				3,00			90'+	-		2.00	_		00'9	- 1 - 1 - 1		7.00				
	Regintered Surface	Surface	NonKap.	1 of Class		0.75			1,03			1.33	-		1,63			1.93				
			ž	Purcels a											-				-			
	- -		(Non-Key,) Others	Others																		
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		Aimaii	Non-Kapi/Spl. Del.	<u>2</u> .		25.3			2,25		-	3,15			4,05			66				
			Rap./Spl. Del.	=		95.		<u> </u>	2,40			3,30			4.20			\$,10				
																						l

. Use separate form.

4. Depreciation

All fixed assets except land lose their usefulness with the passage of time. The several factors that contribute in varying degrees to this decline in utility are wear, the action of elements, inadequacy and obsolescence. Accordingly, the cost of such assets should be charged to expense in a systematic manner during this useful life.

This cost expiration that is periodically matched against revenue is called depreciation. Fixed assets are held for use rather than for sale and their market values are irrelevant. It is assumed that the enterprise will continue indefinitely as a going concern. Consequently, the decision to dispose of a fixed asset is based primarily on its utility to the enterprise rather than the amount that could be realized from its sale.

The factors to be considered in computing the periodic depreciation of an asset are its (1) cost (2) estimated scrap value and (3) estimated period of usefulness. The estimated remaining value of a depreciable asset, which is the amount expected to be realized upon its eventual disposition is frequently termed scrap value. The excess of cost over the estimated remaining value is the amount that is to be charged to depreciation expense during the life of the asset. We have computed the scrap value and the useful life of each fixed assets as per attached supplementary depreciation table (a) and (b) in accordance with the guideline issued by the Ministry of Finance.

The depreciation method most commonly used in the Philippines is the straight-linemethod. This method of determining depreciation provides for equal periodic charges to expense over the estimated life of the asset.

The following symbols are used in the formulas:

C = Cost

S = Scrap value

n = Estimated life periods

r = Rate of depreciation (per period)

D = Depreciation per period

To illustrate, the cost of Building is P12,507,590.53, its estimated scrap value is P2,501,518, and its estimated useful life is 67 years. The annual depreciation is computed as follows:

$$D = (C-S)/n = \frac{12,507,590-2,501,518}{67 \text{ years}} = P149,344$$

The annual depreciation of P149,344 would be prorated for the first up to the last partial years of use.

However, in our cost accounting we adopted the average depreciation rate.

First, we grouped the assets into three categories as follows:

A - Building

B - Delivery Equipment

C - Office Equipment

The different items that fall under each group of assets are indicated in the Supplementary Depreciation Table (a). In order to arrive at the average useful life of each group of assets except building we have to get the total depreciable value of the assets divided by the total amount of annual depreciation. In computing the annual depreciation rate we follow this formula:

D =
$$(1/n)(C-S) = r(C-S)$$

= $(1/67)(12,507,590-2,501,518) = 9.015 \times 10,006,072$
= $P149,344$

The depreciation rate is 0.015 multiplied by the cost of building amounting to P10,006,072 equals P149,344. This represents the amount of annual depreciation expense considered as cost to be apportioned to the different types of service.

The cost of an asset is to be allocated not only in a single period of time but over a period of time.

With lapse of time, the total amount of fixed asset will never be equal for each year, since with lapse of time, there will be new assets to be added on the one hand, white, on the other, some fixed assets may become outdated and disappear from the account.

Consequently, depreciation values for the fixed assets have to be computed every year. The computation of depreciation value for each year is conducted using "The Supplementary Depreciation Calculating Table (b)".

It is necessary to re-examine the annual depreciation rates applicable to each group of assets A, B and C (See Supplementary Depreciation Calculating Tables) once every few years using the calculation method shown in "The Supplementary Depreciation Calculating Table (a)".

SUPPLEMENTARY DEPRECIATION TABLE (a)

DETERMINATION OF ANNUAL DEPRECIATION RATE

	Amount of the Purchased	Percontage of Scrap	Scrap Value	Depreciable Value	Life Span	Depreciation Amount	Annual Depreciation (6) / (4)
Items of Assets	FY 1977 (1)	Value (2)	(3)	(1) - (3) (4)	(\$)		8
	p. 12,507,590	20%	2,501,518	10,006,073	years 67	149,344	0.015
	\$ 500 X		6.745.807	27,220,786	years	3,661,318	0.135
	CVC,000,44	20%	5.145.983	20,583,934	w ~	2,572,992	•
-	176,621,62	20%	1.552.313	6,209,254	v _	1,034,876	*
(2) Motor Vohicles & Accessories (2) Machanical Foundment	475,109	10%	47,511	427,598	∞	53,450	ı
	A		Ar.	A 742 01 A	years	703,117	0.045
Office Equipment & Others	17,493,239		626,847,1	10 210 357	20	610,518	ı
	13,567,063	801	200,000	45,363	្ន ន	4,536	'
(2) Non-expendable (2) material and Science Equip-	1,479,540	10%	147,954	1,331,586	8	66,579	1
	110.354	10%	11,935	107,419	<u>~</u>	21,484	ı
(4) Fire Fighting Equipment (5) Others	2,276,879	10%	227,688	2,049,191	0	· ·	•

Notes:

Source - Journal of Warrants Issued.
 Life Span and percentage of scrap value is based on the guidelines issued by the Ministry of Finance.
 Percentage of scrap value
 Building - 20% of the purchased price.
 Delivery Equipment - 20% of the purchased price except mechanical equipment which is 10%.
 Office Equipment - 10% of the purchased price.

SUPPLEMENTARY DEPRECIATION TABLE (b)

CALCULATION TABLE OF ANNUAL DEPRECIATION

-	· · · · · · · · · · · · · · · · · · ·												
	Depreciation of FY 19 (6) × (7) (8)	Ωv	ፁ	•	•	1	A		•		•	•	A,
	Depreciation Anton Rate	0.015	0.135	1	1		0.045	ı	1	ı	1	•	•
	Depreciable Value (3) - (5) (6)	s.	s.				A.						ρ.
	Scrap Value (3) x (4) (5)	Ġ.	Ġκ				s.						ር ት
	Per- centage of Scrap Value (4)	20 %	%	ឧ	20	20	%	ខ្ម	01	10	2	10	•
10 mm	The Average Amount of the Purchased Price (1)+(2)/2 (3)	À	A		-		Ωı						A
CALCULATION IN TABLE IN TAILURE TO THE TAILURE TO T	Amount of the Purchased Price at the End of FY 19 (2)	À	A				p.	•					¢
227/2	Amount of the Purchased Price in the Beginning of FY 19—— (1)	Sp.	Pa-				Α,	•					s.
Fiscal 19	Itom of Assets	Building	Delivery Equipment	(1) Trucks	(2) Motor Vehicles & Accessories	(3) Mechanical Equipment	Office Equipment & Others	(1) Furnitures	(2) Non-Expendable	(3) Technical and Science Equipment	(4) Fire Fighting Equipment	(5) Others	Total
	Group	<	Ω	•	•		v						1

(REFERENCE)

1. Depreciation Allowance of Machinery:

For purpose of assessment, a depreciation allowance shall be made for machinery at a rate not exceeding ten percent of its original cost or its replacement or reproduction cost (new), for each year of use: Provided, that the remaining value for all kinds of machinery shall be fixed at not less than 20% of such original or replacement cost for so long as the machinery is useful and in operation.

2. Article VIII - Assessment

Sec. 5: Rules for assessment of buildings and other improvements:

Buildings and other improvements owned by the Republic of the Philippines, its political subdivisions and government owned corporations shall be classified, valued and assessed like similar buildings and improvements in the locality. If the buildings and improvements are of a kind not covered by the schedule of base unit construction cost, they shall be valued at their fair market value at the time of appraisal and shall be assessed like similar buildings and improvements in the locality.

3. Depreciation Rate Tables

Buildings	.299
Buildings Equipment	.300
Office Equipment	.335
Motor & Other Vehicles	.337
Oil & Gas	.339
Production	.342
Transportation	.344
Printing & Publishing	.350
Motor Transportation	.369

4. Average Useful Life Years

o 338-Office Equipment = A composite life of about 15 years has been found applicable to office equipment:

Furnitures, fixtures and filing cases	20 years
Mechanical Equipments	8 years
Sales	50 years
Adding Machines	10 years
Mailing Machines	15 years
Cabinets	15 years
Calculators	10 years

	Bookeeping Machines	8 years
	Duplicating Machines	10 years
	Safes & Vaults	50 years
	Typewriters	5 years
	Fans, Electric	10 years
o	299-Buildings	
	Office Buildings	67 years
	Apartments	50 years
0	337-Motor & Other Vehicles	
	Motorcycles	4 years
	Trucks:	
	Outside Use;	
	Electric	10 years
	Gas, Light	4 years
	Medium	6 years
	Heavy	8 years
	Inside Use	15 years

5. Survey of Rent Free Post Offices

This survey is intended to ascertain the expenses for the operation and maintenance of the rent free post office buildings not shared by the Postal Administration.

SURVEY OF RENT FREE POST OFFICE QUARTER

Surrey	date	Post Office Province Region
TRUC	TIÓN: Check iter	ns which best describe your post office.
A.	OWNERSHIP OF	BUILDING:
		Situated in building owned by Bureau of Posts
		Situated in private building
		Situated in government building
В.	BUILDING MATE	RIALS:
		Concrete
		Semi-Concrete
		Light Materials
C.	AGE & CONDITI	ON OF BUILDING:
		New/Relatively New (1 - 10 years)
		Old but serviceable
		_Old and dilapidated
D.	APPROXIMATE (length x width)	CO CO
E.		EXPENSES FOR YEAR 1977
	ir ne neke M	ADE TO PAY FOR LIGHT AND WATER P_

NAME & SIGNATURE OF POSTMASTER

II. SURVEY RESULTS

Among the various surveys carried out by the cost accounting team, the following are the results so far obtained:

Examining the contents of these survey results, it is apparent that they are well arranged, the object having been fully understood, in spite of the limited time available.

In this way, through engaging directly in the conduct of various surveys required for cost accounting, valuable experience for improvement of the cost accounting system will be gained.

With regard to the survey results shown in this section, the following points have been noted:

(1) Expenditure and Revenue

Generally speaking, the survey results were well arranged. However, in the item *Life and Retirement* in FORM 101, if the total amount P5,700,000 is paid by the Government, "Non-cost* will not be originated.

(2) Unit Revenue

- a. It will be also necessary to calculate weighted average unit revenues for stamp affixed items and for metered mail items both by type of service so that a comparison may be possible.
- b. Although this survey will be conducted every year regularly for all types of service, survey results should not be applied directly as fixed figures. It is vitally important to modify the unit revenues partially or for all types of service after examining the multiplied results of the annual mail volume by type of service and unit revenue, so that the revenue entered in the item concerned shown in the Operating and Service Income corresponding to the product obtained.

i.e:

Revenue for a certain type of service

= Unit revenue for the service x Annual volume for the service

(3) Unit Weight and Capacity

Survey results for unit weights and unit capacities for mail items can be used continuously for years so far as such revisions as postal rates, modification of service details etc., which may influence unit weights and unit capacities of mail items may be carried out.

Consequently, it will be necessary to pay attention to a sufficient number of items for all types of service.

(4) Mail Volume Data

It may easily be presumed that all members of the counterpart members noted that summing up of the survey results requires fairly hard work. However, the effort may be rewarding.

As to the number of mail items deposited, if available, reliable statistical data for mail volume other than the results obtained through the cost surveys should be employed in the calculation. For other cost departmental mail volume data, it is important to modify the mail volume data obtained through cost surveys by multiplying the ratio (ACC / ACC'), a ratio between the number of mail items accepted, obtained through the cost survey (ACC) and the statistical data in question (ACC'), by the number of items for each cost department of incoming, dispatching and delivery obtained through cost surveys.

In order to avoid making the computation process overly complicated, it is convenient in various aspects to treat the nationwide mail volume (number of mail items) by type of service as follows:

Acceptance = Delivery Incoming = Dispatching

b. It is difficult to decide a multiplier to extrapolate monthly or annual number of mail items on the basis of survey results obtained during fixed periods since there are fluctuations in mail volume over months, days, and days of the week, and since also daily mail volume reflects influences of these fluctuations.

For the time being, we were obliged to utilize a multiplier "288" obtained simply

on the basis of the number of working days in a year. This is a question, however, to be examined hereafter, even if it is not related to cost accounting.

(5) Calculation of Unit Costs by Type of Service at the CPO, FSMDC, DSMDC and ADC

The cost accounting team members will have gained confidence since the cost accounting at 4 specialized offices (CPO, FSMDC, DSMDC and ADC) reached unit cost by type of service.

According to the observation made for unit costs shown in the form SPO 8, it is seemed that they are much smaller than expected. In order to obtain these unit costs, there should be 8 steps from calculating tables SPO 1 to SPO 8 for each specialized office. It will be necessary to re-examine the calculation processes from SPO 1 to SPO 7.

As to the contents of SPO 8, there will not be specific problems in grand totals shown in the columns "Total Cost", since these annual amounts were settled amounts for each of the 4 specialized offices. However, as to mail volume, we wonder whether the number of mail items handled at each section has been counted repeatedly, which would be an error.

For example, in the form CA-DSMDC-1 and CA-DSMDC-3, departmental mail volumes (number of mail items by department) for "Receiving", "Processing" and "Dispatching" are summed up and the sum totals are entered in the "Total" column. If these sum totals of mail volumes for each department are utilized for calculations, the unit costs appear small and are insignificant.

In cases where costs by type of service in a department are calcualted on the basis of the departmental costs, it is reasonable and appropriate that costs be apportioned to each type of service using number of mail items by type of service etc. in each of the cost departments.

However, in computing unit cost at a post office, number of mail items to be used is the number of incoming or outgoing items, but not the total number of items handled in each cost department of the post office. The calculation is conducted as follows:

Unit cost by type of service

Total of costs by department and by type of service

Number of incoming and deposited Number of despatched and delivered items by type of service items by type of service

From the foregoing, unit costs shown in pages from 200 are not actual unit costs.

The reason why the cost accountings for these 4 specialized offices have been separated from other ordinary post offices, has already been explained. However, since the services for mail items are not accomplished exclusively by these 4 specialized offices from acceptance and transportation to delivery but through the whole network of the country, a computation of unit cost should be essentially conducted on a nationwide basis using FORM 319 "Calculation of Unit Cost".

However, if purpose is a management analysis for the operation of mail handling at these 4 specialized offices, it will be an effective method for cost control to compare the results obtained in each office, or chronologically, by calculating conditional unit costs and dividing expenses for mail service operations by number of items handled for each specialized office, or for each section of these offices. In this case, it will be necessary to decide carefully what should be used for the number of items handled for the calculation of conditional unit costs.

1. Expenditures and Revenues

The Bureau of Posts reported an income of P140,516,703.87 for calendar year 1977. Out of this income, the Postmaster General is authorized to use 15% purely from the sales of stamps for non-recurring expenditures intended for the improvement of the service, subject to the provisions of Sec. 40 of Presidential Decree No. 1177, provided that all receipts shall be deposited with the National Treasury as income of the General Fund.

STATEMENT OF INCOME For the month of December, 1977

Account Code	Account Title	Current Month	Total to Date
56	OPERATING & SERVICE INCOME		
-100	Stamps Saks	P 383,750.89	P 20,051,708.29
-101	First Class Mail Permit	25,361.50	333,860.51
-102	Second Class Mail Permit	33,201.02	521,238.34
-103	Third Class Mail Permit	7,780.40	146,222.05
-105	Metered Mail (PM & Private)	6,800,507.38	28,163,305.92
-106	Box Rental	132,879.60	1,509,746.06
-107	Storage Fees	412.19	39,158.23
-108	Business Reply Envelope	60,345.65	387,218.29
-109	Miscellaneous	15,733.07	23,991.03
-201	Money Order Fees	480,152.23	1,967,501.29
	56 – Total	P 7,940,123.93	P 55,143,953.01
57	MISCELLANEOUS	**********	=======================================
-200	Prior Years Credit	(673,865.81)	896,653.44
-200 -800	Fines and Penalties	9.872.54	72,405.44
-900 -900	Others	52,406,82	760,182.60
-300	57 - Total	P (611,586.45)	P 1,729,241.48
	*****	=======================================	* 1,127,272.70
58	SALE OF ASSETS		
-200	Sales of Assets	36,676.91	61,603.39
	TOTAL INCOME - GENERAL FUND	P 7,365,214.39	P 56,934,797.88
56	OPERATING & SERVICE INCOME		
-400	Domestic Airmail Fees	293,612.15	8,856,668.50
-400	Domestic Airmail Postage	1,040,443.35	3,916,208.90
-500	For. Airmail Fees (unmetered)	2,227,703.38	12,385,447.17
-500	For. Airmail Fees (metered)	34,842.00	13,610,026.10
-500	For, Airmail Post (unmetered)	2,037,576.50	15,816,969.95
-500	Por, Airmail Post (metered)	739,908,08	19,231,346.24
-500	For, Airmail Income (unmetered)	52,939.95	1,754,458.91
-500	For, Airmail Income (metered)	699,279.70	5,044,743.64
	56 - Total	P 7,095,621.11	P 80,615,869.41
57	MISCELLANEOUS INCOME		
-200-(500)	Prior Years Credit	761,097.32	2,897,395.41
-900-(500)	Others	6,910.27	68,641.17
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	57 - Total	768,007.59	2,966,036.58
		• • •	
	TOTAL AIRMAIL INCOME	7,863,628.70	83,581,905.99
	GRAND TOTAL	P 15,228,843.09	P140,516,703.87

FORM 101

TABLE OF EXPENDITURE AND COST LUMP SUM

		Classification	Cata	Tabil		No	
Item			Code	Total	Cost	Non-cost	Remarks
Personnel	Salaries	Permanent	ŀ	82,863,345	82,863,345,-		
Service	0.012	Capual	2	196,624	796,624		
	ABow-	Uniform		1,665,120	1,665,120		
	ances Post		4	331,402	331,492		
	Over tim	e	5	7,114,033	7,114,033		
	Life & R scheme o	etirement (Covernment only)	6	5,700,000	2,972,638.46	2,727,361.54	
Sub-Total		7	98,470,524	95,743,162.46	2,727,361.54		
Maintenance	Travellin	g expenses	8	3,300,543.32	3,300,543.32		
& Operating	Sundries	Gasoline allowance	9	3,664,560	3,664,560		
Expenses		Bicycle allowance	10	152,640	152,640		
	Ì	Mail contractor	11	1,634,356.90	1,634,356.90		•
	ł	P.O. reatal	12	48,002.73	48,097.73		
		Telephone & Telegram	13	143,346	143,346		
		Transportation of mail	14	29,213,259.03	29,213,259.03		-
		Repairs	15	1,711,062.44	1,711,062.44		
	Ì	Training fees	16	670,396.63	670,396.63		
	•	Representation exps.	17	129,216.74	129,216.74		
	İ	Printing stamps	18	919,808 -	919,808		
	<u> </u>	Others	19	3,165,096.42	3,165,095.42		
Sub-Total			20	44,752,293.21	41,752,293.21		
Supplies &	Printed t	OF STATE	21	3,959,789.31	3,959,789.31		
Materials	Light &	Water	22	722,216.49	722,216.40		
	Gasoline		23	3,970,417.61	3,070,417.61		
	Spare pa	rts	24	2,225,649.35	2,225,649.35		
	Office st	pplies	25	2,673,141,64	2,673,141.64		
	Others		26	10,939,288.48	10,939,288.48		
Sub-Total Depreciation			27	23,590,502.79	23,590,502.79		
			28	9,145,197.64	9,145,197.64		
Retüemen	t gratuity		29	993,366.25	993,366.25		
Total			30	176,951,883.89	174,224,522.35	2,727,361.54	

Note: Some item of expenditures are not apportioned to different organization due to inadequate data and limited time,

^{*} Other sundries - includes insurance expense, junitorial expense, meal allowance of employees etc. and other sundries paid by deputized disbursing officers of the regional offices which could not be identified due to limited time.

^{*} Other supplies – includes electrical supplies and other supplies gold by deputized distursing officers of the regional offices which could not be identified due to limited time.

FORM 102

SEPARATION OF COST BY ORGANIZATIONS

Item		Classification	Code	Total Amount	Post Office	Regional Office	Central Office
Personsel	Permanent		1	82,863,345	67,797,389.06	9,253,235.94	5,812,720
Services	Salaties	Casual	2	796,624	344,524	-	452,100
×,,,,,,	Allow-	Uniform	3	1,665,120.	1,502,520.	- "	162,600
	ances	Post	4	331,402	331,402	_	
	Oner time		5	7,114,033	7,040,453	-	73,580
		etirement (Covernment	6	2,972,638.45	2,638,888.90	-	333,749.56
Sub-Total	<u></u>		7	95,743,162.46	79,655,176.96	9,253,235.94	6,834,749.50
Maintenance	Travelin	g expenses	8	3,300,543.32	2,888,162.30		412,381.0
& Operating	Sundries	Gasoline allowance	9	3,664,560	3,664,560	_	
Expenses		Bicycle allowance	10	152,640	152,640	-	-
·		Mil contractor	11	1,634,356.90	1,634,356.90	<u>-</u>	
		P.O. rental	12	48,607.73	48,007.73	_ '	
		Telephone & Telegram	13	143,346	43,746		93,600
		Transportation of mails	14	29,213,259.03	28,987,459		225,800.0
	i	Repairs	15	1,711,062.44			1,711,062.4
	1	Training fees	16	670,395.63		<u> </u>	670,396.6
	1	Representation exps.	17	129,216.74		-	129,216.7
	•	Printing stamps	18	919,808	-	-	919,803
	<u> </u>	Others	19	3,165,096.42	1,489,486.91	• -	1,675,609.5
Sub-Tota	1		20	44,752,293.21	38,903,418.84	-	5,843,814.3
Supplies &	Printing	g forms	21	3,959,789.31		-	3,959,789.
Materials	Light 8	Water	22	722,216.40	98,060.76		624,1557
	Gasetin	se se	23	3,070,417.61	2,672,720.40	-	397,697.
	Spare	खार	24	2,225,649.35	1,789.579.60	-	436,069.
	Office	કા પ્ રિકેડ	25	2,673,141.64	<u></u>	-	2,673,141
	Others		26	10,939,288.48	9,973,362.40	-	965,926.
Sab-tota	1		27	23,590,502.79	14,533,723.10	-	9,056,719.
Depreciation		28	9,145,197.64	9,145,197.6	-	-	
Retirem	ent gratuit	y	29	993,366.25	-	-	993,366
Tota	1		3.0	174,224,527.3	142,242,516.6	9,253,235.9	22,728,769

2. Unit Revenue

Explanation of the Survey Results

The results of this survey in sampled post offices is incomplete – not all types of service were being surveyed due to shortage of time so that there is a need to conduct again future surveys for a more accurate and reliable survey results of this kind.

UNIT REVENUE

·		Type of	Service		Code	Stamps Affixed	Metered Mail	
Domestic	Ordinary	Surface	1st Class		101	P0.32	P0.32	
Mail			2nd Class		102			
	İ		Books		103			
		}	Parcels		104	P4.20	P3.79	
	l		Others		105	P0.51		
		Airmail (Non-speed)		106	P0.91	₽0.98	
	Express &		Surface		107			
	(Non-Reg'		Airmail		103	P1.37	P1.40	
		Airmail			109			
	Regist-	Surface	Non-Exp.	1st Class	110	P1.47	P0.95	
	eted		Non-Spl.	Parcels	111	P9.35	₽8.57	
		ł		Others	112	P3.07	P4.35	
	İ	L	Exp. & Spl	l. Del.	113			
	l	Aimail	Non-Exp. (114	P10.20	₽8.25	
	<u></u>	<u> </u>	Exp. & Spl. Del.		115			
	Domestic	Total			116	_	-	
Money Or	der		Issued (Ite:	m)	201			
			Paid (Item	1)	202			
Foreign	Ordinary	Surface	Letters		301	P4.29	₽8.50	
Outgoing	1		Post Cards	5	302			
		ŀ	Printed Matters		303		P2.85	
	1		2nd Class		304	P0.42	P0.40	
	1		Small Pack	et	305		1	
]		Parcels		306			
		Airmail	Letters		307			
			Cards		308	P1.20		
			Printed Ma	tlers	309	P4.20	₽8.90	
		<u>L.</u> .	Parcels		310	P50.80	P71.84	
	Regist-	Surface	Exp. & Spl	, Del,	311			
	ered	· .	Others		312			
		Ainnail	Exp. & Spl	. Del.	313	P0.89	P4.43	
		<u> </u>	Others		314			
	Express &		Surface		315			
	(Non-Reg	M)	Airmail		316		· · · · · · · · · · · · · · · · · · ·	

3. Unit Weight and Unit Capacity

Explanation of the Survey Results

The following data obtained are results of trial surveys conducted on some post offices. Number of items were inadequate for certain type of service and no surveys were made on some types of service due to limited time. There is a need therefore to conduct accurate surveys on all types of service in as many post offices as possible in the future in order to obtain accurate and reliable data.

UNIT WEIGHT & CAPACITY OF MAIL ITEMS BY TYPES OF SERVICE

Type of	Service		Category	Code No.	Urit Wright (GRAMS)	Unit Capacity (CM ³)
)omestic	O. Sway	Surface	lst chss	101	11.34	35.90
NO EXPOSED CO	Ocean	2311304	Zed class	102	143.00	170.43
			Books	103		
	1			104	243.33	2.250.53
	1		Protes	105	90.66	234,02
	1 !		Others	106	7.35	36.96
			१०६४:११६५)	107	1.63	24.23
	Engress &			103	9.16	27.21
	(pesserig)		Arrel	109	164.10	1.285.20
	Seedarn				153.33	497.89
	Registered	Surface	Non-Exp. Ist class	110		7,353,41
			Non-Sol. Parcels	111	1,358.83	1,55534
	1	l .	Others	112		
	1	L	Exp. & Spl. Del.	113		
	i	EvarA	Non-Fup. & Spl. Del.	314	409.00	1,170.00
	Į.	j	Exp. & Spl. Del.	115	550.00	1,359.00
None stice	ंग्री			1_		
CCCER	Occura	Spriace	Letters	201	385.71	410.49
castops#	1 -	İ	Postcards	202		
	i .	1	Printed matters	203	25.76	384.87
		1	रेक्ट्रे लेख्ड	204	100.66	271.59
	1		Small packet	205	~-	
	1	1	Parceis	206		
	1	Akeal		207	5.95	18.45
	l .		Crés	108		
	1	1	Printed cutters	209	625.81	186.97
	1	ŀ	Dices	210	1,601.20	17,994.00
	Registered	Suffer.		211		
	MEDICA	a Source	Others	212		
	ŀ	Areal		213	18.00	53.82
		ATEZ	Others	214	113.59	891.33
	1	!		215		
	Extress 8		Armel	716		
	(MOHOL)			301		
Feerga	Ordinary	Sufac		302		
incoming	1	1	Posteras	303	 	
İ			Printed matters	304	106.83	202.19
		1	2nd chis		- 1(4.03	102.17
	1	1	Smill pecket	305		
		<u> </u>	Prots	1		14,40
		Area		307	5.49	6.60
			Postcards	3/3	4.40	230.21
			Printed matters	309	163.00	12,535.82
ł	L	_1	Air parcels	310	696.60	14,535.81
	Registere	J Surface	Exp. & S. L. Del.	311	-	
l	1	1	Others	312		
į .	Ī	Arra	Fro. 3 Sel Del	313	7.5	153.00
l			Others	314	82.03	265.50
1	Expres 1	255 DY		315	_	
	(acestrg	. 0	Aroui	316	31.44	118.43
Forexa			-1	1		1

Note: Trial surveys carried out at CPO, DSMDC, FSINDC, ADC, Angeles City P.O. & Dagodan City P.O. These data are the results of trial surveys.

A phyphen indicates no survey result available.

4. Mail Volume

Mail Volume Data

A survey recently conducted shows that in the 12-month period from January 1 to December 31, 1978, the Bureau handles approximately 457 million pieces of various kinds of mail matter.

Domestic mail constitute 62.21% of the total. Mail intended for other countries account for only 18.07%, while mail coming from abroad share 19.72%. The mail received from abroad is 1.65% more than the mail sent out.

The attached tables show in detail:

Table 1 - Approximate volume of mail handled for CY 1978

Table 2 -- Average mail volume handled daily

Table 3 - Distribution ratio of the volume of mail handled

2. Necessity of Mail Volume Data

The approximate volume of mail handled by the Bureau during the year under review dictates the budget for operating expenditures which should be asigned for the succeeding calendar year.

3. Categories of Mails

Mails are either ordinary or special, with the latter also considered as recorded mail. Recorded mails include registered, special delivery, speed airmail, check letters, etc. Exception are ordinary parcels and foreign airmail which are also listed but are still calssified as ordinary.

Mails are also classified as airmail or surface mails depending on the mode of conveyance used.

Another classification of mails are foreign and domestic mails.

4. Collecting Mail Volume Data

Being aware of the large volume of mails and their continuous flow through the post offices, daily individual count will be expensive, tedious and will disrupt the continuous flow, especially in big-volume offices. Thus, mail volume data has been generated by projection/extrapolation. Mail Volume survey has been carried out in sample post offices (see table for the distribution of sample post offices) from all postal regions all over the archipelago. The surveys in the Central Post Office, DSMDC, FSMDC and ADC (Tables 4 & 5) were personally supervised by the Cost Accounting Study Team, while surveys in other post offices were carried out by sending out questionnaires for the Postmaster to accomplish.

Methods Used and Factors Considered in Designing the Mail Volume Data Forms for Questionnaires

The formulation of the Mail Volume Data Questionnaires was based on all available information about the present system, previous postal studies, reading materials and on itnerviews and consultations with the concerned postal officials.

Initially, the Cost Accounting Study Team, undertook the identification of the type

of mail data to be collected and the points in mail processing operations at which these data should be collected. With these accomplished, the team then pondered on the formulation of mail volume questionnaire forms, taking into consideration the following:

- a) Who will use the information to be generated at present and in the future?
- b) In what forms should the information be?
- c) For what purpose will the information be used?
- d) Who will be greatly affected by the implementation of the mail volume survey? Who will be benefited?
- e) Will the survey be too expensive?
 Too time-consuming?
 Will it involve additional manpower and the use of certain devices?
- f) Will it be accepted to the people involved?

DISTRIBUTION OF SAMPLE POST OFFICES

Classification of Post Offices	A-1	A-2	В	c	D	E	Total
Total No. of Post Offices (ΣN)	31	16	39	83	260	1,431	1,840
Total No. of Post Offices chosen as sample, and which were sent survey questionnaires (Σ n)	11	16	23	25	39	100	213
Sample size chosen (in percent)	100%	100%	60%	30%	115%	7%	12%
Total No. of post offices that responded and returned survey questionnaires duly accomplished (Σ n')	5	6	18	25	37	56	147
Post offices (in percent) that responded and returned survey questionnaires duly accomplished	45%	38%	78%	100%	95%	56%	69%

The Annual Mail Volume by categories were estimated by using the following formula:

AMV =
$$\Sigma \times / \Sigma n^3 \times N \times 288$$

Where:

AMV = Annual Mail Volume

 Σx = Sum of the daily values taken from sample post offices of a certain class

 Σ n' = No. of sample post offices of that particular class

288 = Approximate number of working days during the year

TABLE 1. APPROXIMATE VOLUME OF MAIL HANDLED FOR CY 1978 (Projection)

						(Fioje	Cilony					(Pieces)
				Chaiferti	·a			Post (Xiisa Chusiis	2509		(72,)
Type of Screin						A-I	A-2	8	¢	Đ	E	Grand Total
							<u> </u>					
Domestic	Original	\$≥f⊁æ	lst coss		101	72,656,479	9,645,435	10,538,921	17,172,932	15,552,658	25,545,374	150,751,72
r2i			2±3 d2 %		102	45,533,020	2,009,000	1,364,353	4,147,724	433,657	850,668	43,454,45
			Books		103	537,612	45,520	5,743	57,521	20,000	23,63	8,151, 33
			Pr≈8		194	69,454	60,619	17,597	56,251	26,111	59,499	239,35
		45-37	Others scarned)		105	126,283	150,523	241,541	343,765	318,570	\$13,201	9,733,22
	Express				107	9,363,662	439,213	2,252,376 841,197	2,876,601 893,713	3,273,325 2,525,026	13,429,364 3,173,072	35,683,92 17,226,88
	(non-reg é	- ,	Ecail		108	456,178	563,955	227.617	358,598	316,361	1,356,936	3 333 24
	Specializa		L		109	1,038,653	232,757	201,631	187,698	4,618	-	1,661,75
			Non-Exp.	1श लेखा	110	5 132 113	661 241	1,242,543	2,093,378	2,728,7%	3,355,891	166:402
			Noo-Spil.	Paras	311	129,437	14,637	18,655	43,651	60,557	80,934	353.87
ł				Otten	112	1,547,566	9,154	21,265	199,178	92,701	272,076	1,667,47
			Exp. & Sp	ર હ્વ	113	568,260	31,243	ыун	57,974	147,240	263,753	1,143,44
				A SSL Del.	114	3,269,114	567,539	211,836	783,102	343,956	453,353	3,665,55
			Esp. & Sp	t Dd.	115	78,925	45,920	25,543	39,032	50,512	12,625	252,59
Doorstok					116	145,577,232	16,135,523	17,50,427	29,352,664	26,319,734	47,537,447	254,513.5
Mosey cese	lsrued (fa Paid (fier		·		291	<u> </u>			-		 	
Forega :	O: Sear	Surface	Letters		202 301	2 2 3 4 5 1 2	*****	43.636	1 444 444			
es goarg	CARA	32,12	icsaets		302	2,721,334 34,727	501,563 (8,368	\$1,535 14,350	1,666,60:9 51,337	1,635,523 104,161	6,775,317 270,528	
er goug			Pris 25 E		303	8,477,476	29,843	35,301	151,536	123,123	653,276	433.5
			रेक्ट संबद्ध		304	2,525,630	3,331	1,148	43,503	38,171		25173
			Saul red	let	355	9,471	1,435	6,314	19,332	27,473	30,956	11.21
			leas		3:4	78,925	8,923	24,058	48,503	15,438	_	175,35
		Escal	letters		332	23,833,561	2,114,616	3,111,558	5,356,855	5,635,115	8,365,493	43,371,55
			Cicis		35\$	7,456,334	27,656	67,732	764,241	328,641	418,772	9,318,31
			harie	a Mers	303	509,215	31,213	16,£45	928,576	135,454	239,645	1,450,83
			rezs		310	1755	16,533	22,350	45,723	46,781	92,761	425 g-
	I cancerd	Sariese	ELJ. A.S.	l Del	311	3,157	21,525	18,655		13,776	1(8,199	165,31
		EstiA	Ochers		312	1,343,125		19,503	300,292	351,652	255,143	2,274,47
		ATEM	Exp. 3 Sy Others	C De.	313	444.432	5,453	9,384	250 263	12,654	45,434	73,11
	Ergera &	S-3 D-1	Serface		315	656,627	129,253	41,615	300,262	227,304 1,722	239,645 162,442	1,555,14
	(sceng'd	-	Essia		3:6	21,099	6,927	2,870	37,023	24,355	38,745	164,34
Foreign	Oversy		Letzes		317	2,551,137	124,856	ווננוו	4,211,438	4,079,558	3(0)(4)	16,174,45
racing .	1		Foster &		312	214,674	93,275	77,855	328,992	353.[49	\$50,653	1,958,4
	l		Přezi r	21.522	319	11,617,930	179,603	256.£C4	500,241	£42,3%	1,663,335	13,558,31
			2nd chas		230	341,597	147,835	202,909	515,452	1,501,584	1,563,335	3,113,69
			فدو الده	ł <i>z</i> ą	321	129,437	14,637	35,014	51,373	58,835	141,728	431,0
			रेक्ट कर्न		322	75,768	61,592	437,222	17,535	150,210	354,445	\$,192,77
		Ai and	letizas		323	11,381,299	1,715,117	1,472,597	3,198,195	6,033,521	9,349,312	33,354,24
.		1	Postantia Postantia		324	377,526	126,260	265,779	560,224	574,267	1,229,551	3,559,93
	I	ł	Air parari		325 326	5,711,613	3,255,512	95,858	337,614	265,779	555,482	#J\$9,25
		Sartes	Exp. 4 Sp		327	11,611	17,833	35,914	75,194 2,870	167,617	456.954 342.154	797.57
	1		Others		328	*1741	<u> </u>	78,925	261,C&5	29,274	\$23,54 614,457	424,15 3,253,35
		Errik	Exp. 4 S	રાહ્ય.	329	15,239		23,26	42,763	92,761	113,244	357,07
	l		Ottens		330	729,261	130,572	157,276	426,763	578,875	1017350	
	Express &	St Dd.			331			1,365		13,459	743,209	762.54
	(accregic)	Aksad		332	597,830	6,627	14,633	21,812	15,169	269,021	
Foreign to					333	14,644,163	7,141,558	1,350,070	29,534,249	23,352,778	39,243,232	173,0:4,43
Cred to be	•				334	221,621,400	23577,511	25,250,547	43,553,313	43,533,512	47,668,679	457.507.56

TABLE 2. APPROXIMATE VOLUME OF MAIL HANDLED FOR ONE DAY (Survey day — A Thursday of November, 1978)

				Daily Mail V Chico										
Type of Service				V#3		A-1	A-2	>	c	Ð	E	िल्ल		
orestic	Ordinary	Sarfear	lstebs		101	251,207	717,10	36,721	59,836	55,584	90,492	525,267		
23		ì	2nd class		\$02	143,459	7,000	4,754	14,452	7,511	2,554	172,141		
-		i	Books		193	3,476	160	20	183	79	164	4,013		
1		ł	Porek		104	242	37	61	136	\$1	207	834		
ļ			Others		165	(12	629	843	1,245	1,110	1,823	6565		
		A 2 2 3 (2	೫೭೩೫(೪)		166	41,527	1,551	1,518	10,023	11,475	39,792	125,653		
	Engeess & S	તાં Oct	Steface		107	32,526	1,499	2,531	3,114	3,798	\$1,055	60,924		
ļ	(१८७-स्टब्रेड)		Airal		168	1,694	1,565	791	1,354	1,108	4,728	11,64		
	Special res	3			109	3,619	\$11	713	654	14		5,81		
	Fig Scree	Sæf∌æ	No Esp.	रियं एक्ट	110	11,579	1,304	6,420	7,254	9,508	13,633	55,79		
			Nos-SN	Prxs	111	451	51	65	173	231	287	1,23		
	1 1			Otters	1115	3,718	32	95	694	323	945	5,81		
			ELD. A.S.		113	1,930	109	242	202	520	919	4,61		
		Armail	Nie Esp.		114	6,422	1,569	733	2,745	1,158	1,719	12,17		
	ĻJ		Exp. 4 Sp	t DeL	115	275	160	69	102,272	176 93,£87	166611	991,34		
estestic le					116 201	512,115	56,221	62,375	102,772	75,547	166 [-31			
only test	la el Ge				202			!			1			
	Delice at		Letters		301	9,432	9,749	305	5,857	5,629	21,65)	44,66		
occ ga	Oct 8 ky	20111	Postcarés		302	331	7,.77	50	179	363	944	1,72		
20. E]		Prazas.	1.74-4	303	5,543	164	123	526	423	2,358	8,7		
			Ind class	2. K17	334	8,836	13	4	169	133	_	9,11		
			Seal tag	ket	305	33	5	22	36	23	103	21		
	1	l .	7xx3		3.8	215	29	84	163	54	_	61		
	i	Aireil	Letian		307	83£61	7,368	10,664	14,655	19,645	28,539	165,5		
	1		Cess		X8	25,512	789	136	2,663	1,143	2,656	32,4		
	i		histole	atters	309	3,163	109	58	443	472	\$35	5,0		
		1	Pezs	•	310	627	59	63	229	163	323	8,4		
	Reistace	Series	Esp. & S.	t Del	351	- 11	75	45	-	43	3)7	5		
		1	Orbers		312	4,675	1	65	1,645	8,245	\$53	1,9		
	1	ATEL	Exp. & S	્રા દિલો	313	-	13	32	-	42	162	2		
	1	Į.	Ochers		314	2,321	419	145	1,045	792	835	5,5		
	Espen &	Sal Del	Series		315	-	-	-		4	566	5		
	(score)	0	Keril		315	27	21	10	129	85	135	4		
Foreign	0:52xy	Swfax	Letters		317	9,031	2,855		+		12,783	56,3		
erric		i i	Recei	5 	318	14\$	325			1,357	2,554	6,8		
	1	1	Trace!		319	38,393	1		J		3,765	43,6		
		1	रिश्त दरस		339	1,331	513		1	1		33.2		
		i	Sca3 to	3 11	321	451	51		-			1,3		
			12.25		322	264	1 -		1	1	1,235	8,1		
		YEST	Letters		323	1		-+	- 1			117,5		
		1	levez.		324	1,253	-1			+	ł — —	24.5		
	1	1	ink to		325 326	19,539					· -	2.7		
	Parite	1 5-1-	Air reco		327	·	→	<u> </u>	- 10	4		1,4		
	1,435.		Otters		328		-1	- 27				-		
	i	13.0.3	fry. 4	C-1 ()-1	329	·		- 9			+	1,		
	1		Ottes		333					· •	+	10,		
	Expense	1 2-1 12-1	Szraz		331		-1	- 1		4		2		
	(NG-SEA	-	Aireil		333					· 		3,		
Cee ga l		·			333									
CONK					334							1,554.		

TABLE 3. RATIO OF THE VOLUME OF MAIL (FROM TABLE 1 DATA)

				Christica io	,			Post (Office Chargo	a'5):e		
Type of					1						· ·	Grass
Serioz						A-1	A-2	8	c	Ð	E	Total
· ·		Safex	। इंट टेंड्ड		101	32.53	37.33	43.74	34,42	32 19	29.80	32 9
±13			5 ಲಕ್ಷ ಲ್ಯಾಚ		102	18.32	8.38	5.43	8.31	0.87	0.93	10:
			Books		103	0.45	0.19	0.02	010	0.04	603	٥
			Peab		104	6.D3	10.0	0.07	0.11	0.65	0.07	O.
			Oržeis		165	9.16	9.15	0.55	0.70	0.64	0.63	0
		•	estices)		126	6.21	7.56	8.52	5.77	6.63	13 12	7.
	Express &		Selex		107	4,23	- 1.39	3.33	1.73	5.08	3.64	3.
	(x250g)		AFF23		108	0.22	2 3 5	0.90	0.78	e.£4	1.56	۰
	Speed alt r				109	0.00	0.57	C.J.1	0.38	0.61		0.
	Registered	Safax	Non-E19.	नि चैभ्ड	110	2.40	2.76	7.30	4.20	5.43	3.85	3.
			Non-Spl	Percela	111	0.06	93.0	0.01	0.10	0.12	0.09	0.0
		!		Oches	112	6.43	0.04	011	6.43	0.19	0.31	0.
			Esp. & Syl		113	027	0.13	0.32	0.12	0.30	0.30	<u>e.</u>
		Akmað		i Syl Dei	114	0.57	2.35	0.84	1.58	0.63	0.57	0.
	L	L	E23. 4 S;	L (Cel.	115	0.53	0.19	0.10	8±3.0	0.10	0.23	0
Desertie I					116	66.32	67.29	70.13	13.51	52.54	54.53	62
Kosty ost	er lss:(£				201							
	Paid (See	<u></u>	r <u> </u>		N)							<u> </u>
Fore ga	O: Tray	255,12			301	123	2.69	0.35	3.34	3.25	7 15	2.
c. C. E.			reserves		302	0.02	80.0	910	0.19	921	673	0
		1	Pie of pa	TROES.	303	6.67	0.12	0.14	0.30	Q.25	0.73	0.
			2nd class		304	1.14	0.02		0.10	\$13		0.
		1	Saul pub Peak	-	305	-	120	0.03	6.02	0.05	0.64	0.
		Aired	Leiens		306	003	0.64	0.19	0.19	0.93		C.
		X1.43	Person is		308	13.76	8.92	12.35	10,74	11.34	9.54	1)
			hazica		309	3.36 0.49	0.34	027	153	0.64	0.71	2.
	1	l	Peas		315	9.63	0.13 0.57	79.0	0.76	017	0.27	0.
	Registered	Sartura	Esp. & Spi	t nu	311		0.09	0.09	013	62.0	0.13	
	1	1	Others		312	-	. 029	0,61		0.03	0.15	0.
		Ecail	Esp. & Spi	r ru	313	6 83	0.02	92.0	6.63	0.72	8.29	<u>0</u> .
			Others	LLCL	314	9.30	0.50	0.16	0.63	0.45	0.65	
	Express &	Set Det	Szfex		315			0.10	2070	V.*3	0.27	<u>0</u>
	(scental)	-	Essik		3:4	60)	6 6 3	0.01	6.53	- e.c.s	0.54	
Foreign	Origny				317	1.)?	3.45	3.46	8.44	8.25	4,22	3.
incerte	I -	ı	Personal is		318	0.10	0.39	0.29	9.66	(40	055	0.
			fie zi e	Tiers	319	4.97	200	J.61	1.00	129	1 22	3.
	1	l	Zad chu		329	0.17	0.62	643	1.63	3.02	122	ó
		l	Sealgad	et	321	6 C6	910	0.14	010	012	0.16	0.
	i i	1	frak		322	0.93	0.26	3.71	018	0.36	0.41	6.
		Keail	Letiers		323	\$.14	7.15	5.13	7.52	12.14	19.74	1.
			Postaria		324	0.17	179	8.11	1.12	1.15	1.43	
			harte	4723	325	2.58	5.24	0.38	645	0.41	049	1.
		1	Akjerak		324	0.02	22.0	911	0.15	€ 34	452	0.
	Restret	Series	Esp & S		322	6.62		-	14.0	914	0.42	0
		L	Octes		321	_		9.31	3 12	6.65	0.73	6
		Essia	E1 p. & Sp	ા હતા	329	0.04		0.11	63.0	6.19	0.14	0.
	L		Olers		330	Ø.33	0.55	0.42	6.14	1.35	120	0.
	Expres 1	ડ્રાઇન	Sefex		331	~		(4.0		¢.53	0.85	0.7
	(2)25-11 £'6	•	Areal		332	\$.27	64.0	918	0.14	0.13	6.30	0
Forega to	₹ N				333	33.£8	32.71	29.13	41.16	47 (6	45.07	37.1
Can lo	4	-			334	100.60	02.001	100.00	100.00	03.001	150.69	1001

Table 4 SURVEY ON MAIL VOLUME - CENTRAL POST OFFICE - NOVEMBER 15, 1978

	_			Classification	in]	₽	osted	Delive	bsn:
Type of Service						One Day Volume	Percentage	One Day Volume	Percentage
	11-				1.01	101 530	49.22	65,366	27.96
Domestic	Ordinary S	intse [Ist chss		101	101,520	23.80	2,277	0.97
កន្ស	1 1	1	2nd class		102	60,073	0.69	63,282	27,07
	1 1	, ļ	Books		103	1,518		05,262	21,01
	1	ļ	Parceis		104	14	0.01	326	0.14
	1 1	إا	Others		105	13,775	5.46	42,096	18.01
			ion-speed)		106		3.79	3,864	1.65
	Express & S	pl Det. [Surface		107	9,569 352	0.14	3,001	
	(non-reg'd)		Eemik		108	850	0.14	875	0.37
	Speed airma				110	5,489	2.18	7,480	3.20
	Registered	Spalace	Non-Exp.	1st chrs		139	0.05	,,	-
	i l		Non-Spl	Parcels	1111	1,663	0.66	9	
	1			Others	112		0.29	300	0.13
	}	1	Fap. & Sp	LDel.	113	746	0.29	1,432	0.13
	i k	Cenuk		& Sgl. Del.	114	1,429	0.03	1,432	- 0.01
	<u> </u>		Exp. & Sp	L DAL	115	87		187,307	80.11
Domestic to					116	197,224	78.14	101,301	09.11
Money ord	er Issped (ite				201	(681)			
	Paid (item)	<u> </u>	r -		202	(205)		<u> </u>	ļ
Foreign	Ordizary	Surface			301	1,441	0.57		
outgoing	} !		Postcards		302	11			1
			Printed m	alters	303	2,263	0.90	 	
	1		2nd class		304	3,993	1.59		<u> </u>
			Small god	ket	305	15	6.01		.ļ <u> </u>
			Parcels		306	59		-l	- }
	1	Airmail	Letters		307	33,001			
			Cards		308	11,606		1	
	i i		Printed m	alters	309	3,407		<u> </u>	
	<u></u>	<u> </u>	Parcels		310	235			
ı	Registered	Suface	Exp. & S	eL DeL	311	- 3			ļ
	1	<u>L</u>	Others		312	142	0.06		
	l l	Genrik	Exp. & S	FL Del	313				
ĺ		<u>. </u>	Others		314	974	0.38		
	Extresz &		Surface		315				
	(10003468,0		Airmail		316	28		<u> </u>	
Foreign	Ordinary	Suface			317	-			-
kujuooni		1	Postcard		318		-1	16.256	7.17
	1		Printed n		319		-1	16,755	
		1	Ind class		320		-	203	0.08
	1		Small pa	ckel	321	-	- <u> </u>	95	
1	ļ		Parcels		322			16,234	
l	1	Akmail			323	·	- 	3,560	
1	I	1	Postcard		324		-	8,864	
1	1	1	Prited m		325 326		<u> </u>	57	
1		l	Air paro						
	Registered	2011505	Exp. & S	er ner	327		- 		-
	1	ļ	Others	1 15.1	328	ļ		49	
		Airmail		FLIST	329		- 		
		<u> </u>	Others		330				
1	Express				331		- 	673	0.2
<u></u>	(100 tieg d	1)	Aircoil		332	ļ 	- 3 33 ec		
Foreign !					333	· · · · · · · · · · · · · · · · · · ·		46,49	
Grand to	(2)				334	252,40	2 100.00	233,79	8 1 100.0

TABLE 5. APPROXIMATE VOLUME OF MAIL OF ADC, FSMDC & DSMDC FOR ONE DAY

(Number of mail items handled)

		_		Ossistatio	•		EC St. (teste)		MOC MARDEL CE)	DSMOC Durasia Salva Mai Dist Chi)		
Type of Serios						One Day ^a Yolume (glaces)	Perocetage	One Day * Vistance (places)	Pazelye	Oce Day* Volume (pieces)	Permanage	
Docestie	Orieny	Serface	ist ches		101	-				173,23	5311	
esi			25 des		152	-	-		i	41,747	11.76	
		li	Books		193	-	-			73	6.02	
			Pecels		154	-				411	013	
			Others	_	155		-			26,217	1.40	
			ace speed)		138	72,266	35 26		ļ	1,710	0.43	
	Engeral.				107		-			33,160	8 50	
	(missing's) Speed air s		Ayzel		169	1,459	0.72	ļ		11	-	
	Registered		Nie Esp.	la da	110	1,325	9.65	i			 	
	a capacita		Non-Spl	Para B	111			 	ł	31,397	8.54 6.45	
				Oles	1112			!	<u> </u>	3,604 419	€.43	
			Exp. 8 Sp	•	133	_		-	1	0,012	0.43	
		Areal	Nis£1p	· · · · · · · · · · · · · · · · · · ·	114	5,314	7.63	 	!	347	310	
		i .	Eng. & Sp	L DeL	115	233	0.11	· ·	i	_	 	
Domestic to	ं क्र				116	83,637	39.35	i	1	315,533	8.8 8.3	
Mosey or S	a baciga	(2)			201	-				· · · · · · ·	I	
	Paul (Zes				262							
Foct ga	Octrary	Surva			301		-	4543	10.55			
eck is			Postards		3/92			90	0.26	<u> </u>	<u> </u>	
	ļ .		Deze e	1325	303	-	- <u>-</u> -	8,25\$	2341	2,503	0.71	
	İ		2 of class		**			2,150	7.03	133	0.21	
		1	Soul rad Prock	let	305 306		-	43	♦13	17	6£1	
		Arras	E		3))	50,534	24 56	455	1.63	13	4.77	
	ĺ		Ceris		3/8	30334	24 54	ļ		15333	<u> </u>	
	•		histel ra	iliers	329	478	0.33	162	0.15	l ——	 -	
			72.23		310	172	0.23	259	0.55	 	 	
	Radacio	Secre	Esp. A S	t Det	310	_		1	 		050	
			Qu'en	_	312					 		
		ELSTA	E12. 4 Sg	t Del	313	30	10.0				1	
	<u></u>	L	Others		314	3,179	2.55	İ			1	
	Expens	Set Det	Serve		315	-						
	(n.serg'd		Aizel		315	22	E#1			769	022	
Feeriga	Or!Zeary	Sarax	Letters		317			1,677	3.54	ļ		
inacii e	1	1	Post cards		318	-	-	(5)	137	 		
	1	1	histor. Interes	1.505	319			\$52	1.01	6,750	2.45	
	1	1	Seed and		329			13%	24.53	4,709	132	
	l	1	Ta za		322		-	6,637	9.54 18.41	29	0.81 0.81	
	l	Airei			313	54,176	26,73	+ • ;•"	1	350	628	
]	Postavis		324	3,518	1,72	 		1	- V4	
		į	dined p.		325	6,936	251	 	†	1	 	
	L	L	Al parx		326	750	#37	100	929	1	-	
	Raiseed	Seriex	£ 1.2 & S		327	_	-	529	1.45	l		
		<u> </u>	Odes		328]	4,641	131	
	l	Ecsik	Esp. 4 S;	104	329	-		-		5	-	
	L	<u> </u>	O.zes		330	3,317	1.65					
	fixest	-	Safex		331				<u> </u>			
	(3.4=8.)	Airai		332	\$93	● 25		<u> </u>	ļ		
Ferres to					333	124,754	60.65	35,441	120.00	39,453	11.72	
Grafes	.				334	204,901	190.00	35,457	190.50	354,5%	100.00	

Note, * Sacrey Date | ADC | - Notember 17, 4978 FSNDC - Notember 16, 4978 BSNDC - Notember 16, 4978

5. UNIT COST AT CPO, DSMDC, FSMDC & ADC

CPO-SPO-8

				Classificatio	n		Unit Costs by Typentral Post Office)	e of Service
Type of Service						Mail Volume (One Year) (1) pieces	Total Cost P (2)	Unit Cost P (2÷1) (3)
Domastic	Ordinary	Surface	1st class		101	36,461,664	1,195,645.95	0.03
างยี	(2nd class		102	20,626,560	214,858.61	0.01
			Books		103	7,765,056	380,926.91	0.05
1		Ť	Parcels		101	4,032	30.19	0.01
			Others		105	807,849	29,809.86	0.01
i i		VRunsy (u	on-speed)		106	8,221,536	428,935.46	0.05
	Express Spi.		Surface	-	107	2,783,520	632,192.19	0.23
	(non reg o)		Armail		108	101,376	1,240.45	0.01
	Speed a remai	3			109	752,756	165,209.13	0.22
	Registered	Surface	Non-Exp.	1st class	110	3,988,512	437,289.51	0.11
			Non-Sel.	Parcels	111	40,032	5,104.86	0.13
		1		Others	312	2,052,283	142,519.23	0.07
			Exp. & Spl. Del.		113	423,360	90,889.25	0.21
		A¥ m ¥Š	Non-Exp. & Spl.	Del.	114	428,514	113,700.79	0.27
		ļ <u>.</u>	Exp. & Spl. Del		115	25,056	3,190.25	0.13
Domestic to					116	81,481,632	3,841,542.67	0.05
Money order	Issued (item Paid (item))			201 202	255,168	129,691.16	0.51
Foreign	Ordinary	Serface	Letters		301	415,008	3,639.54	0.01
outgoing	_		Postcards		302	3,168	30.19	0.01
			Printed matters		303	651,744	6,114.88	0.01
		ł	2rd class		304	1,149,984	9,672.55	0.01
			Small packet		305	4,320	30.19	0.01
		L	Parcels		306	32,256	56,551.49	1.75
		Akmail	Letters		307	9,504,288	88,956.45	0.01
			Cards		308	3,342,528	32,061.01	0.01
			Printed matters		309	405,216	3,473.55	0.01
		ļ	Parcels		310	69,984	15,896.73	0.23
	Registered	Sarface	Exp. & Spl. Del.	·	311	864	125.94	0.15
		1	Others		312	40,896	5,211.74	0.13
		Armail	Exp. & Spl. Del Others	•	313	220 512	35,719.58	0.13
	F C-1	<u> </u>	Sarface	<u>-</u>	315	280,512	33,/19.30	V.13
-	Express Spl		Airmail		316	8,064	60.35	0.01
Foreign	Ordinary	Surface	Letters	-	317	432,000	2,506.57	0.01
incoming	l wening	2001200	Postcards		318	8,640	38.65	0.01
recount		1	Printed matters		319	2,417,472	110,314.97	0.05
	1	1	2rd class	· 	320	·		 -
•	1	1	Small packet		321	232,128	6,776.39	0.03
	1	Í	Parcels	- -	322		16,781.54	0.61
	1	Etm EA	Letters		323		406,187.55	0.08
		1	Postcards		324		87,224.27	0.06
	ł		Printed matter		325		91,829.73	0.03
	i	1	Air parcels		326		9,188.33	0.61
	Registered	Surface	Exp. & \$1. De	1,	327	14,132	8,082.63	0.57
	•	L	Others		328	305,280	20,314.30	0.07
1		Esmit	Exp. & Scl. De	1.	329		1,168.58	0.21
	L	<u> </u>	Others		330	836,064	52,301.25	0.06
1	Escess &	\$54. Del.	Sui	face	331	_		
L	(maregid		Frmik		332		24,727.61	
Foreign to	tal .				333		1,227,680.73	
Grand tota	al .				334	114,458,400	5,069,223.40	0.04

(Pieces)

							(Pieces)
				Classificatio	n I	Approximate Volume of Central Post	
Type of Service						One Day Mail Volume Survey Date - Nov. 15, 1978	One Year Mail Volume 1978
Domestic	Ordinary	Surface	रिश लेख		101	126,603	36,461,664
ma រា			2nd class		102	71,620	20,626,560
			Books		103	26,962	7,765,056
			Parcels		104	14	4,032
		Ì	Others		105	2,805	807,840
	ļ	Airmail (non-speed)		106	28,547	8,221,536
	Express &		Surface		107	9,665	2,783,520
	(bon reg d)	,	Airmail	•	108	352	101,376
	Speed airm	1 1			109	2,612	752,256
	Registered	Surface	Non-Exp.	ist class	110	13,849	3,958,512
	Ť		Non-Sol	Parcels	111	139	40,032
			i -	Others	112	7,126	2,052,283
			Exp. & Sp	L Del.	113	1,470	423,360
	l i	Airmail	Non-Exp.	& Spl. Del.	314	1,453	428,544
			Exp. & Sp	J. Del	115	87	25,056
Domestic to	otal				116	293,339	84,481,632
Money orde	er Issued (ite	em)			201	507	1
	Paid (iten	1)			202	886	255,168
Foreign	Ordinary	Surface	Letters		301	1,441	415,003
galogina		İ	Postcards		302	11	3,168
			Printed ma	alters .	303	2,263	651,741
	Į.		2nd class		301	3,993	1,149,984
	1	} .	Small pack	ket	305	15	4,320
	1	Ĺ	Parcels		306	112	32,256
		Airceail	Letters		307	33,001	9,504,288
			Cards		308	11,666	3,342,528
			Printed ma	atters	309	1,407	405,216
	L		Parcels		310	243	69,984
	Registered	Suitece	Exp. & Sp	L Del	311	3	864
		Į.	Otless		312	142	40,895
		Airmail	Exp. & Sp	1. Del .	313		
	i	<u> </u>	Others		314	974	280,512
	Express &		Suface		315		-
	(0:00-168,0		Airusil		316	28	8,064
Foreign	Ordinary	Sufre	Letters		317	1,500	432,000
rocoming		1	Postcards		318	30	8,640
			Printed m	allers	319	8,394	2,417,472
			2nd class		320		
	1		Small pact	kel	321	806	232,128
	1		Parcels		322	95	21,360
	i	Lismik	Letters	_	323	17,566	5,059,008
	1	1	Postcards		324	5,317	1,531,296
	1	1	Printed m		325	10,016	2,834,608
	<u> </u>		Ya Letus		326	52	14,976
	Registered	Saltses		d. Del	327	49	14,122
	1		Otlers		328	1,060	305,280
	1	Airmail		N. Del	329	19	5,472
			Others		330	2,903	836,064
	Express &		Suitace		331		<u> </u>
	(non-reg'd)	Esmin		332	154	41,352
Foreign to					333	103,200	29,721,600
Grand tota	4				334	397,425	114,458,400

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				Classificati	on l		Unit Costs by Typi face Mail Distributi	
Type of Service						Mail Volume (One Year) (1) pieces	Total Cost (2) P	Unit Cost (2) ÷ (1) (3) P
Domestic	Ordinary	Surface	1st class		101	80,505,504	1,314,531.86	0.02
กลปี]		2nd class		102	14,966,496	198,675.67	0.91
			Books		103	57,600	1,085.51	0.02
			Parcels		104	133,344	81,496.93	0.61
			Others		105	10,461,600	124,300.03	0.01
		Armail (n			106	391,680	15,745.61	0.04
	Express & Sp	d. Del.	Surface		107	13,824,576	81,714.58	0.01
	(non-reg'd)		Aimail .		108	3,168_	22.13	0.01
	Speed ammai				109	-	-	
	Registered	Surface	Non-Exp.	1st class	110	6,355,584	964,795.70	0.15
			Non-Sel.	Parce!s	111	321,408	38,239.94	0.12
	1		L	Others	112	87,840	17,327.22	0.20
			Exp. & Spl. Del.		113	-		<u> </u>
	1	Pem vA	Non-Exp & Sol.	Del.	114	-	-	
_	<u> </u>	L	Exp. & Spl. Del.		115		<u> </u>	
Domestic tot					116	127,108,800	2,837,935.18	0.02
Money order		<u> </u>			201			
	Paid (item)				202		<u> </u>	-
Foreign	Ordinary	Surface	Letters		301	3,537,792	71,843.55	0.02
outgoing	1		Postcards		302			- -
	i		Printed matter		303	720,000	12,387.84	0.02
			2nd class		304	315,072	4,765.18	0.02
			Small packet		395	\$1,520	129.16	0.01
	1		Parcels		306	5,472	4,355.93	0.80
	1	Airmail	Letters		307	703,008	5,447.15	0,01
			Cards		308	5,760	24.53	0.01
	1	1	Printed matters		309	77,184	1,542.79	0.02
	D. T. S. T.	5	Parcels		310	2,592	4,798.03	1.85
	Registred	Serface	Exp. & Spl. Del. Others		311	3 076	- 10.03	
		Airmail			312	3,456	12.27	0.01
	•	VRUISA	Exp. & Spl. Del. Others	•	313	4.600		-
	Exceess & S	1 6.1	Surface		314	4,608	24.53	0.01
	1	gi. Der.	Viturij Sutste		316	3.440	22.12	0.01
Foreign	Ordinary	Surface	Letters		317	1,440	22.13	
incoming	Country	Senace	Postcards		318	ļ	-	-
nconta			Printed matters		319	2,529,504	34,220,26	0.01
	1		2nd class	<u> </u>	320	1,353,600	17,951.52	0.01
		1	Small packet	· ·	321	5,760	92.32	0.02
		İ	Parcels		322	13,248	69.63	0.01
		Airmail	Letter		323	17,210	07.07	1 031
		112 (1:24	Postends		324		` _	
	ı	1	Printed matters		325		 	 -
	1		Ar parcels		326		-	-
	Registered	Surface	Exp. & Spl. Del		327		-	
		[Others	•	328			1
	ı	Airmail	Exp. & Spl. Del		329	• #		1 -
	1	I	Others	<u> </u>	330		 	1 -
	Express & S	A. Dd.	Surface		331			
	(Vastreal)		ErmiA	<u> </u>	332		<u> </u>	<u> </u>
Foreign tot					333		157,686.82	0.02
Grand total			· · · · · · · · · · · · · · · · · · ·		334		2,995,622.00	0.02

							(Pieces)
				Classificati	ion	Approximate Volume of Domestic Surface Mail D	
Type of Senice						One Day Mail Volume Survey Date - Nov. 16, 1978	One Year Mail Volume 1978
Domestic	Ordinary	Surface	1st class		101	279,533	80,505,504
Mail	i		2nd class		102	54,967	14,966,496
]	Books		103	200	57,600
			Parcels		104	463	133,344
		L	Others		105	36,325	10,461,600
		Airceail (non-speed)		106	1,360	391,680
	Express &				107	48,002	13,824,576
	(non-reg'd)		Lismui A		108	11	3,168
	Speed airm				109	-	-
	Registered	Surface	Non-Exp.	1	110	22,068	6,355,584
			Non-Spl.	Parcels	311	1,116	321,498
			<u> </u>	Others(CO		305	87,840
			Exp. & Sp		313		
		Airmail		& Spl. Del.	314	<u>-</u>	-
	<u> </u>	L	Exp. & Sp	l. Del.	115	-	
Domestic to					116	441,350	127,168,800
Money orce	Issped (ite				201		-
	Paid (iten		T		202	<u> </u>	
Foreign	Ordinary	Surface	Letters		301	12,284	3,537,792
Sarohno		i	Sostemas		302	<u> </u>	-
	l .		Printed m	allers	303	2,500	720,000
	į.	•	2nd class	<u> </u>	304	1,094	315,072
	1		Small pact	cet	305	40	31,520
	1	Airmail	Parcels Letters		306 307	19	5,472
	1	VAGE	Cards	···-		2,441	703,008
	ł	ì	Printed me	11356	308	20	5,760
			Parcels	ittef\$	310	268	77,184
	Registered	Surface	Fap. & Sp	t DJ	311	9	2,592
	K(ED:C)CG	Suitece	Others	£ DC1	312	12	3466
		Airmail	Exp. & Sp	I Dal	313		3,456
	-	naucu	Others	L IXI	314	16	
	Express &	Sal Dal	Surface		315	10	4,608
	(2001eg d		Armail		316	<u> </u>	1,440
Foreign	Ordinary		Letters		317	3	1,910
incoming			Postcards		318		
	l		Printed ma	otlers	319	8,783	2,529,504
	ŀ		2nd class		320	4,700	1,353,600
		1	Small reci	ie i	321	20	5,760
		1	Parcels		322	46	12.010
	1	Akmail	Letters	-	323		13,248
	I	1	Postcards		324		
			Printed ma	ittess	325	_	
	L_	1	An parcel		326	_	
	Registered	Surface	Exp. & Sp		327	_	
	1	Ł	Others		328	=	
	1	Lean w A	Exp. & Sp	L Del.	329	_	
	<u> </u>	<u>L.</u>	Others		330		
	Express &	Spl. Del.	Serface		331	_	-
	(non-reg d)	Airmail	· ·	332	_	
Foreign tot	21				333	32,257	9,290,016
Grand total	ı ————				334	473,607	136,398,816

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		_		Classificatio	n		Unit Costs by Ty face Mail Distribu	
Type of Service						Mail Volume (One Year) (1) Pieces	Total Cost (2)	Unit Cost (2÷1) (3) P
Domestic	Ordinary	Surface	lst class		101			
บบเลยรถยะ เหลาไ	Ologialy	Syllace	2nd class		102			
N S D			Books		103		l — · · · · · · · · · ·	-
			Parcels		101			
			Others		105			
		Airmail (n	on-speed)		106			
	Express & S	pl. Del.	Suface		107		<u> </u>	1 :
	(non-regid)		Airmail		108			
	Speed airma		T	···	109			
	Registered	Surface	Non-Exp.	1st class	110			
	j		Non-Spl.	Parcels Others	111 112			-}
			Exp. & Spl. Del		113			
		Airmail	Non-Exp. & Sp		114		<u> </u>	
		Name	Exp. & Sol. De		115			
Domestic to	tak	L	12p. ca op a o c	<u> </u>	116	,-		
Money orde)			201			
	Paid (item)	<u> </u>			202			1
Foreign	Ordinary	Surface	Letters		301	1,808,640	30,398.56	0.02
००(६०)छर		1	Postcards		302	25,920	422.64	0.02
			Printed matters	5	303	2,382,336	40,010.96	0.02
	İ	1	2nd class		304	708,480	11,912.10	0.02
	i	1	Small packet		305	12,960	207.48	0.02
	· I		Parcels		306	188,040	139,318.22	0.74
		Airmsi3	Letters Cards		307 308	· · · · · · · · · · · · · · · · · · ·		
			Printed maters		309			
	1	i	Parcels		310	<u> </u>		<u> </u>
	Registered	Surface	Exp. & Spl. De	1.	311			
	, and a second		Otters LC/AO		312	132,763	26,866.86	0.20
	1	Ecauk	Exp. & Spl. De	1.	313		1	1
	ł	1	Others		314			
	Express &	pl. Del.	Surface		335			
	(b'डुऽस्तव्स)		Airmeil		316			
Foreign	Ordicary	Sattros	Letters		317		13,270.33	0.02
incoming		1	Postcards		318		2,332.32	0.02
	- 1		Printed matter	<u>. </u>	319	586,368	156,068.50	0.27
	1		2nd class Small cacket		320	2,873,058	48,290.20	0.02
			Parcels		322	8,352 1,160,352	125.23 372,437.96	0.01
İ	1	Lienil	Letters		323		312,737.30	0.52
	İ	nunxu	Postcards		324		- 	-
		1	Printed matter	15	325		1.	<u> </u>
			Air percels		326		1	
	Registered	Surface	Exp. & Spl. D		327			
			Others LC/AC		328		38,692.52	0.22
		Airmail	Fap. & Spl. D	eŁ.	329		<u> </u>	
			Others		330		1	
Î	Express &		Surface		331			
Factor 1	(two-teg'd	<u>'</u>	Aireal		332		600 370 60	
Foreign to					333		8\$0,379.88	80.0
Grand tota	11				334	10,972,800	880,379.88	80.0

(Pieces)

			•	Classificatio	n	Approximate Volume of Foreign Surface Mail Di	
Type of Service						One Day Mail Volume Survey Date - Nov. 16, 1978	One Year Mail Volume 1978
Domestic	Ordinary	Surface	Ist class		101		
nail	0,02,03,	J	2nd dass		102		
1413			Books		103		
	1	· ·	Parcels		104	·	·
		ì	Others		105		
		Airmail (non-speed)		106		
	Express &	Spl. Del.	Surface		107		
	(non-reg'd)		Airmail		108		
	Speed sirm				109		
	Registered	Surface	Non-Exp.	1st class	110		
	1		Non-Spl.	Parcels	111		
	1			Others	112		
	i		Exp. & Spl.		113		
	1	Airmail	Non-Exp. 8		114		
	J	L	Exp. & Spl.	. Del	115		
omestic to				<u> </u>	116	<u></u>	
locey orde	i Issed (it				201		
	Paid (iten				202		
oreșen	Ordinary	Surface	Leiters		301	6,280	1,808,640
utgoing			Postcards		302	90	25,920
			Printed guar	llers	303	8,272	2,382,336
	1.	Ĭ	2nd class		304	2,460	708,480
	1		Small pack	: E	305	45	12,560
	1		Percels		306	655	188,640
		Akeail	Letters		307		
		<u> </u>	Cards		308	·	<u> </u>
		1	Printed matters Parcels		309		
	1	66	<u> </u>	. .	310		ļ
-	Registered	2,111166	Exp. & Spl		311	·····	
		1: -	Others LC/		312	461	132,768
•		Etanik	Exp. & Spl Others	IRI.	313		
•	ļ	C-1 D-1			314		· · · · · · · · · · · · · · · · · · ·
	Express &		Surface Airmail		315		
`	(EVB-reg'd				316	3.630	221.264
orega aginon	Ordinary	Surface	Letters Postcards		317	2,678 480	771,264
:recarred		l	Printed ma	ffere	319	2,036	138,240 586,368
	1	1	2nd class		320	9,976	2,873,088
	1		Small pack		321	29	8,352
	ļ		Parcels		322	4.029	1,160,352
	•	Airmail			323	*,047	*,100,502
			Postcards		324		
	1		Printed ma	llérs	325		l
	1		Air parceis		326		
	Registered	Surface			327		l
	1	I .	Others LC!	AO	328	609	175,392
	l	lismil	Exp. & Sol		329		
			Others		330		
	Execess &	Scl. Del.	Suface		331		
	(non-regid		Airmail		332		f
Foreign to:					333	38,100	10,972,890
i ciconio:					334	38,100	10,972,800

ADC-SPO-8

		_	C	lassification			Unit Costs by Type il Distribution Cent	
Type of Service						Mail Volume (One Year) (1) Pieces	Total Cost (2)	Unit Cost (2÷1) (3) P
Domestic	Ordinary	Surface	1st class		101			-
กลนี			2nd class		102			-
	1		Books		103			
			Parcels		104			
			Others		105			
		Alemail (n			106	21,287,808	145,831.50	0.01
	Express & S	pl. Del.	Surface	· · · · · · · · · · · · · · · · · · ·	107	423,072	4,650.23	0.01
	(non-reg'd) Speed airma	<u> </u>	Airmail		10\$ 109	528,192	367,653.98	0.70
	Registered	Surface	Non-Exp.	1st class	110	320,132	307,033.78	0.70
	VERPER	3011200	Non-Spl	Parcels	111			
				Others	112			
		Ì	Exp. & Spl. De	L	313			
	1	EemiA	Non-Exp & Sp	l. Del.	114	1,539,072	289,683.41	0.19
			Exp. & Spl. De	:1.	115	67,104	10,026.65	
Domestic to				-	116	23,845,248	817,845.77	0.03
Money order	r Issued (item)			201			
	Paid (item)				202			
Foreign			Letters		301			
outgoing	(COLUE		Postcards		302 303			
		ļ	Printed matter 2nd class		304			· · · ·
		İ	Small packet		305	6,336	2,609.34	0.41
	1		Parcels		306	145,728	59,517.34	0.41
		Akmail	Letters		307	35,876,736	330,604.11	0.01
	•		Cards		308	1,533,024	17,339.89	0.01
			Printed matters		309	1,033,920	10,743.39	0.01
		L	Others		310	961,056	11,489.20	0.01
	Registered	Remail .	Exp. & Spl. D	લ	311	8,640	313.28	0.04
	İ		Letters		312	653,760	76,984.74	0.12
Express		ļ	Printed matter	rs	313	57,600	1,659.47	0.03
	F	1 8.1	Otlers		314	201,600	6,593.42	0.03
	(noarego)		Surface Airmail		315	45,792	526.25	0.01
Foreign	Ordinary	Surface	Letters		317	43,172	320.23	0.01
incoming Ottomary		102.1	Postcards		318	<u> </u>		1
	necouning		Printed matte	15	319	i e	1	l
		<u> </u>	2nd class		320			1
	Ì	ì	Small packet		321	126,720	92,858.76	0.73
			Others		322		5,677.58	0.02
		Lismik	Letters		323		427,152.04	0.02
	1		Postcards		324		25,955.57	0.02
			Printed matte	1	325		38,236.57	0.02
	D. 2. 1. 2	Akmail	Air parcels Exp. & Spl. E	1 61	326 327		115,808,85	0.54
	Registered	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Letters	A.E.	328		265,915.94	0.11
		1	Printed matte	75	329		30,750.92	0.18
			Others	· · · · · · · · · · · · · · · · · · ·	330		12,346.40	0.17
-	Express &	ScL Del.	Surface		331		1	
	(BOB-regid		Airmail		332			1
Foreign to	ial .				333		1,534,811.38	0.02
Gurd tota	1				334	93,717,216	2,352,657.15	0.03

						(Pieces)
	Classific				Approximate Volume of Airmail Distribut	
					One Day Mail Volume Servey Data - Nov. 17, 1978	One Year Mail Volume - 1978 -
Ordinary	Surface	1st class		101		
		2nd class		102		
		Books		103		
		Parcels		104		
		Others		105		
				106	73,916	21,287,808
				1 1		
		Anmil				423,972
		r 			1,834	528,192
Registered	Surface					
		VOB-9br				
		Du. 0.0-				
	4 irmail				6.246	1.630.033
	Venza					1,539,072
	·	LAP. C. SP	L DCI.			67,104 23,845,248
	क्ष	· · · · · · -			61,630	23,013,213
Ordinary	Sulsce	Letters	-			
-		Postcards		302		-
ľ		Printed ma	iters	303		
	L	2cd class		304		
ļ	Lismail A	Small pect	et	305	22	6,336
		Parcels		306	506	145,728
		Letters			124,572	35,876,736
ľ					5,323	1,533,024
ľ			llers			1,033,920
						961,056
Registered	Airmail		L Del.			8,640
						653,760
ŀ	i		tters			57,690
Tamana 8	C-1 D-1				700	201,600
					250	45.503
					139	45,792
Oldsely	Suitate		·			
			liers			
		<u> </u>				
	ŀ		et		410	126,720
		Others		322	1,095	315,360
į	liten vi A	Letters		323	79,266	22,828,603
	l	Postcards		324	5,665	1,631,520
		Printed m		325	7,497	2,159,136
į	•	Air parcel		326	750	216,000
			I Dat	327	51	14,688
Registered	lismik	Exp. & Sp	LLTL			
Registered	LiseniA	Letters		328	6,311	1,817,568
Registered	Airmail	Letters Printed ma		328 229	580	167,040
		Letters Printed m Others		328 229 330		
Express &	Spl. Del.	Letters Printed m Others Surface		318 229 330 331	580	167,040
	Spl. Del.	Letters Printed m Others		328 229 330	580	167,040
	(non-reg'd) Speed ainm Registered I Stoord (ite Paid (item Ordinary Registered	Express & Spl. Del. (non-reg'd) Speed airmail Registered Surface Airmail Issued (item) Paid (item) Ordinary Surface Airmail Express & Spl. Del. (non-reg'd)	Parcels Others Airmail (non-speed) Express & Spl. Del. Surface (non-reg'd) Speed airmail Registered Surface Non-Exp. Speed airmail Registered Surface Non-Exp. Exp. & Spl. Del. Exp. & Spl. Del. Exp. & Spl. Del. Exp. & Spl. Del. Exp. & Spl. Del. (non-reg'd) Ordinary Surface Parcels Registered Airmail Exp. & Spl. Del. (non-reg'd) Ordinary Surface Letters Printed ma Others Express & Spl. Del. (non-reg'd) Ordinary Surface Letters Postcards Printed ma Others Express & Spl. Del. (non-reg'd) Ordinary Surface Letters Postcards Printed ma Others Express & Spl. Del. (non-reg'd) Ordinary Surface Letters Postcards Printed ma Others Express & Spl. Del. (non-reg'd) Ordinary Surface Letters Postcards Printed ma Others	Parcels Others Ahmail (non-speed) Express & Spl. Del. Surface (non-reg'd) Speed airmail Registered Surface Non-Exp. Ist class Non-Spl. Parcels Others Exp. & Spl. Del Ahmail Non-Exp. & Spl. Del Ahmail Non-Exp. & Spl. Del Exp. & Spl. Del Issued (item) Paid (item) Ordinary Surface Letters Postcards Printed matters 2cd class Ahmail Small packet Parcels Letters Cards Printed matters Others Registered Ahmail Exp. & Spl. Del. Letters Printed matters Others Express & Spl. Del. Surface (non-reg'd) Ordinary Surface Letters Postcards Printed matters Others Express & Spl. Del. Letters Printed matters Others Express & Spl. Del. Letters Printed matters Others Express & Spl. Del. Letters Printed matters Others Express & Spl. Del. Letters Printed matters Postcards Printed matters	Parcels 104 Others 105 Alimail (non-speed) 106 Express & Spl. Del. Surface 107 (non-seg'd) Alimail 108 Speed alimail 109 Registered Surface Non-Exp. Ist class 110 Non-Spl. Parcels 111 Others 112 Exp. & Spl. Del 113 Alimail Non-Exp. & Spl. Del 114 Exp. & Spl. Del 115 Issued (item) 201 Paid (item) 202 Ordinary Surface Letters 301 Postcards 302 Printed matters 303 Alimail Small packet 305 Parcels 306 Letters 307 Cards 308 Printed matters 309 Others 310 Registered Alimail Exp. & Spl. Del 311 Letters 312 Printed matters 313 Others 314 Express & Spl. Del Surface 315 Cons-reg'd) Alimail 316 Others 317 Postcards 318 Printed matters 319 Others 319 Others 310 Ordinary Surface Letters 317 Postcards 318 Printed matters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 319 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surface Letters 310 Ordinary Surfa	Parcels 104 Others 105 Parcels 106 Payores & Spl. Del. Surface 107 Parcels 108 1,469 Parcels 108 1,469 Parcels 109 1,834 Parcels 110 Payores & Spl. Del. Surface 110 Payores & Spl. Del. 110 Payores 111 Payores 111 Payores 111 Payores 111 Payores 111 Payores 111 Payores 111 Payores 111 Payores 112 Payores 114 Payores 115 Payores 114 Payores 115 Payores 116

III. APPLICATION OF STATISTICAL THEORY IN THE DOMAIN OF COST SURVEYS

1. Method for Determination of the Number of Cost Survey Offices

- (1) It is ideal to conduct cost surveys at all post offices in order to attain accuracy of the survey results. However, to carry out cost surveys at all post offices numbering some 1,840 is not advisable from the viewpoint of reduced reliability of data through increased survey error, and from economic viewpoints such as work load, expenses, examinations of survey data obtained etc. Consequently, it is desirable to adopt a sampling survey method on the basis of statistical theory.
- (2) In cost accounting, estimated values are used. For the estimation of total value of the necessary data, firstly expenses, work load, traffic such as mail volume at the cost survey offices are collected. These data are then classified to 6 groups of offices, i.e. A-1, A-2, B, C, D, and E, and summed up by each group. These summed up results are multiplied for extrapolation by the ratio between the number of cost survey offices of a specific group and the number of post offices of the group (population) concerned.

In this estimation, in order to obtain estimated values in respect of variable such as work load, mail volume etc., with a certain level of accuracy, it would be best to design a sampling plan by each item shown in the survey tables. However, this method is neither economical nor practicable.

Therefore, paying attention to the fact taht expenses, work loads and traffic, mail volume, etc., are all closely related to the number of staff, the common indicator may reasonably be represented by the number of staff at each post office.

Accordingly, in the following explanation, the number of staff is thus employed as a common indicator.

- (3) Procedure for the calculation method to decide number of sampled offices
 - a. Calculation for the distribution of staff strength at each post office
 - (a) Preparation of staff strength tables for each class of post office

For each of the classes A-1, A-2, B, C, D and E, a staff strength table is prepared as follows:

Class	Post Office	No. of Employees
В	Green hills	. x
	Markina	x ₂
	Ermita	х3
-	Sta Cruz	X4
L		

(b) Calculation for the distribution

Calculation of distribution of staff strength by post office is conducted for each class. Taking B as an example, the distribution can be expressed as the following equation:

$$\sigma_{\rm B}^2 = \frac{1}{N_{\rm B}} \cdot \Sigma \left(x - E(x) \right)^2 = \frac{1}{N_{\rm B}} \left\{ \Sigma x^2 - \frac{(\Sigma x)^2}{N_{\rm B}} \right\}$$

given that:

 N_B = number of post offices for B class

E(x) = expected value for an average staff strength (x) for a post office

 Σx = Total staff strength of B class

 Σx^2 = Sum total of x squared

Example: When
$$x = \{1, 2, 3\}$$

$$\Sigma x = 1 + 2 + 3 = 6$$

$$(\Sigma x)^2 = (6)^2 = 36$$

$$\Sigma x^2 = 1^2 + 2^2 + 3^2 = 14$$

b. Calculation of required number of samples

(a) Preparation of a calculation table by class

Large scale offices belonging to A-1 (11 offices) and A-2 (16 offices) are all designated as cost survey offices. For other sampled offices to be designated as cost survey offices the number may be obtained through the calculation of distribution, shown in item a. above, in respect of B, C, D, and E.

Using the results of this calculation, the following calculation table by class will be prepared.

Table 1. Calculation Table by Class (except A-1 and A-2)

Class	Number of Offices (Ni)	Composition ratio (Wi)	σi	Wi oi	Staff Strength (xi)
В	39	0.022			
c	83	0.046	'		
D	260	0,143			•
E	1,431	0.789			
Total	$\Sigma Ni = N = 1,813$	1.000	-	ΣWiσi	Σχί

- (b) Employment of the formula for the determination of number of sampled offices
 - Using the calculated values entered in Table 1 (excluding the values for A-1 and A-2), the number of necessary sampled offices (n) for cost survey may be obtained through the following formula according to the method of Neyman's optimum distribution, with a permissible error $d = \epsilon \cdot \overline{x}$ to secure reliable accuracy.

$$n_0 = \frac{t^2 (\Sigma \operatorname{Wi} oi)^2}{(\epsilon \, \bar{x} \,)^2}$$

$$n = \frac{n_0}{1 + \frac{n_0}{N}}$$

Further, number of sampled offices n can be distributed between the classes B, C, D and E, using the following formula:

$$ni = n \times \frac{Wi \sigma i}{\sum Wi \sigma i}$$

The permissible error d does not include A-1 and A-2, and therefore is not for the sum total of the post offices.

Consequently, it is necessary to conduct a calculation through the following method shown in item b) below, when an accurate calculation is made for the whole range of A-1, A-2, B, C, D and E.

b) Calculation method for permissible error ϵ' for the whole range including classes A-1 and A-2

i.
$$\sigma = \frac{1}{N} \sqrt{\sum N_i^2 \cdot \frac{N_i - n_i}{N_i - 1} \cdot \frac{\sigma_i^2}{n_i}}$$

when:

$$N = 1,840$$

(N includes whole range including A-1 and A-2)

$$\sum N^2 i \cdot \frac{Ni - ni}{Ni - 1} \cdot \frac{\sigma i^2}{ni}$$
 signifies the sum total of

$$N^2i = x + \frac{Ni - ni}{Ni - 1} = x + \frac{\sigma^2i}{ni}$$
 calculated for each class of B, C, D and E.

The calculation results are transposed into the following equation:

$$\epsilon^* = \frac{t \sigma}{\overline{x}}$$

t = 1.96 when reliability is 95%.

given that:
$$\overline{x}$$
 is average number of staff $\begin{pmatrix} \frac{N}{\sum x_i} \\ \frac{i}{N} \end{pmatrix}$

for a post office calculated over the whole range post offices (N) including the classes A-1 and A-2.

ii. As all the 27 offices belonging to A-1 and A-2 are included in the calculation, the relation between ε' and ε becomes ε' < ε.
 Accordingly, number of sampled offices n (= Σ ni) calculated with the per-

Accordingly, number of sampled offices in (=2) in) calculated with the permissible error rate ϵ can be decreased, varying the number of sampled offices "ni" by means of trial and error, using the above formula until ϵ ' becomes equal to ϵ (i.e., ϵ ' = ϵ).

c) It is desirable that the number of cost survey offices be a little more than that obtained through the calculation mentioned above. However, from the viewpoint of implementation, it will be realistic to begin with a certain number which will make it possible, at least, to give guidance sufficiently to the cost survey offices concerned rather than the number obtained through the calculation.

(4) Selecting method for cost survey offices

The following method may be considered for the selection of cost survey offices:

- a. In order that the selected survey offices function effectively as master samples, it is necessary to take care that survey offices be expressive of the population from various points of view.
 For this purpose, the population of the post offices may be classified paying attention to such aspects as geographical features (inhabitants, economic strength etc.), scale of post office (staff strength etc.), function of office (distribution etc.), etc. If a selection of cost survey offices is made so that these characteristics of the population can be represented, these sampled offices can be effectively put to use for a specific cost survey analysis etc.
- b. When a list of sampled offices is prepared in respect of (4), a. mentioned above, the necessary number of post offices is selected simply by means of random sampling, systematic sampling method, etc.
- c. However, when there are practical difficulties in designating survey offices, from the viewpoint of survey ability and giving guidances, the following measures can be taken:
- (a) A method in which a little more than the number of survey offices needed according to the formula is selected, and in the course of subsequent tabulation, survey offices where results are not of good in quality are eliminated.
- (b) A method in which offices able to provide reliable survey results are selected deliberately, although this method deviates from the sampling concept. In this method, there will be a possibility that the results of the survey may be biased if the selection of survey offices is not made so that the sampled offices become expressive of the population.
- (c) A method in which if certain sampled offices chosen at random prove inappropriate for some reason, these offices are replaced by other offices of the same class.

(5) Method for re-selection of cost survey offices

- a. The following three methods are available in deciding cost survey offices in cases where annual cost accounting is carried out:
 - 1) A method in which cost surveys are carried out at the same offices every year.

(Completely continuous sampling)

- A method in which cost surveys are carried out at survey offices completely different from offices previously used.
 (Completely independent sampling)
- A method in which some of the survey offices are replaced by newly sampled offices, and at the rest, surveys are continued. (Rotated sampling)
- b. In the cost accounting at the post offices, it will be necessary to make possible a comparison between the cost accounting results of the current year and those of previous years, and an analysis of the differences.

For this purpose, if survey post offices are fixed for a long time, the survey office itself will become skillful in the surveys and the survey results will increase in quality, together with the additional merit of avoiding errors associated with the change of survey offices. However, on the contrary, there is the problem that during a long period, sampled offices may gradually lose their representative characteristics of the population.

To avoid this shortcoming, it will be possible to employ methods in which all the sampled offices are replaced by newly sampled offices after a few years (once in 5 to 7 years), or in which a fixed percentage of survey offices is replaced by newly sampled offices every year (Rotation method).

In order that the cost surveys be firmly rooted at the introduction of the cost accounting system, it will be better to fix cost survey offices for a certain period. After the cost survey has been started along the right lines, it will be appropriate to employ the rotation method from the viewpoints of expenses, giving guidance, preparation, survey results etc.

2. Calculation for the Number of Sampled Items in the Survey for Number of Stamps Affixed

This survey is to ascertain the average number of stamps affixed on mail items. This is an example for an application of sampling theory to the question of how many mail items must be surveyed to obtain a statistically accurate result.

(1) Formula for the determination of the number of samples

Number of samples (n_0) can be obtained through the following formula:

$$n_0 \ge \frac{t^2 \sigma^2}{d^2} = \frac{t^2 c^2}{e^2}$$

$$c = \frac{\sigma}{\overline{x}}$$

$$\sigma^2 = \frac{1}{n-1} \left[\sum x^2 - \frac{(\sum x)^2}{n} \right]$$

provided:

t = a coefficient indicating reliability

In the sampling survey, 95% is used for reliability in general and

t becomes 1.96 under this condition.

σ = Standard deviation for number of stamps affixed (x) on each

mail items

d = Permissible error (pieces)

 $\epsilon = \frac{d}{\overline{x}} = \text{Permissible error rate (%)}$

 $\Sigma x = Total$ number of stamps affixed on mail items surveyed.

 $\vec{x} = \frac{\sum x}{n}$ = Average number of stamps affixed.

(2) Advance information provided by preliminary surveys

Carrying out a small scale preliminary survey for the principal category of mail service, and the results thus obtained, are tabulated as shown in Table 2 below.

Table 2. Preliminary Survey Results for 1st Class Mail Items

Order of mail items surveyed	Number of stamps affixed (x)	Square of number of stamps affixed ()	
1	1	12 = 1	
2	1	} ² =	
3	2	2 ² = 4	
4	1	12 = 1	
5	3	3 ² = 9	
!			
i	2	2 ² = 4	
;	į	l :	
n .	1	12 = 1	
Total n = 60	Σx = 100	$\Sigma x^2 = 189$	

(3) Calculation for number of samples

Number of samples is calculated by applying the preliminary survey results to the following formula:

Example of calculation using data for 1st class:

a.
$$\sigma^2 = \frac{1}{n-1} \left[\sum x^2 - \frac{(\sum x)^2}{n} \right]$$

$$= \frac{1}{60-1} \left\{ 189 - \frac{(100)^2}{60} \right\} = \frac{1}{59} (189 - 166.67)$$

$$= \frac{1}{59} \times 22.33 = 0.38$$

$$\therefore \quad \sigma = \sqrt{\sigma^2} = 0.62$$
b. $\overline{x} = \frac{\sum x}{n} = \frac{100}{60} = 1.67$
c. $n_0 \ge \frac{t^2 c^2}{\epsilon^2} = \frac{t^2 \left(\frac{\sigma}{\overline{x}}\right)^2}{\epsilon^2}$

Under the condition of reliability 95% (t = 1.96) error rate 5% (ϵ = 0.05)

$$n_0 \ge \frac{1.96^2 \times (\frac{0.62}{1.67})^2}{0.05^2} = \frac{3.8416 \times 0.1378}{0.0025} = 211.7$$

d. Accordingly, for the 1st class mail service, conducting surveys on 212 mail items with regard to the number of stamps affixed, a result sufficiently reliable statistically can be obtained.

(4) Summing up of survey results

Calculations mentioned in item (3) above are conducted for primary categories of mail service, and results summed up are shown in Table 3 below:

Table 3

Type of Senice	Number of Samples Needed
Ist class	212
2nd class	415
Express	641
Registered	507
Parcel	797

Note: Figures shown in Table 3 are hypothetical.

(5) Conclusion

According to the figures shown in Table 3 of (4) mentioned above, conducting surveys on items to the extent of 300 to 800 items depending on category of mail service, it is possible to expect fairly reliable survey results. In our trial survey, these figures are bigger than required by the theory mentioned above. It will be better to carry out surveys at several post offices, not limited to one office.

Appendix

RECORDS OF DAILY ACTIVITIES DURING THE STUDY

Sep.	25	Mon.	Arrival in Manila (JL 741), Arrangement of schedule
	26	Tue.	Courtesy call on the Postmaster General (Lunch given by the Postmaster General), Visit to Japanese Embassy and JICA office in Manila
	27	Wed.	Consultation on the study plan for cost accounting with local counterparts (Typhoons and power failures)
	28	Thu.	Explanation of how a cost accounting is carried out Lecture on the organization of the Bureau of Posts, Philippines
	29	Fri.	Continued explanation of how a cost accounting is carried out
	30	Sat.	
Oct.	1	Sun.	
		The state of the s	
	2	Mon.	Lecture on the mail operation of Airmail Distributing Center (ADC) and on the work measurement system to be introduced in the Bureau of Posts
	3	Tue.	Lecture on the budgeting and accounting system in the Bureau of Posts Organization of working groups in the study team composed of 10 counter- parts and appointment of leaders
	4	Wed.	Lecture on the mail operations of Domestic Surface Mail Distribution Center (DSMDC) and Foreign Surface Mail Distribution Center (FSMDC)
	5	Thu.	Observations at the DSMDC, the FSMDC and Makati Commercial Center Post Office (a large scale post office)
	6	Fri.	Visit to the Cardona Post Office (a small scale post office), Visit to San Fancisco del Monte post office (a middle scale post office) was cancelled owing to a breakdown of transport.
	7	Sat.	

Oct.	8	Sun.	
	9	Mon.	Reading of the text of cost accounting and discussion on the cost accounting concept (Typhoons)
	10	Tue.	Continued
	11	Wed.	Continued
	12	Thu.	Continued
	13	Fri.	Continued (Special gathering with group members)
	14	Sat.	
	15	Sun.	
	16	Mon.	Explanation of the method and concept of designing the cost accounting in the postal service
	17	Tue.	Explanation of how to design a cost accounting for specialized post offices like the DSMDC, the FSMDC, and the ADC and the Manila Central post office
	18	Wed.	Continued
	19	Thu.	Determination of the cost items and the type of mail service for cost accounting purposes and appraisal of the assets of the postal service
	20) Fri.	General review of how to design a cost accounting in the postal service
	2	l Sat.	
	2	2 Sun.	
	2	3 Mon.	Preparation of cost accounting forms according to drafted program
	2	4 Tue.	Continued
	2	5 Wed.	Continued

Oct.	26 27	Thu. Wed.	(All government or public offices and private firms were closed owing to typhoon Kading (Signal No. 3).) Review and examination of the study program and preparation of materials
	28	Sat.	
	29	Sun.	
	30	Mon.	Detailed designing of the cost accounting system in the Bureau of Posts (Visit to JICA office)
	31	Tue.	National Holiday
Nov.	1	Wed.	Detailed designing of the cost accounting system in the Bureau of Posts and examination of cost accounting forms prepared
	2	Thu.	Detailed explanation and discussion on the designed system
	3	Fri.	Continued
	4	Sat.	
	5	Sun.	
	. 6	Mon.	Sampling of post offices (approximately 300 post offices throughout the country)
	7	Tue.	[Preparation of survey sheets (mail volume, working hours, expenses,]
	8	- Wed.	premises etc.) for the mail inquiry and examination of the methods to be
	9	Thr.	employed for the surveys at the specialized offices such as DSMDC, FSMDC, ADC and Manila Central Post Office assisted by experienced officers of these 4 specialized offices
	10	Fri.	Printing of circulars, survey manuals, survey sheets and dispatching them to approximately 300 post offices throughout the country Ceremony and party for the 80th Anniversary of the Bureau of Posts, Philippines
	11	Sat	

Nov.	12	Sun.	
	13	Mon.	Preparation of the surveys at specialized offices and holding a meeting of managing staffs for guidance on the mail volume survey at Manila Central Post Office
	14	Tue.	Do at the DSMDC and the FSMDC
	15	Wed.	Execution of the mail volume survey at Manila Central Post Office
	16	Thu.	Do at the DSMDC and the FSMDC Visit to the ADC for explanation of the mail volume survey
	17	Fri.	Execution of mail volume survey at the ADC
	18	Sat.	
	19	Sun.	
	20 21	Mon. Tue.	Preparation and distribution of expense survey sheets for the 4 specialized offices in Metro Manifa (DSMDC, FSMDC, ADC and Manifa Central P.O.)
	22	Wed.	Visiting to Regional Office 3 and to Angeles Post Office (inquiry into data reporting system etc. and carrying out surveys for unit revenue, unit weight/capacity and number of stamps affixed) ——— Stayed in Dagupan City
	23	Thu.	Visit to Dagupan City Post Office (Region I) (experimental accompanied survey for outdoor delivery on motorcycle) Visit to Alaminos Post Office (Region I) (on the spot inquiry) ————————————————————————————————————
	24	Fri.	Travel to Baguio (Region I) Visit to Baguio City Post Office (experimental accompanied survey for outdoor delivery on foot)
			Visit to Trinidad Transit Office in Benguet (on-the-spot inquiry)

Nov.	25	Sat.	Meeting and Discussion with approximately 20 postmasters in Benguet district and a district postal inspector on the purpose and the necessity of cost accounting Sightseeing Stayed in Baguio City
٠	26	Sun.	Back to Manila
	27	Mon.	Assignment of work to each of members Examination and tabulation of results of various surveys
	28	Tue.	Tabulation of survey results and examinations of various points of ques- tions
	29	Wed.	Continued
	30	Thu.	National holiday
Dec.	1	Fri.	Tabulation of survey results
	2	Sat.	
	3	Sun.	
	4	Mon.	Ascertainment of work progress of the members and examination of problems arising Lecture on the sampling theory by Professor Celestina N. Punzalan of Philippine School of Business Administration (PSBA)
	5	Tue.	Tabulation of survey results Lecture on the sampling theory by Professor Celestina N. Punzalan of PSBA
	ć	5 Wed.	Tabulation of survey results
	,	7 Thu.	Continued
	;	8 Fri.	Continued
	•	9 Sat.	

Dec.	10	Sun.	
	11	Mon.	Examination of survey results Preparation of report
	12	Tue.	Visit to Regional Office 4-a, Regional Distribution Center and San Pablo Post Office.
	13	Wed.	Examination of survey results Preparation of report
	14	Thu.	Continued
	15	Fri.	Continued
	16	Sat.	Visit to Regional Office 7 and Cebu Post Office
	17	Sun.	Sightseeing in Cebu Back to Manifa
	18	Mon.	Printing and arrangement of report materials
	19	Tue.	Continued
	20	Wed.	Reporting on study results to the Postmaster General and other executive officials of the Bureau of Posts (Lunch with the Postmaster General and other executives)
	21	Thu.	Courtesy Call on the Postmaster General and Assistant Postmaster General (Lunch given by the Postmaster General)
	22	Fri.	Visit to JICA Office and Japanese Embassy Meeting for reviewing of the study performed with the counterpart members
	23	Sat.	Preparation for leaving
	24	l Cun	Laurina Manila bu 11 - 242 (14.45)

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