# 090537 RELEASED $26060 \pi$ 

The Honorable Leo Ryan House of Representatives


Dear Mr. Ryan:
As you rearested, ve have dereloped Lestimates of mail চolume, Postal Serving expenses, and Eirst-class postage under various subsidies for fisce yanc $-1976,1977$, and 2978, the perion covered by the curctit postal Service labor agreement On Zepteinber 15 , 1975, we briefed a menber of your staif o: cor estime es.

We have forecast three different situations for each yea: \{or subsidies ranging from zerc to $\$ 2.6$ billion (the amoun provided in $\mathrm{H} . \mathrm{R}$. 8603, as oraginally introduced), and projected the price of farst-cisss postage for each situation.

For example, our forecast for thscal year 1978 (see enc. VIII), which assumes a totil of 95.6 O $^{\circ}$ billion pieces of mail, $\neq n$ inflation rate of 8 percent, and annual productivity increases of 0.7 percent, indicates that with subsidies of zero, $\$ 1$ billinn, and $\$ 2.6$ billicn the price of first-class postage would have to be $\$ 0.15, \$ 0.16$, and \$0.11, respectively, to recover expenses. The effect of inflation can be seen oy onsideri ${ }^{\text {re }}$ that in terms of 19\%5 dollars, first-class oostage tor the three subsidy lerels :rould be $\$ 0.14, \ddot{2} . i 2$, and $\$ 0.09$.

We also estimated the recontly ritified National fabor -Agreement's effects on the average cost of compensation and benefits for postal cmployees. The agreement, covering July 1975 to July 1978, provides in part that the employees' base salary would undergo four increases by a specifiea amount during the period and could further increase twice a year with increases in the consumer price lndex. There $1 s$ to be a one-ceni ner-hour increase for each liour-tenths-of-a-point increase over the June 1975 index. Using an infletion rate of 8 percent, we project a $r$ ise in costs (salary, overtime, fringe benefits) from an average of $\$ 14,400$ per employee in Eiscal year 1975 to $\$ 18,700$ in fiscal year 1978. (See enc. IX.)

## METHOOOLOGY

The methodology used to estimate the orice of firstclass postage was tho same as jiscussed on pages 2 and 3 of append.. $x$ I of our report "Forecast of Postal Service SelfSufficiency Potentiail (GGD-75-58, Eeo. 20, 1975). (Your office has been provided with a copy of this report..) fowever, we had to update the equations used to estimace botin expenses and r:venue; these equations are included in enclosure $X$ to this lotrer.

We also modified some of the assumptions used in our previous report to reflect current forecasts of the U.S. economic situation. The following discussior provides the rationale for $r$ assumptions.

## Disposatle personal income

Since aur february 1975 zeport was issuej, estimates of ycowth in disposable personal income have been lowered. Because this growth is a major factor in our volume equation, recent figures were outained from the national economic model develrped by Data Resources Institute Incorporated.

## Inflation

An assumption as to future inflation rates was re:rred, to estimate the cost of the new labor agreement (for example, in computing the amount of cost-of-living increases) and to provide a common basis for workinc with dollars expressed in terms cf different years. Estimates of future inflation have also been revised since our previous report was issued. The figure we selected, 8 percent oer year, is higher than the rates used before.

## Volume

We also developed estimates of the price of first-class postage based on recentiy released postal service forecasts of milil volume. As shown in eraclosure II, these estimates are sower than ours. we had no time to determine the reasons for differences between our volume estimates and those of the postal Service.

## Productivity

In our previous report, we developed estimates assaming increases in productivity of 0.7 percent, 2 percent. and 3 percent to snow the effect of charges in productivity on the price of a first-class stamp. Increases in producetivit" of 0.7 percent represent the most likely case, so our current estimates are based on thai rate.

The enclosures contain copies of the charts w used in briefing your staff, and set forth the possibilities indiacated by our analysis.

Forecasting necessitates making assumptions as to conditions during the forecast period and reactions to these conditions. Or se the assumptions have been accepted, a technique to develop the forec..st can be adopted. The forecasts must be viewed in terms of these assumptions. They do not represent certainties, but possibilities. Consequently, the forecasts set forth what the situation might be, rather than what it will be.

As your office requested, we have not obtained agency comments.


Comptroller General of the United States

Enclosures - 10Mail volume estimates based on--historical data,--disposable personal income, and--number 01 families and individuals.

| FY | $\frac{E}{\text { postal Serv }}$ |
| :---: | :---: |
| 1976 | 86.00 |
| 1977 | 83.70 |
| 1978 | 82.30 |
| The stztements on page 3 of this report |  |
| of this enclosure. |  |

```
Expenso estimates based on
    -historical data,
    --estimated mail volume,
    --producti:.ty of 0.7 percent, and
    --inf.ution of 8 percent.
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    -
    1
    1
    
## EXPENSE ESTIMATES FCR CONTRACT YERRS

| FY | Expense <br> dollars | Current iear's <br> dollars |
| :---: | :---: | :---: |
| 1976 | (Eillions) |  |
| 1977 | $\$ 12.07$ | $\$ 15.04$ |
| 1978 | 11.92 | 13.91 |
|  | 12.05 | 15.18 |

The statements on page $?$ of this report are an integral part of this enclosure.


## COMPARISON OF EXPENSES USING GAO

## ANH POSTAL SERVICE VOLUME ESTIMATES

| Fi | $\frac{\text { Expenses in } 19 \% 5 \text { dollars }}{\text { Dostal Service }}$ | $\frac{6.10}{(b i l 1 \text { ions) }}$ |
| :--- | :---: | :---: |
| 1976 | $\$ 11.70$ | $\$ 12.07$ |
| 1977 | 11.19 | 11.92 |
| 1978 | 11.16 | 12.05 |

The statemenss on page 3 of this report are an integral part of inis enclosure.

## I:1PACT OF VARIOUS SJBSIDY LEVETSS ON

## COST OF FIRST-CLASS STAMP

r'Y 1976


## IMPACT C? VARICUS SUBSIDY LEVELS ON

## COST OF FIRST-CLASS STAMP

FY 1977
$\frac{\text { Cost of first-class stamp }}{\text { Based }}$
postal Jervice Based on raO volume estimates $\frac{\text { volume estimates }}{1977}$

1975 dollars ls/5 dollars dollars (note a) dollars (note a)

| No subsidy | $\$ 0.16$ | $\$ 0.18$ | $\$ 0.14$ | $\$ 0.16$ |
| :--- | ---: | ---: | ---: | ---: |
| \$l billion subsidy | .13 | .16 | .12 | .14 |
| Subsiay in H.R. 8603 <br> $(r o t e ~ b)$ <br> $(\$ 2.6$ billion) |  |  |  |  |

a/Assumes l:aflation rate of 8 percent.
!/As originally intıuduced.
The statements on page $;$ of this report are an integral part of this enclosure.

## IMPZCT OF VARIOUS SUBSIDY LEVELS ON

## COST OF FIRST-CLASS STAMP

FY 1978

|  | Cost of first-class stamp |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\frac{\text { Based on }}{\text { postal Service }}$ |  | Based on GAO volume estimates |  |
|  |  | 1978 |  | 1978 |
|  | 1975 | dollars | 1975 | dollars |
|  | inllars | (note a) | colla:s | (note a) |
| No subsidy | \$3.16 | \$0.20 | \$0.14 | \$0.18 |
| \$1 billion subs: ${ }^{\text {a }}$ | 14 | . 18 | . 12 | . 16 |
| $\begin{aligned} & \text { Subsidy in H.R. } 8603 \\ & (\text { aote b) } \\ & (\$ 2.6 \text { billion) } \end{aligned}$ | . 11. | . 14 | . 09 | . 1 |

a/Assumes inflation rate of 8 percent.
$\underline{\dot{O}} / \mathrm{A}_{2}$ originally introduced.
the scatements on page 3 of this zepo:t are an integral part of this enclosure.

## ESTIMATED I: ${ }^{\prime}$ PAC' $1975-7^{\circ}$ NA:IION $1 \angle$ LABOR AGREEMENT ON

## OSTS FOR EMPLOYEES

Average compensation and benefit costs per employee (note a)

| FY 1975 | $\$ 14,400$ |
| :--- | ---: |
| FY 1976 | 16,100 |
| FY 1977 | 17,100 |
| IY 1978 | 18,700 |

## Notes:

1. All data includes casuals.
2. Assumes increase in Consumer Price Index of 8 percent per year.
3. Assumes FY 1975 overtime levels continies through each of the contract years.
4. Assumes cost-of-living adjustments are effective one pinth after monti on which adjustments are based.
5. Assunes cost-of-living increases within a year are of equal amount.
6. Assumes expenses due to Jasic nay and cost-of-living adjustmer.: a accrue on a monthly oúsis (except for payments against u:funded liability to covil service retirement fund).
a/Includes regular pay, overtime pay, and such benefit co $s$ to Postal Service as
--health benefits,
--life insurance premiums.
--retirerent (including unfunded liability contricutions),
--workman's compensati"… and
--unemplozinent compersation.
The statements on page 3 cf this report are an integral part of this enclosure.
(Comruted value i.. parentheses)
7. Postal jolume
```
V = -150349 + 34.3546 כPI + 5441.82 FAMIND - 35.0ع93 FAMIND
                                    (4.70100) (13.4447) (-11.3582)
            2
        R}=.9978
```

2. Postal expenses

$$
\begin{aligned}
& \log \exp =7.1521+.5326 \log \mathrm{~V}-1.1213 \log \text { prod }+.02558 \text { Econ } \\
& \text { (5.76969) ( }-5.16651) \text { (2.77300) } \\
& 2 \\
& \mathrm{R}=.82561
\end{aligned}
$$

3. Postal revenue

$$
\begin{aligned}
& \text {. } \text { INC }=3691.89+.3559 \mathrm{P}+.11204 \mathrm{~V} \\
& \text { (7.64339) (24.2401) } \\
& 2 \\
& R=.99214
\end{aligned}
$$

NHERE:

$$
\begin{aligned}
& \text { DPI = Disposable personal income in } 1973 \text { constant } \\
& \text { dollars using the gross national product } \\
& \text { (GNP) price deflator. } \\
& \text { Econ }=\text { Dummy variable inserted to correct for } \\
& \text { unusual economic conditions in } 1974 \text { and } 1975 . \\
& \text { exp = Postal Service expenses in 1975 constant } \\
& \text { dollars using Geneial covernment (Federal) } \\
& \text { price deflator. } \\
& \text { FAMIND }=\text { Number of families and unrelated individuals. } \\
& \text { INC = Postal Service operating income in } 1975 \\
& \text { constant dollars usirg GNP pricn deflator. } \\
& \mathrm{P}=\text { Cost of first-class stam; (in } 2975 \text { constant } \\
& \text { dollars using GMP price deflator) lagged } \\
& 1 \text { year. } \\
& \text { rd = Productivity measured in pieces or mail per } \\
& \text { paid man-year. } \\
& \text { ' = Number: of pieces of mail, all classes. }
\end{aligned}
$$

