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 U.S. Geological Survey  
EROS Data Center

# Annual Report Of Data Services

Fiscal Year 1997



Prepared by:

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Sioux Falls, SD 57198



## Section I

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### Products And Services

In fiscal year 1997, the EDC produced and distributed more than \$10.6 million worth of products and services. Of the total, nearly \$5.4 million was in direct sales to outside customers and more than \$2.6 million was in products and services provided through EDC cooperative repay projects, for a "reimbursable" total of \$8 million. The remaining \$2.6 million was for products and services distributed to users within the U.S. Geological Survey. In addition, more than 1.8 million files of digital cartographic data were distributed free of charge via the Internet.

The EDC purchased almost \$1.4 million worth of satellite data products from commercial satellite operators as a brokerage service for other Federal agencies.

Almost 81,000 user inquiries were received at EDC during the year, and over 23,000 orders were filled.

|                             | <u>Items</u>   | <u>Dollars</u>      |
|-----------------------------|----------------|---------------------|
| Photographic Products       | 379,068        | 3,940,091           |
| Digital Products/Processing | 192,385        | 6,605,568           |
| Reference Aids              | 166            | 11,906              |
| Miscellaneous               | <u>18,813</u>  | <u>84,259</u>       |
| <b>Total</b>                | <b>590,432</b> | <b>\$10,641,824</b> |

# EDC Annual Sales Report Fiscal Year 1997 (Dollars)

|                                                 | DIRECT REPAY<br>CUSTOMERS | EDC REPAY<br>PROJECTS  | USGS<br>CUSTOMERS      | TOTAL                  |
|-------------------------------------------------|---------------------------|------------------------|------------------------|------------------------|
| <b>PHOTOGRAPHIC DATA</b>                        |                           |                        |                        |                        |
| AERIAL IMAGES                                   |                           |                        |                        |                        |
| NAPP                                            | \$ 1,541,934.85           | \$ 4,961.00            | \$ 1,547,936.00        | \$ 3,094,831.85        |
| Other                                           | 409,203.38                | 40.00                  | 19,572.00              | 428,815.38             |
| SATELLITE IMAGES                                |                           |                        |                        |                        |
| Landsat MSS                                     | 34,734.00                 | 600.00                 | 1,938.00               | 37,272.00              |
| Landsat TM                                      | 7,120.00                  | 750.00                 | 2,550.00               | 10,420.00              |
| Landsat Derivative Products                     | 45.00                     | 60,553.00              | 0.00                   | 60,598.00              |
| AVHRR                                           | 5,228.00                  | 1,425.00               | 2,212.00               | 8,865.00               |
| Declassified Intelligence Satellite Photography | 56,241.00                 | 1,688.00               | 9,396.00               | 67,325.00              |
| Other                                           | 1,296.00                  | 120.00                 | 0.00                   | 1,416.00               |
| Digital Film Recorder Products                  | 5,880.00                  | 16,800.00              | 11,421.00              | 34,101.00              |
| Other Photographic Data                         | 66,205.24                 | 29,462.00              | 100,780.00             | 196,447.24             |
| <b>TOTAL PHOTOGRAPHIC DATA</b>                  | <b>\$ 2,127,887.47</b>    | <b>\$ 116,399.00</b>   | <b>\$ 1,695,805.00</b> | <b>\$ 3,940,091.47</b> |
| <b>DIGITAL DATA PRODUCTS/PROCESSING</b>         |                           |                        |                        |                        |
| Digital Data Processing                         | \$ 500.00                 | \$ 2,400.00            | \$ 1,300.00            | \$ 4,200.00            |
| Custom Processing Charges                       | 134,068.75                | 817,072.80             | 289,427.85             | 1,240,569.40           |
| Landsat MSS                                     | 212,160.00                | 12,155.00              | 34,555.00              | 258,870.00             |
| Landsat TM                                      | 1,940,013.50              | 568,531.00             | 119,312.50             | 2,627,857.00           |
| Landsat Derivative Products                     | 7,710.00                  | 545,415.00             | 16,370.00              | 569,495.00             |
| AVHRR Images                                    | 241,486.99                | 137,527.90             | 339,092.00             | 718,106.89             |
| Digital Cartographic Data                       |                           |                        |                        |                        |
| 7.5'/15' 30' DEM                                | 261,532.50                | 943.00                 | 19,988.00              | 282,463.50             |
| 250k DEM                                        | 5,168.00                  | 0.00                   | 428.00                 | 5,596.00               |
| 24k & 15' DLG                                   | 65,723.00                 | 301.00                 | 42,150.00              | 108,174.00             |
| 100k DLG                                        | 7,808.00                  | 0.00                   | 140.00                 | 7,948.00               |
| LULC                                            | 3,402.00                  | 0.00                   | 0.00                   | 3,402.00               |
| DOQ                                             | 35,902.00                 | 1,717.00               | 14,903.00              | 52,522.00              |
| DRG                                             | 128,278.50                | 42.00                  | 42,982.00              | 171,302.50             |
| "Large Order" Charges                           | 70,740.00                 | 720.00                 | 12,510.00              | 83,970.00              |
| DAAC Products                                   |                           |                        |                        |                        |
| SIR-C Educational CD's                          | 2,020.00                  | 266,323.95             | 310.00                 | 268,653.95             |
| DAAC Rom Data                                   | 1,663.90                  | 0.00                   | 0.00                   | 1,663.90               |
| DAAC Tape Copies                                | 3,040.00                  | 156,861.00             | 70.00                  | 159,971.00             |
| Other Digital Data                              | 35,058.81                 | 1,536.00               | 4,208.00               | 40,802.81              |
| <b>TOTAL DIGITAL DATA/PRODUCTS/PROCESSING</b>   | <b>\$ 3,156,275.95</b>    | <b>\$ 2,511,645.65</b> | <b>\$ 937,748.35</b>   | <b>\$ 6,605,567.95</b> |
| <b>MISCELLANEOUS</b>                            |                           |                        |                        |                        |
| Reference Aids                                  | \$ 5,005.50               | \$ 0.00                | \$ 6,900.00            | \$ 11,905.50           |
| Other Products and Services                     | 80,601.30                 | 248.50                 | 3,409.50               | 84,259.30              |
| <b>TOTAL MISCELLANEOUS</b>                      | <b>\$ 85,606.80</b>       | <b>\$ 248.50</b>       | <b>\$ 10,309.50</b>    | <b>\$ 96,164.80</b>    |
| <b>GRAND TOTAL</b>                              | <b>\$ 5,369,770.22</b>    | <b>\$ 2,628,193.15</b> | <b>\$ 2,643,860.85</b> | <b>\$10,641,824.22</b> |
| Satellite Data Brokerage Fees                   | \$ 65,004.61              | \$ 1,286.00            | \$ 2,555.22            | \$ 68,845.83           |
| Satellite Data Brokerage Sales                  | \$ 1,301,852.63           | \$ 25,720.00           | \$ 51,104.00           | \$ 1,378,676.63        |

\* Does not include no-charge electronic distribution of data. (see page 5)

# EDC Data Distribution/Services Fiscal Year 1997 (Items)

|                                                 | DIRECT REPAY<br>CUSTOMERS | EDC REPAY<br>PROJECTS | USGS<br>CUSTOMERS | TOTAL          |
|-------------------------------------------------|---------------------------|-----------------------|-------------------|----------------|
| <b>PHOTOGRAPHIC DATA</b>                        |                           |                       |                   |                |
| AERIAL IMAGES                                   |                           |                       |                   |                |
| NAPP                                            | 95,343                    | 308                   | 238,149           | 333,800        |
| Other                                           | 28,278                    | 4                     | 4,056             | 32,338         |
| SATELLITE IMAGES                                |                           |                       |                   |                |
| Landsat MSS                                     | 1,939                     | 4                     | 17                | 1,960          |
| Landsat TM                                      | 44                        | 5                     | 15                | 64             |
| Landsat Derivative Products                     | 1                         | 558                   | 0                 | 559            |
| AVHRR                                           | 161                       | 22                    | 204               | 387            |
| Declassified Intelligence Satellite Photography | 2,980                     | 76                    | 460               | 3,516          |
| Other                                           | 61                        | 5                     | 0                 | 66             |
| Digital Film Recorder Products                  | 47                        | 117                   | 77                | 241            |
| Other Photographic Data                         | <u>1,481</u>              | <u>1,042</u>          | <u>3,614</u>      | <u>6,137</u>   |
| <b>TOTAL PHOTOGRAPHIC DATA</b>                  | <b>130,335</b>            | <b>2,141</b>          | <b>246,592</b>    | <b>379,068</b> |
| <b>DIGITAL DATA PRODUCTS/PROCESSING</b>         |                           |                       |                   |                |
| Digital Data Processing                         | 5                         | 2                     | 2                 | 9              |
| Custom Processing Charges                       | 31                        | 180                   | 181               | 392            |
| Landsat MSS                                     | 1,038                     | 59                    | 151               | 1,248          |
| Landsat TM                                      | 4,608                     | 1,596                 | 238               | 6,442          |
| Landsat Derivative Products                     | 191                       | 15,533                | 180               | 15,904         |
| AVHRR Images                                    | 2,615                     | 3,636                 | 1,794             | 8,045          |
| Digital Cartographic Data                       |                           |                       |                   |                |
| 7.5'/15' 30' DEM                                | 96,703                    | 130                   | 3,048             | 99,881         |
| 250k DEM                                        | 4,154                     | 0                     | 428               | 4,582          |
| 24k & 15' DLG                                   | 10,764                    | 43                    | 7,451             | 18,258         |
| 100k DLG                                        | 3,115                     | 0                     | 20                | 3,135          |
| LULC                                            | 486                       | 0                     | 0                 | 486            |
| DOQ                                             | 4,969                     | 235                   | 1,880             | 7,084          |
| DRG                                             | 3,909                     | 1                     | 1,327             | 5,237          |
| "Large Order" Charges                           | 788                       | 8                     | 143               | 939            |
| DAAC Products                                   |                           |                       |                   |                |
| SIR-C Educational CD's                          | 28                        | 17,277                | 4                 | 17,309         |
| DAAC Rom Data                                   | 54                        | 0                     | 0                 | 54             |
| DAAC Tape Copies                                | 51                        | 3,139                 | 1                 | 3,191          |
| Other Digital Data                              | <u>155</u>                | <u>9</u>              | <u>25</u>         | <u>189</u>     |
| <b>TOTAL DIGITAL DATA/PRODUCTS/PROCESSING</b>   | <b>133,664</b>            | <b>41,848</b>         | <b>16,873</b>     | <b>192,385</b> |
| <b>MISCELLANEOUS</b>                            |                           |                       |                   |                |
| Reference Aids                                  | 44                        | 0                     | 122               | 166            |
| Other Products and Services                     | <u>18,142</u>             | <u>49</u>             | <u>622</u>        | <u>18,813</u>  |
| <b>TOTAL MISCELLANEOUS</b>                      | <b>18,186</b>             | <b>49</b>             | <b>744</b>        | <b>18,979</b>  |
| <b>GRAND TOTAL</b>                              | <b>282,185</b>            | <b>44,038</b>         | <b>264,209</b>    | <b>590,432</b> |
| Satellite Data Brokerage Fees                   | N/A                       | N/A                   | N/A               | N/A            |
| Satellite Data Brokerage Sales                  | 628                       | 17                    | 40                | 685            |

\* Does not include no-charge electronic distribution of data. (see page 5)

# Customer Profile

## EDC Digital Data Products & Processing

### Fiscal Year 1997

#### Digital Data Products \*

| CUSTOMER CATEGORY            | ITEMS          | DOLLARS               |
|------------------------------|----------------|-----------------------|
| USGS                         | 58,356         | \$2,339,091.35        |
| OTHER FEDERAL                | <u>19,299</u>  | <u>892,401.99</u>     |
| <b>TOTAL FED. GOVERNMENT</b> | <b>77,655</b>  | <b>\$3,231,493.34</b> |
| STATE/LOCAL GOVERNMENT       | 6,435          | 69,457.00             |
| ACADEMIA                     | 6,559          | 333,443.50            |
| INDUSTRY                     | 85,440         | 743,769.81            |
| INDIVIDUALS                  | 13,506         | 254,420.40            |
| NON-U.S.                     | <u>2,389</u>   | <u>728,214.50</u>     |
| <b>TOTAL</b>                 | <b>191,984</b> | <b>\$5,360,798.55</b> |

\* Does not include no-charge electronic distribution of data. (see page 5)

#### Digital Data Processing \*

| CUSTOMER CATEGORY            | ITEMS      | DOLLARS               |
|------------------------------|------------|-----------------------|
| USGS                         | 365        | \$1,110,200.65        |
| OTHER FEDERAL                | 33         | 127,801.71            |
| <b>TOTAL FED. GOVERNMENT</b> | <b>398</b> | <b>\$1,238,002.36</b> |
| STATE/LOCAL GOVERNMENT       | 0          | 0                     |
| ACADEMIA                     | 0          | 0                     |
| INDUSTRY                     | 3          | 6,767.04              |
| INDIVIDUALS                  | 0          | 0                     |
| NON-U.S.                     | <u>0</u>   | <u>0</u>              |
| <b>TOTAL</b>                 | <b>401</b> | <b>\$1,244,769.40</b> |

\* Image processing or data capture tasks, such as, image registration and mosaicking, vector data capture, data base development, and image manipulation for greenness monitoring.

# Customer Profile

## "No-Charge" Digital Cartographic Electronic File Delivery FY 1997

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| CUSTOMER<br>CATEGORY | FILES TRANSFERRED |                  |                 |               |               |                 | TOTAL<br>FILES   |
|----------------------|-------------------|------------------|-----------------|---------------|---------------|-----------------|------------------|
|                      | 1:2M<br>DLG       | 1:100K<br>DLG    | 1-Degree<br>DEM | LULC          | SDTS<br>DLG   | SDTS<br>24k DLG |                  |
| FEDERAL GOV'T        | 1,272             | 211,810          | 19,076          | 4,515         | 1,451         | 131,795         | 369,919          |
| ACADEMIA             | 2,115             | 145,982          | 45,400          | 11,199        | 8,354         | 18,059          | 231,109          |
| INDUSTRY             | 5,105             | 300,039          | 81,380          | 16,932        | 20,685        | 80,401          | 504,542          |
| INDIVIDUALS          | 61                | 14,476           | 2,547           | 934           | 408           | 729             | 19,155           |
| NON-U.S.             | 1,125             | 20,331           | 32,866          | 1,021         | 1,815         | 889             | 58,047           |
| OTHER                | 6,628             | 409,011          | 110,087         | 20,142        | 19,949        | 101,842         | 667,659          |
| <b>TOTAL</b>         | <b>16,306</b>     | <b>1,101,649</b> | <b>291,356</b>  | <b>54,743</b> | <b>52,662</b> | <b>333,715</b>  | <b>1,850,431</b> |

**Note:** These digital cartographic data were provided free of charge to customers using the Internet.

**Customer Profile**  
**EDC Photographic Products**  
**Fiscal Year 1997**

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| <b>CUSTOMER CATEGORY</b>     | <b>ITEMS</b>   | <b>DOLLARS</b>        |
|------------------------------|----------------|-----------------------|
| USGS                         | 248,733        | \$1,812,204.00        |
| OTHER FEDERAL                | <u>42,904</u>  | <u>495,373.60</u>     |
| <b>TOTAL FED. GOVERNMENT</b> | <b>291,637</b> | <b>\$2,307,577.60</b> |
| STATE/LOCAL GOVERNMENT       | 5,404          | 85,154.50             |
| ACADEMIA                     | 8,820          | 107,889.50            |
| INDUSTRY                     | 54,102         | 1,081,642.87          |
| INDIVIDUALS                  | 17,137         | 324,207.00            |
| NON-U.S.                     | <u>1,968</u>   | <u>33,620.00</u>      |
| <b>TOTAL</b>                 | <b>379,068</b> | <b>\$3,940,091.47</b> |

**Product Profile**  
**EDC Photographic Products**  
**Fiscal Year 1997**

| <b>BLACK-AND-WHITE PRODUCTS</b> |                |                       |
|---------------------------------|----------------|-----------------------|
| <b>PRODUCT CATEGORY</b>         | <b>ITEMS</b>   | <b>DOLLARS</b>        |
| 10" Paper                       | 117,925        | \$ 605,132.40         |
| 10" Film                        | 65,501         | 395,063.62            |
| 10" Diapositives Paper          | 87,714         | 820,165.00            |
| 10" Diapositives Film           | 11,041         | 121,295.00            |
| 20" Paper                       | 5,327          | 121,270.60            |
| 40" Paper                       | 5,344          | 241,917.80            |
| Other                           | <u>7,473</u>   | <u>124,280.00</u>     |
| <b>TOTAL</b>                    | <b>300,325</b> | <b>\$2,429,124.42</b> |
| <b>COLOR PRODUCTS</b>           |                |                       |
| <b>PRODUCT CATEGORY</b>         | <b>ITEMS</b>   | <b>DOLLARS</b>        |
| 10" Paper                       | 18,197         | \$ 284,218.10         |
| 10" Film                        | 14,969         | 291,233.28            |
| 10" Diapositives Paper          | 1,763          | 14,104.00             |
| 10" Diapositives Film           | 15,117         | 181,620.00            |
| 20" Paper                       | 2,514          | 126,959.95            |
| 40" Paper                       | 4,207          | 320,989.00            |
| Other                           | <u>21,976</u>  | <u>291,842.72</u>     |
| <b>TOTAL</b>                    | <b>78,743</b>  | <b>\$1,510,967.05</b> |
| <b>GRAND TOTAL PRODUCTS</b>     | <b>379,068</b> | <b>\$3,940,091.47</b> |

# National Aerial Photography Program (NAPP) Annual Activity Report 1997

| ACTIVITY                                         | FY 96               | FY 97               |
|--------------------------------------------------|---------------------|---------------------|
| <b>NUMBER OF FRAMES RECEIVED BY EDC</b>          |                     |                     |
| Black and White                                  | 45,487              | 64,009              |
| Color Infrared                                   | <u>35,134</u>       | <u>18,182</u>       |
| <b>TOTAL</b>                                     | <b>80,621</b>       | <b>82,191</b>       |
| <b>NUMBER OF MASTER FRAMES DUPLICATED BY EDC</b> |                     |                     |
| Black and White                                  | 59,919              | 40,158              |
| Color Infrared                                   | <u>35,511</u>       | <u>21,885</u>       |
| <b>TOTAL</b>                                     | <b>95,030</b>       | <b>62,043</b>       |
| <b>NUMBER OF FRAMES SOLD</b>                     |                     |                     |
| Black and White Film/Paper                       | 250,566             | 262,177             |
| Color Infrared Film/Paper                        | 78,887              | 67,346              |
| Other                                            | <u>3</u>            | <u>2</u>            |
| <b>TOTAL</b>                                     | <b>329,456</b>      | <b>329,525</b>      |
| <b>* NAPP PARTICIPANT PURCHASES</b>              |                     |                     |
| Bureau of Land Management                        | 4,695               | 110,182             |
| Fish and Wildlife Service                        | 372                 | 7,383               |
| Forest Service                                   | 57,579              | 48,393              |
| National Park Service                            | 25                  | 0                   |
| Soil Conservation Service                        | 809                 | 24,875              |
| State of Florida                                 | 456                 | 0                   |
| State of Georgia                                 | 1,294               | 84                  |
| State of Illinois                                | 0                   | 0                   |
| State of Maine                                   | 3,592               | 5,920               |
| State of Maryland                                | 0                   | 0                   |
| State of Massachusetts                           | 0                   | 0                   |
| State of Minnesota                               | 635                 | 834                 |
| State of Mississippi                             | 99                  | 0                   |
| State of New Jersey                              | 16,728              | 1,764               |
| State of New York                                | 3,845               | 1,680               |
| State of Vermont                                 | 30                  | 0                   |
| State of Wisconsin                               | 0                   | 0                   |
| Tennessee Valley Authority                       | 1,799               | 1,780               |
| U.S. Geological Survey                           | <u>924,128</u>      | <u>1,278,807</u>    |
| <b>TOTAL</b>                                     | <b>\$ 1,016,086</b> | <b>\$ 1,481,702</b> |
| <b>PURCHASES BY ALL OTHERS</b>                   | <b>\$ 1,983,213</b> | <b>\$ 1,613,130</b> |
| <b>REVENUE FROM FRAMES SOLD</b>                  |                     |                     |
| Black and White Film                             | 880,774             | 320,035             |
| Black and White Paper                            | 826,849             | 754,289             |
| Black and White Diapositives Film                | 165,075             | 913,475             |
| Black and White Diapositives Paper               | 47,031              | 25,905              |
| Color Infrared Film                              | 538,230             | 399,947             |
| Color Infrared Paper                             | 352,520             | 487,479             |
| Color Infrared Diapositives Film                 | 149,196             | 181,620             |
| Color Infrared Diapositives Paper                | <u>39,624</u>       | <u>14,104</u>       |
| <b>TOTAL</b>                                     | <b>\$ 2,999,299</b> | <b>\$ 3,096,854</b> |

\* May include State-authorized participants that are not government agencies.

## FY97 Photographic Laboratory Workload

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| Photographic Laboratory                         | Total Items Processed |
|-------------------------------------------------|-----------------------|
| Landsat Images                                  | 2,015                 |
| Other Satellite Images                          | 3,598                 |
| Declassified Intelligence Satellite Photography | 3,536                 |
| Diapositives                                    | 178,099               |
| Aerial Photos                                   | 136,398               |
| Custom Products                                 | 6,524                 |
| Microfilm                                       | 209                   |
| Miscellaneous                                   | 1,316                 |
| * NAPP Duping                                   | 62,043                |
| Laminating                                      | 58                    |
| * Passport/Photo ID                             | 0                     |
| Process/Mount Film                              | 2                     |

\* National Aerial Photography Program film duplicated for archival purposes.

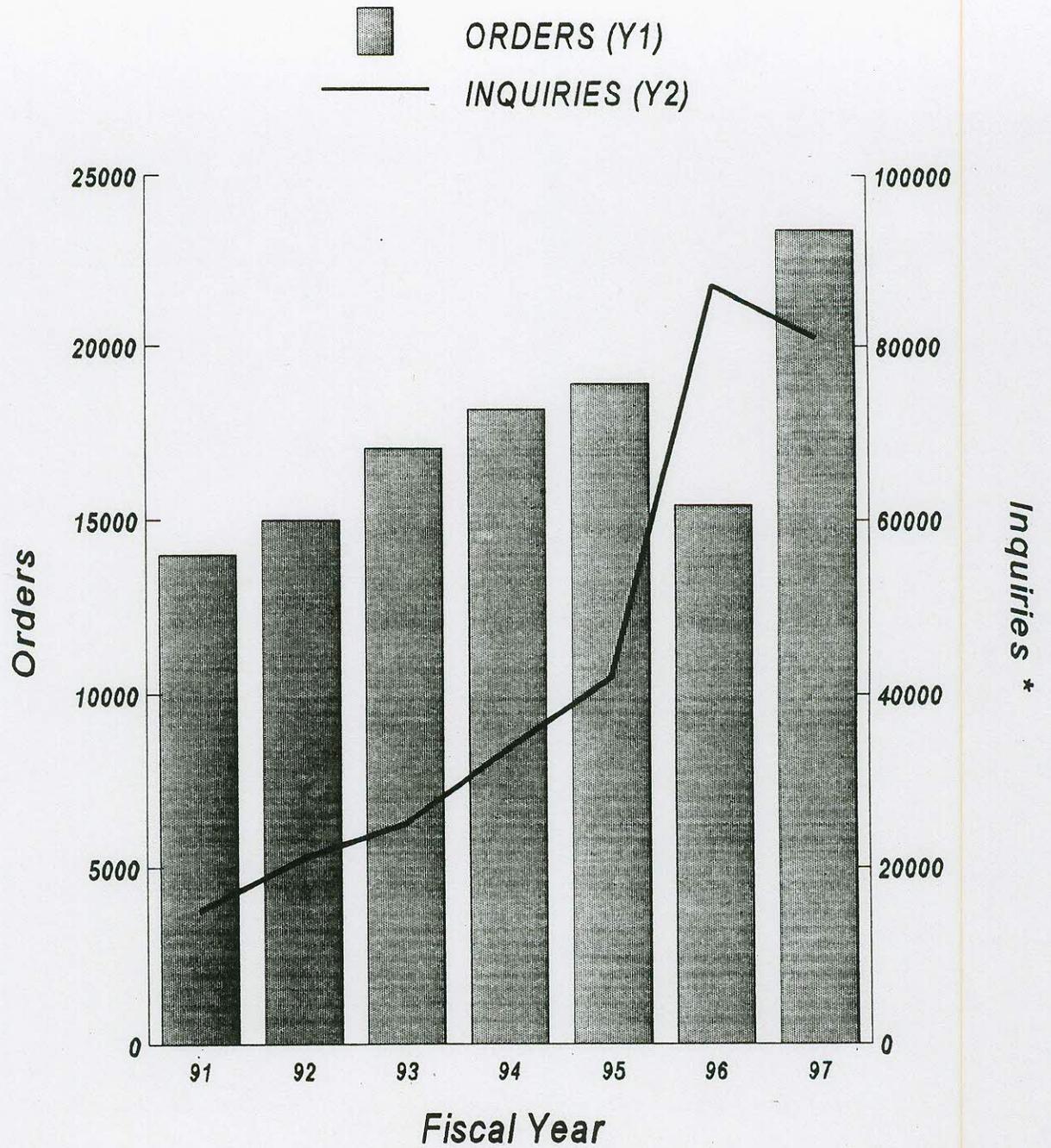
## Section II

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### Customer Services Information

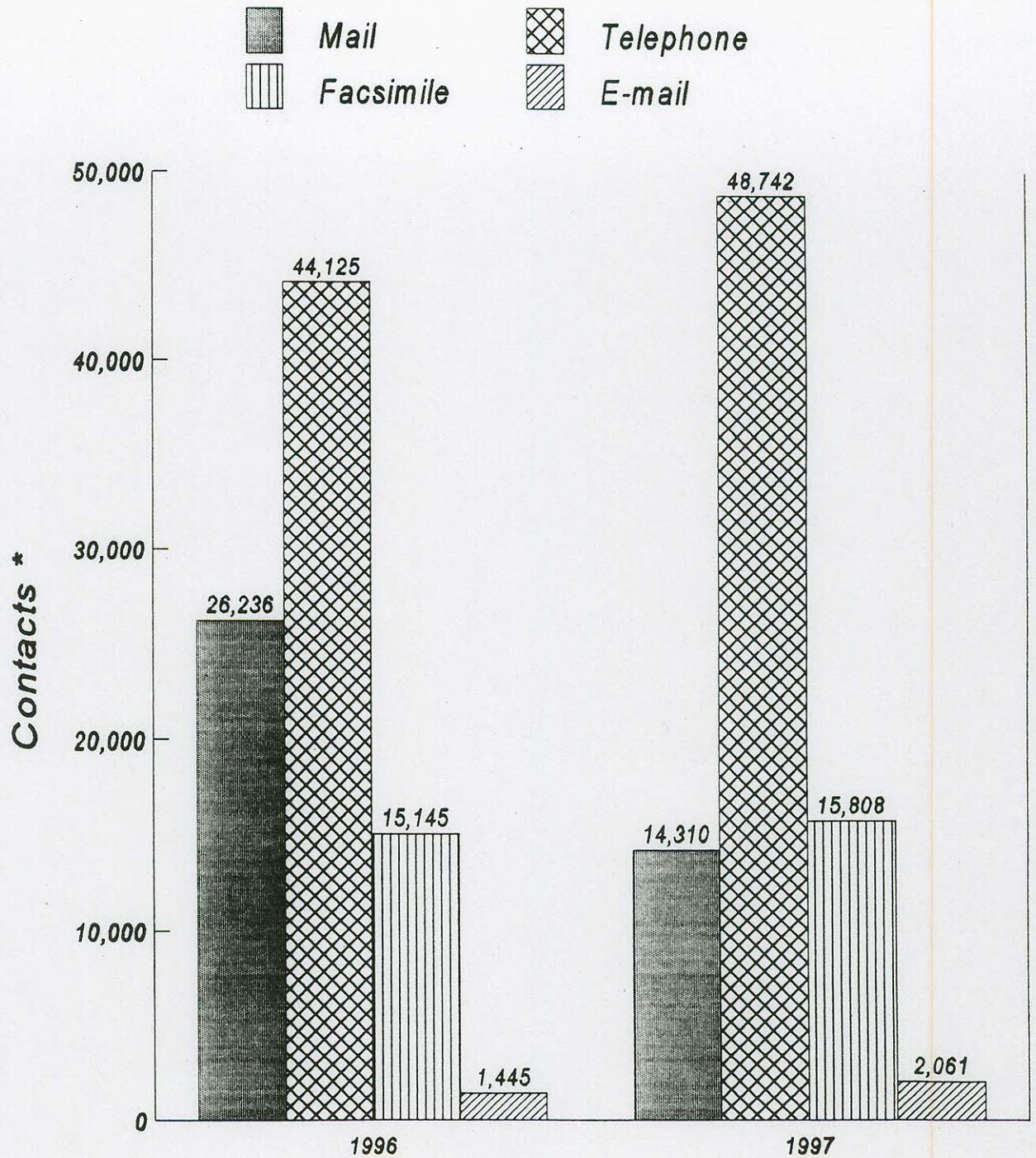
This section includes information on customer ordering and inquiry activities by the EDC.

# EDC Customer Orders and Inquiries for Remotely Sensed and Digital Cartographic Products



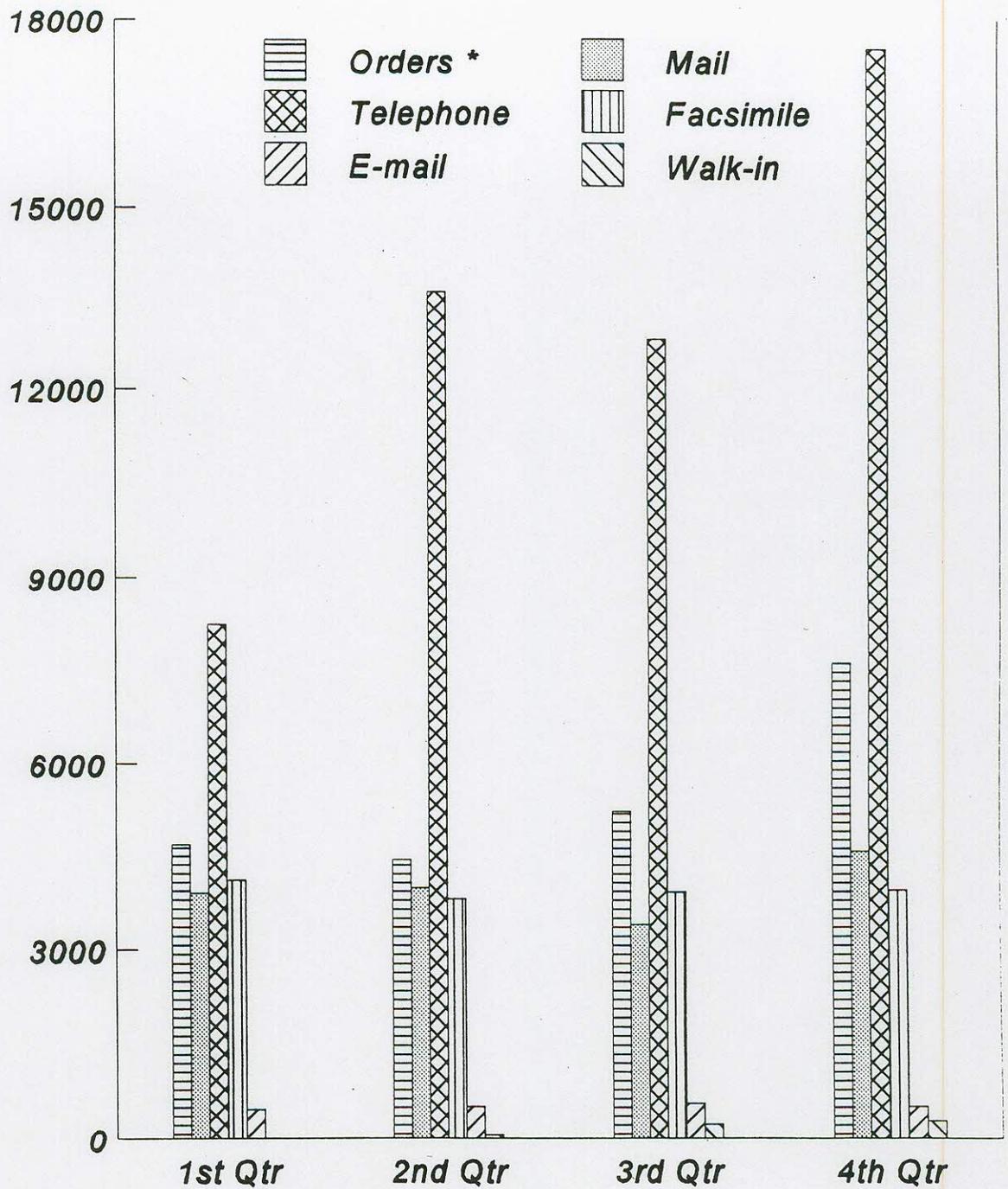
\* Inquiries include mail, telephone, facsimile, and e-mail, and excludes GLIS inquiries.

# EDC Customer Contacts for Remotely Sensed and Digital Cartographic Products



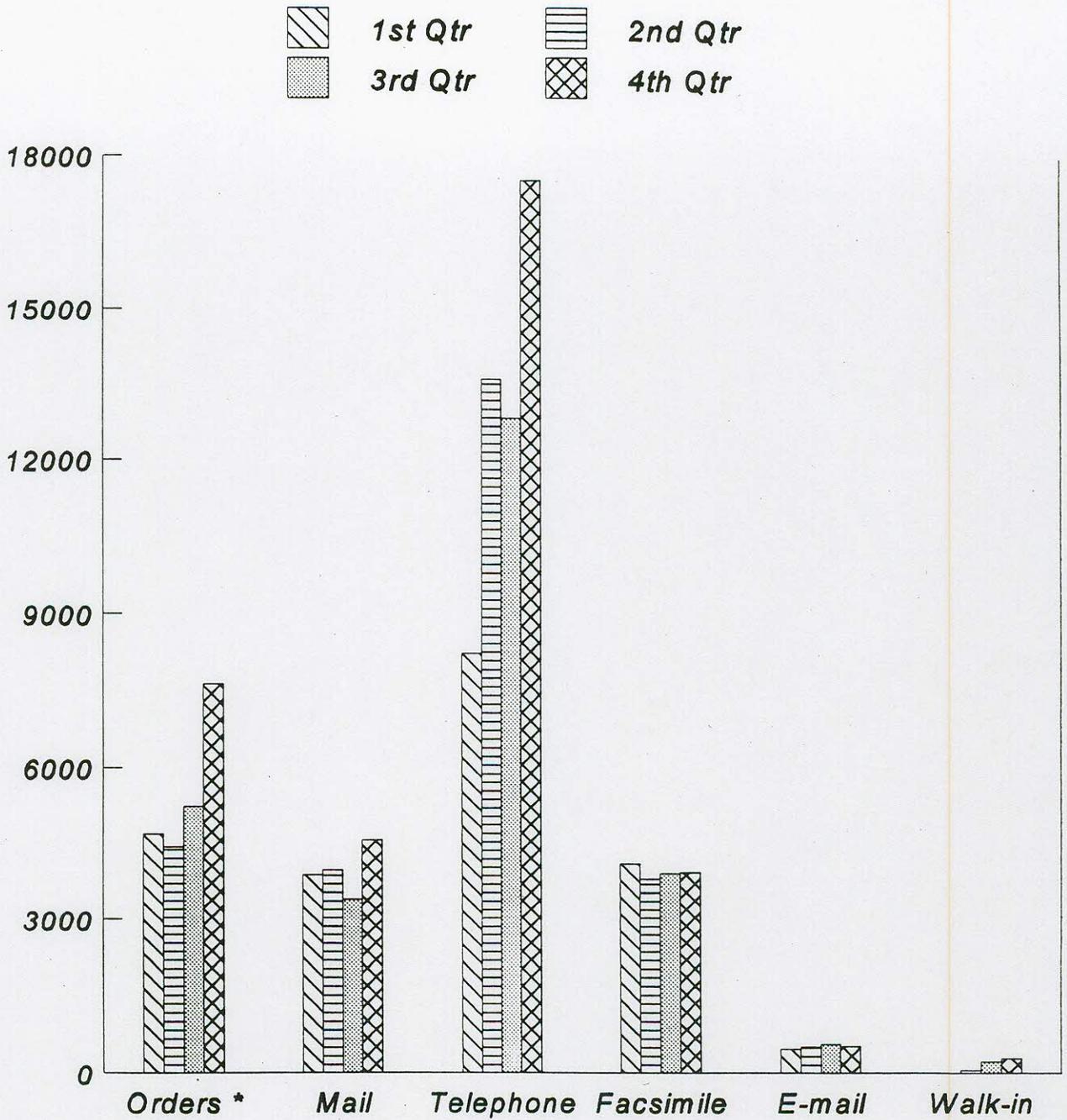
\* Contacts include mail, telephone, facsimile and e-mail, and excludes GLIS inquiries.

## EDC Customer Service Order / Inquiry Activities Quarterly - FY 1997



\* Orders were received through a variety of methods - - mail, telephone calls, e-mail, facsimilie and GLIS.

## EDC Customer Service Order / Inquiry Activities Quarterly - FY 1997

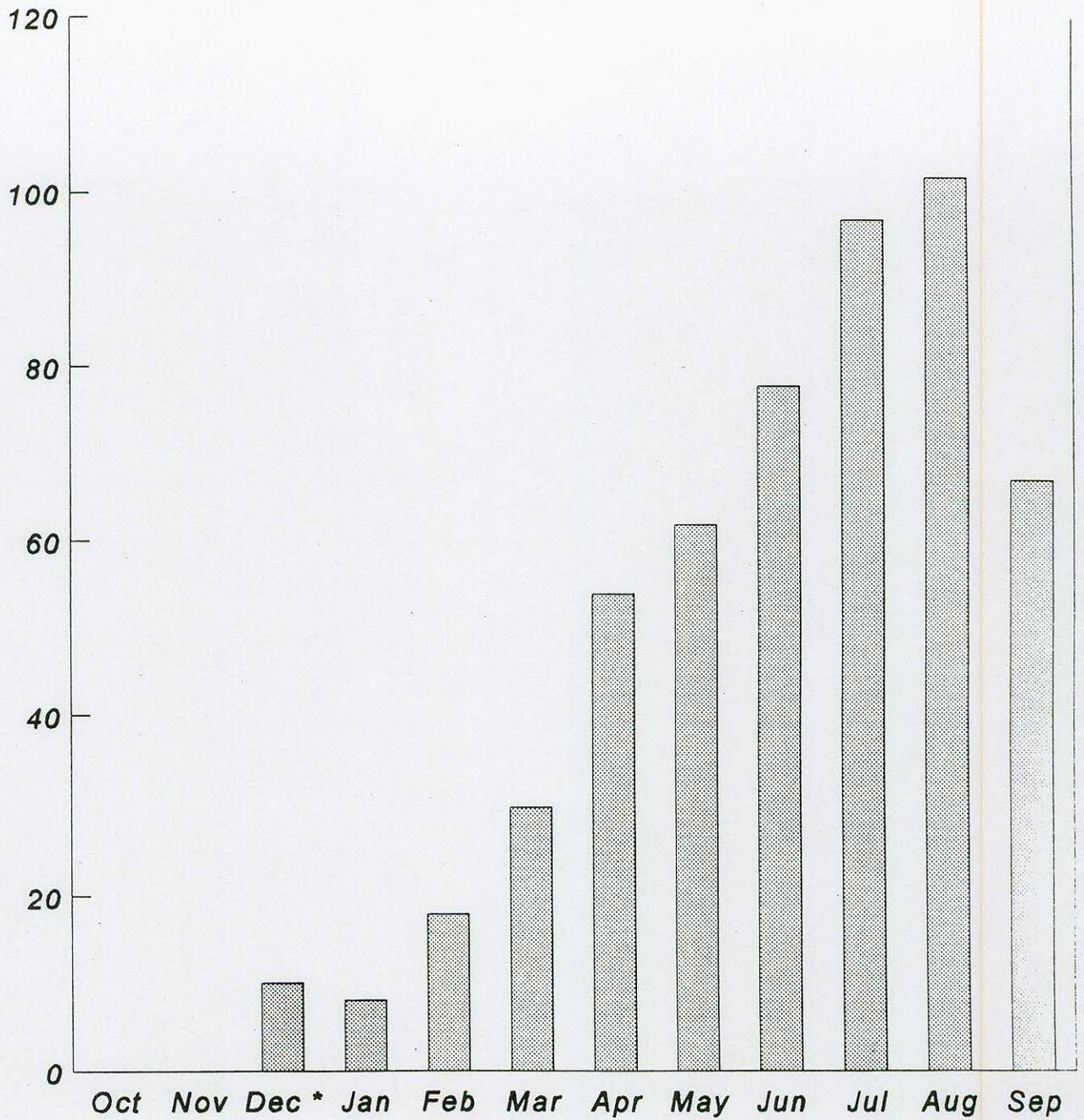


\* Orders were received through a variety of methods - - mail, telephone calls, e-mail, facsimile and GLIS.

## EDC Scientific & Technical Browse Area Walk-in Visitors - FY 1997

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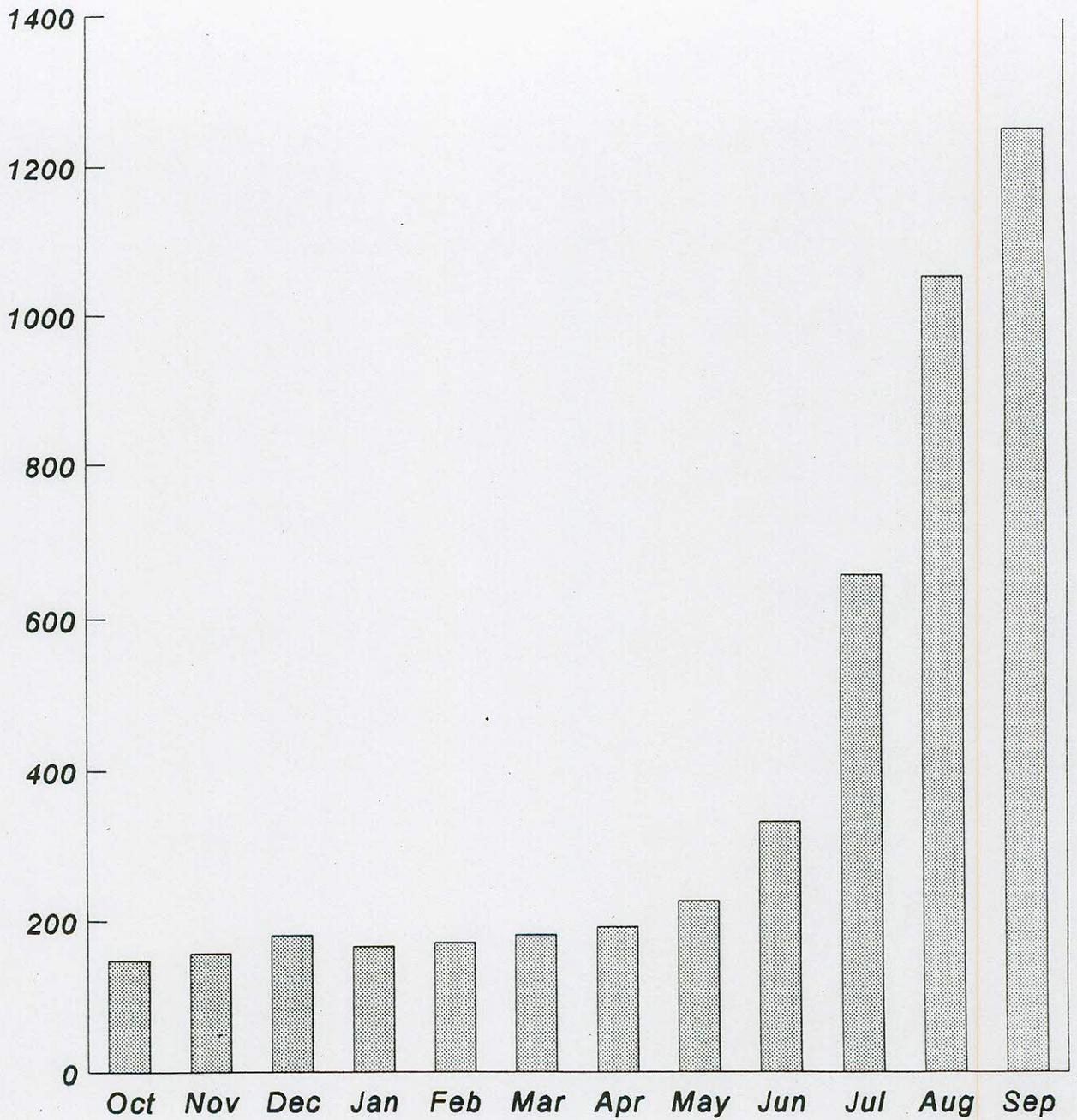


\* Technical Browse Area staffed on a full-time basis since December 15, 1996.

# EDC GLIS Orders FY 1997

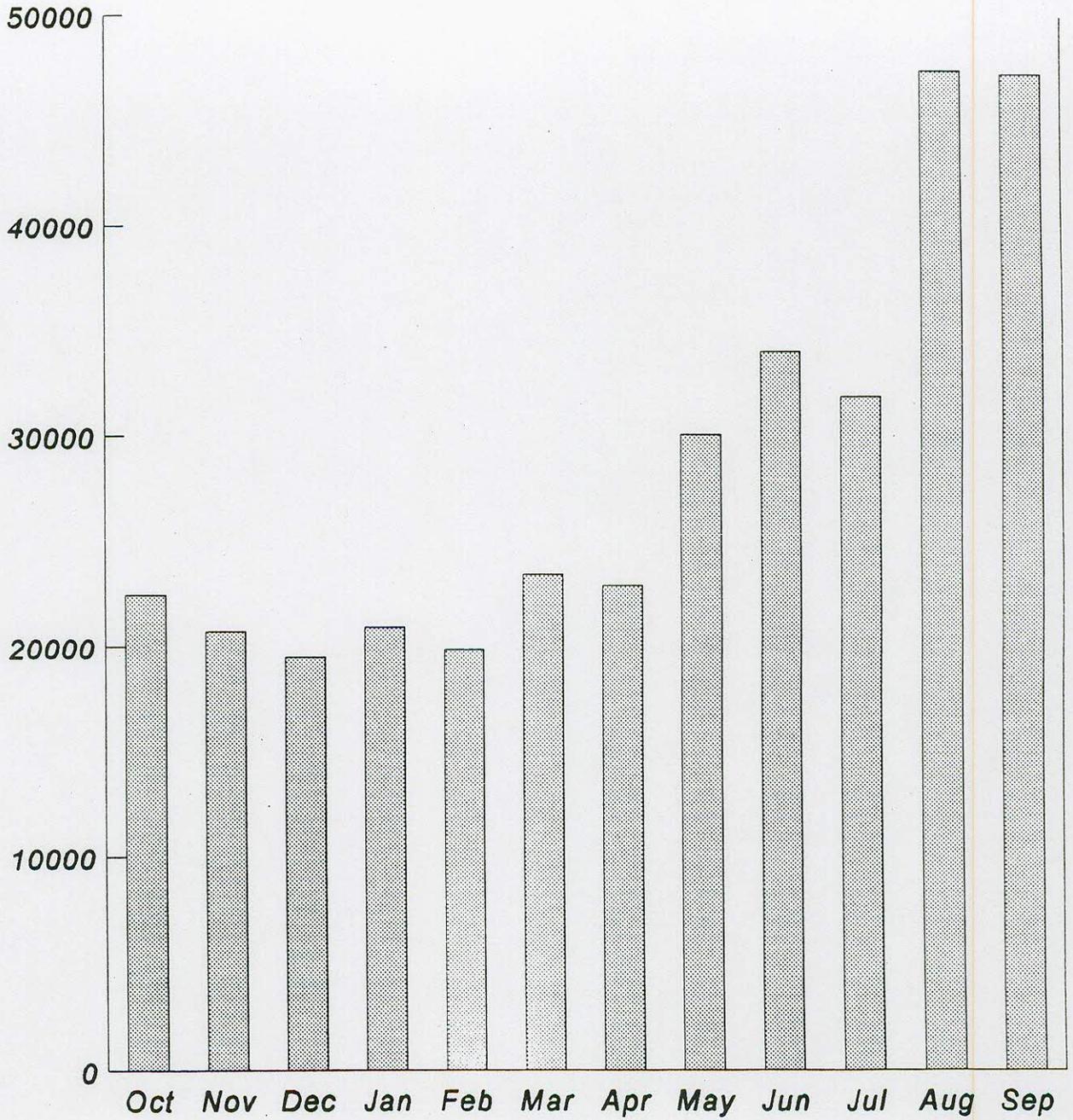
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# EDC GLIS Searches Initiated FY 1997

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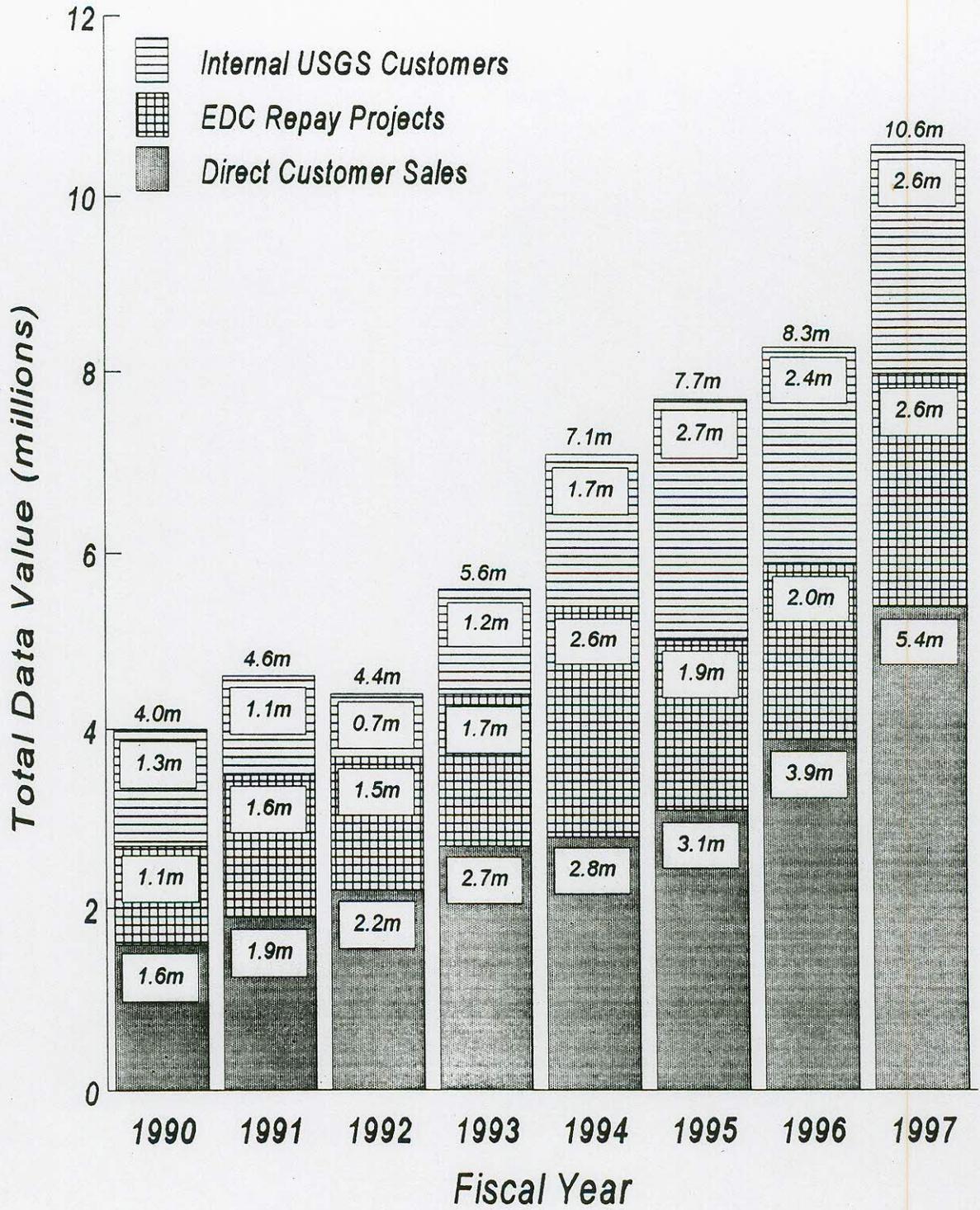
## Section III

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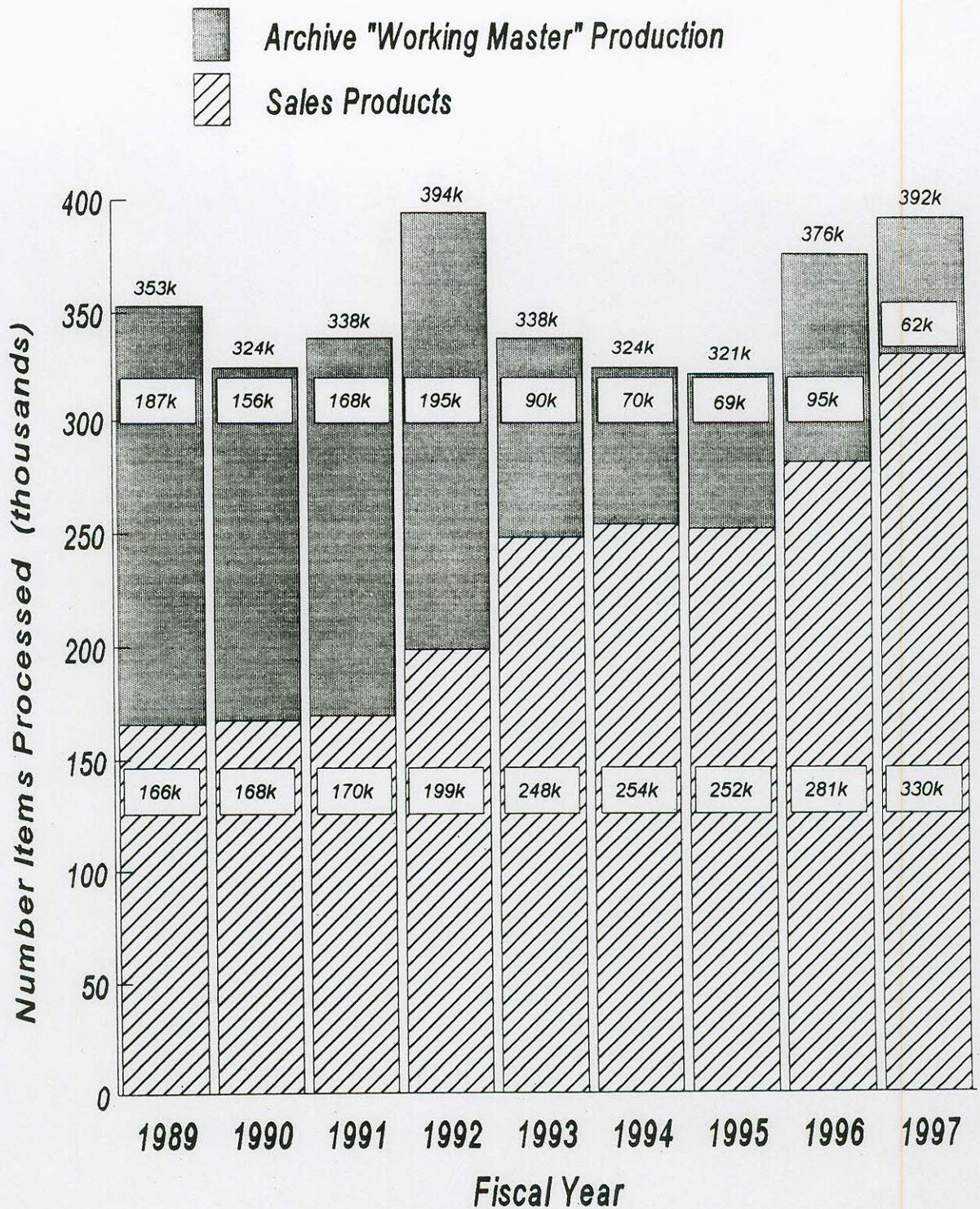
### Historical Information

This section includes information on data produced and distributed by the EDC.

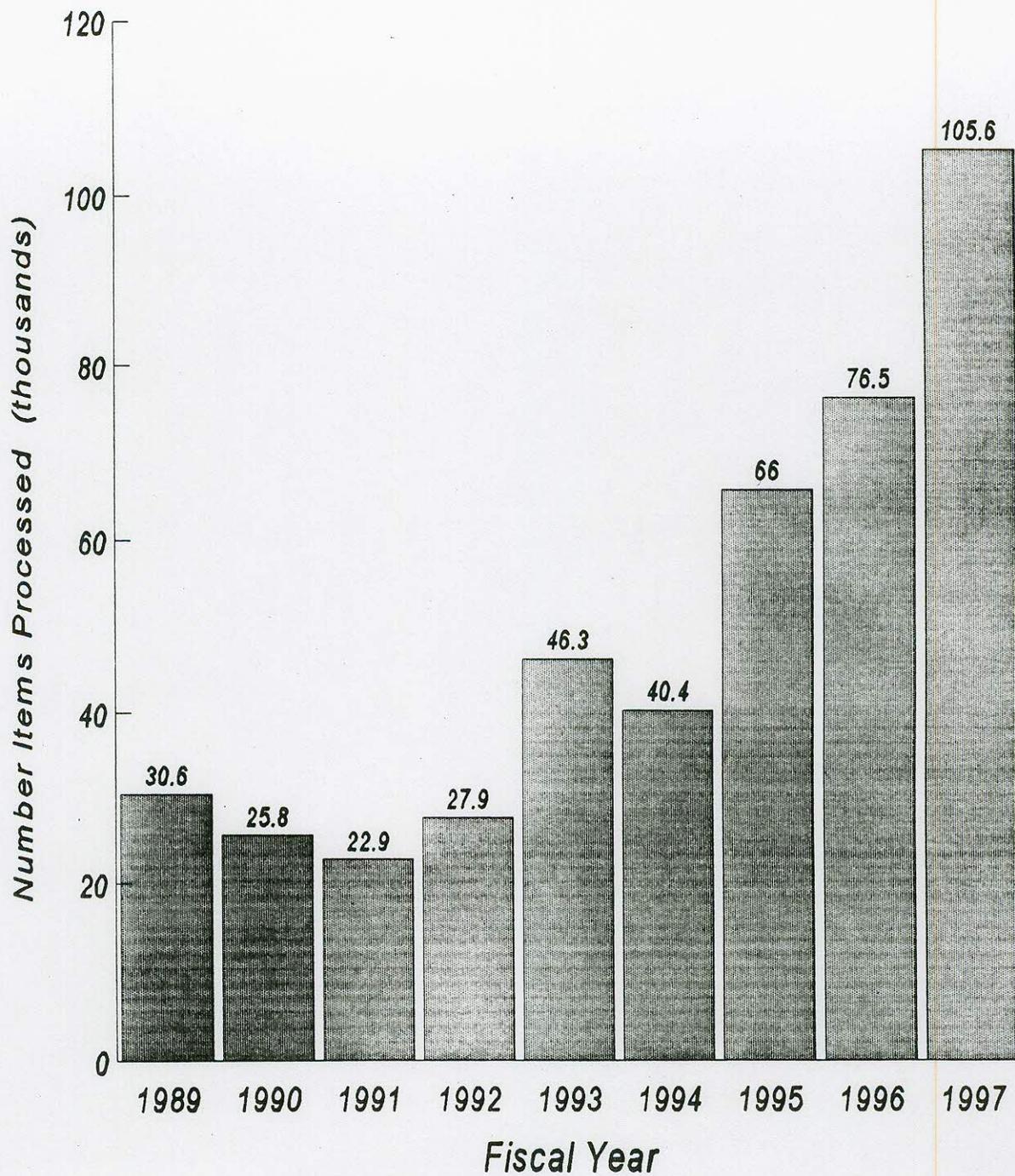
# EDC Total Product Sales



# EDC Photographic Laboratory Workload

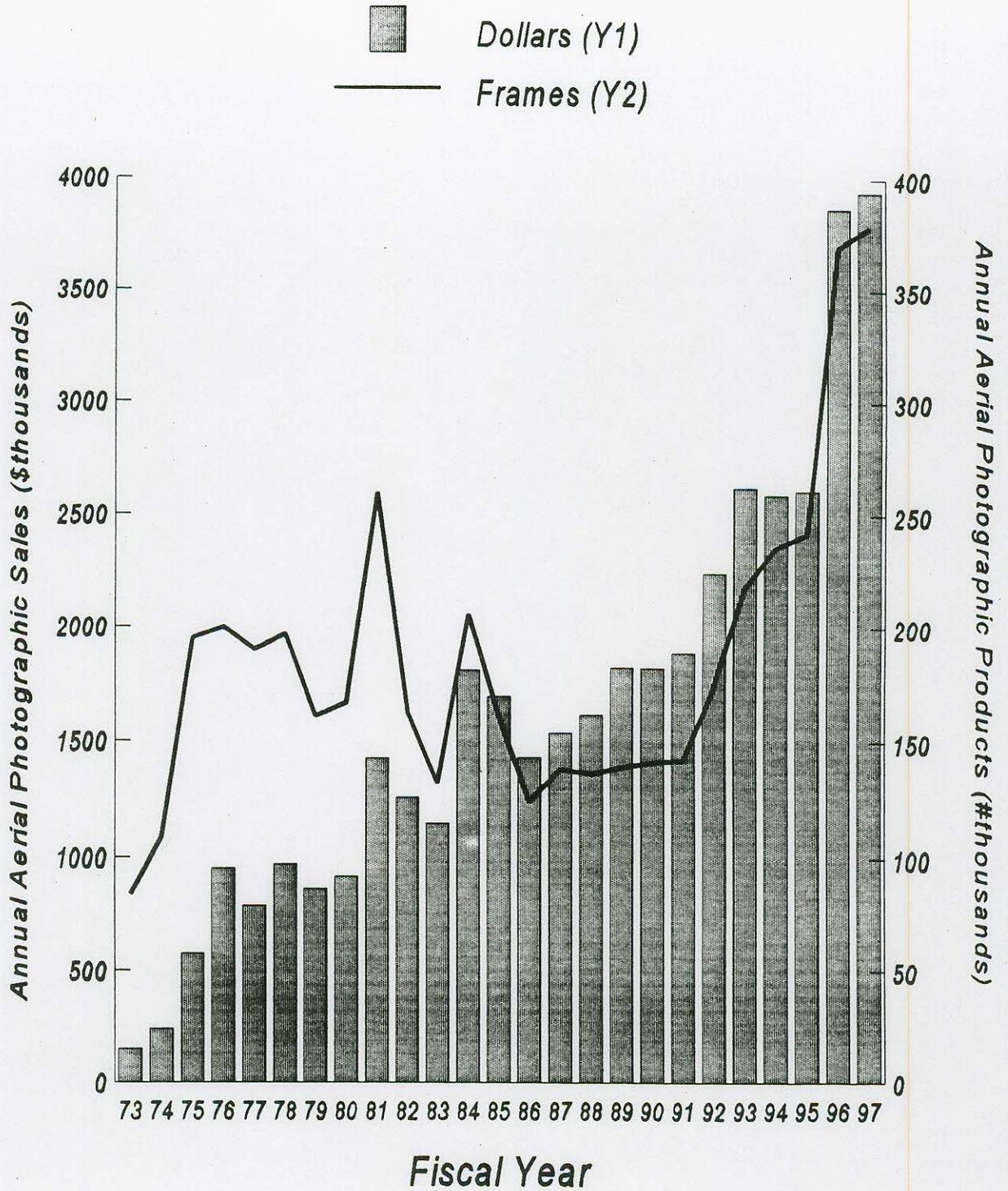


## EDC Film Diapositive Workload

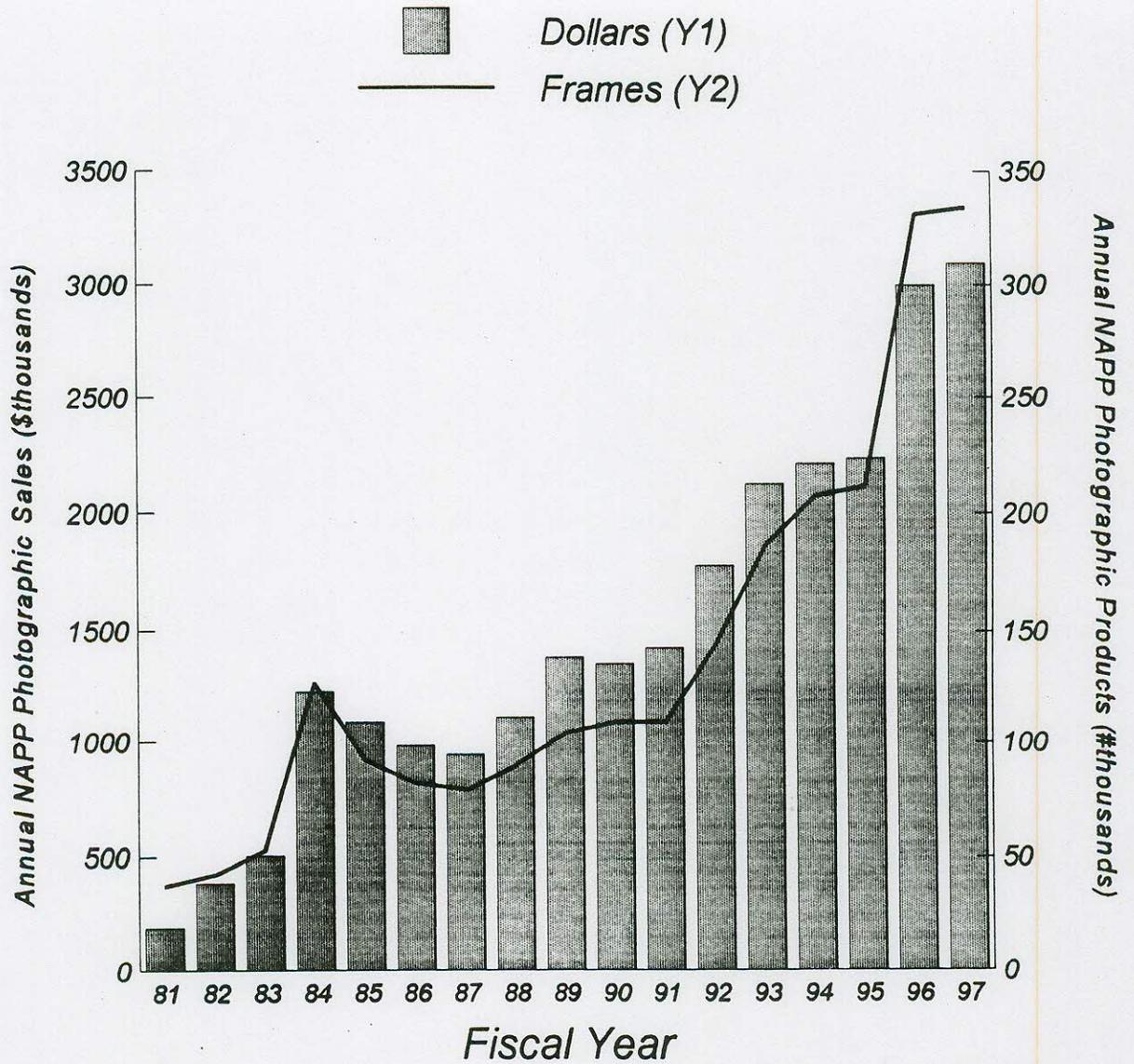


\* Primarily for USGS Mapping Centers, for use in map production.

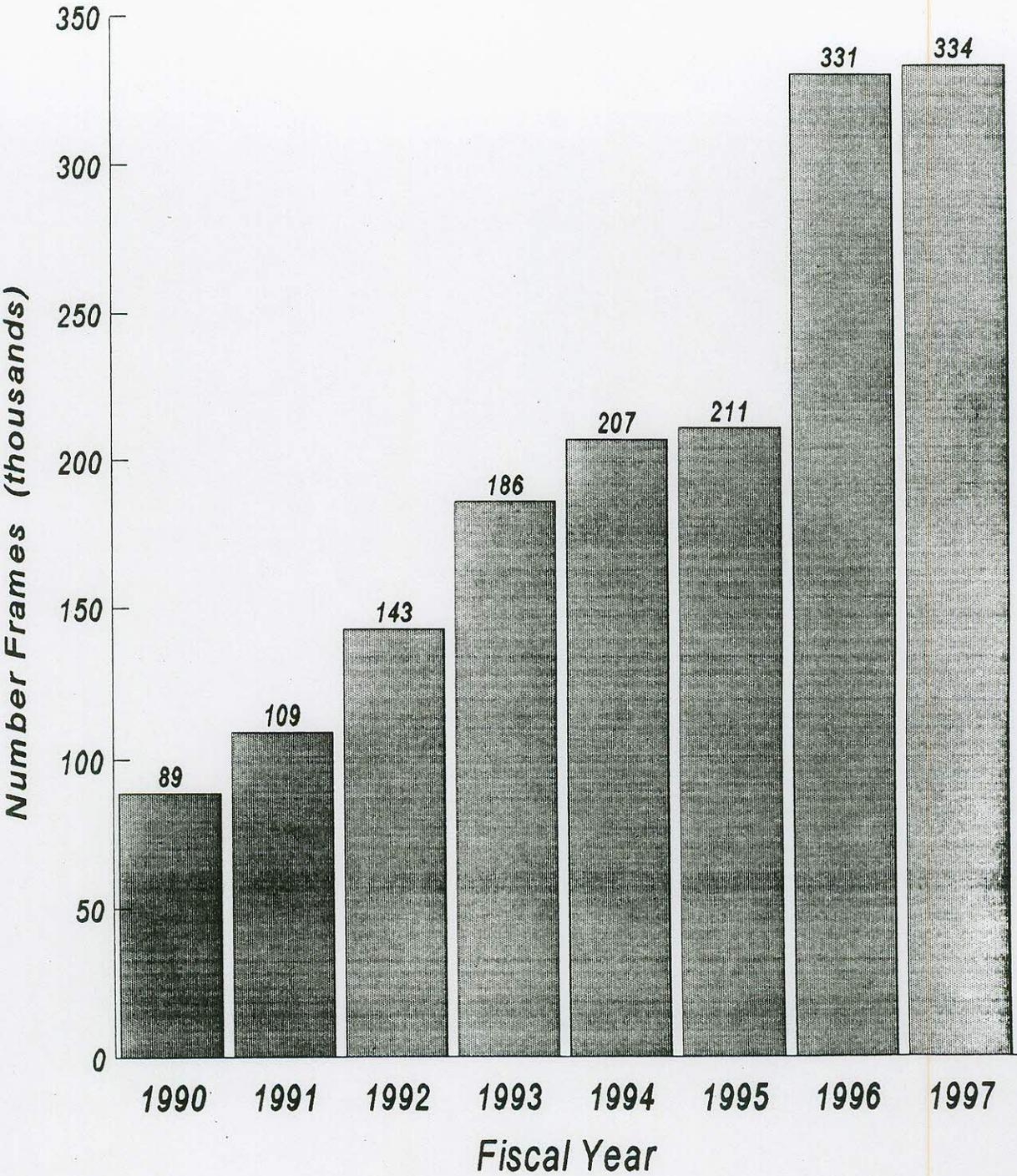
# Aerial Photographic Data Sales Fiscal Years 1973 - 1997



# NAPP Data Sales Fiscal Years 1981 - 1997

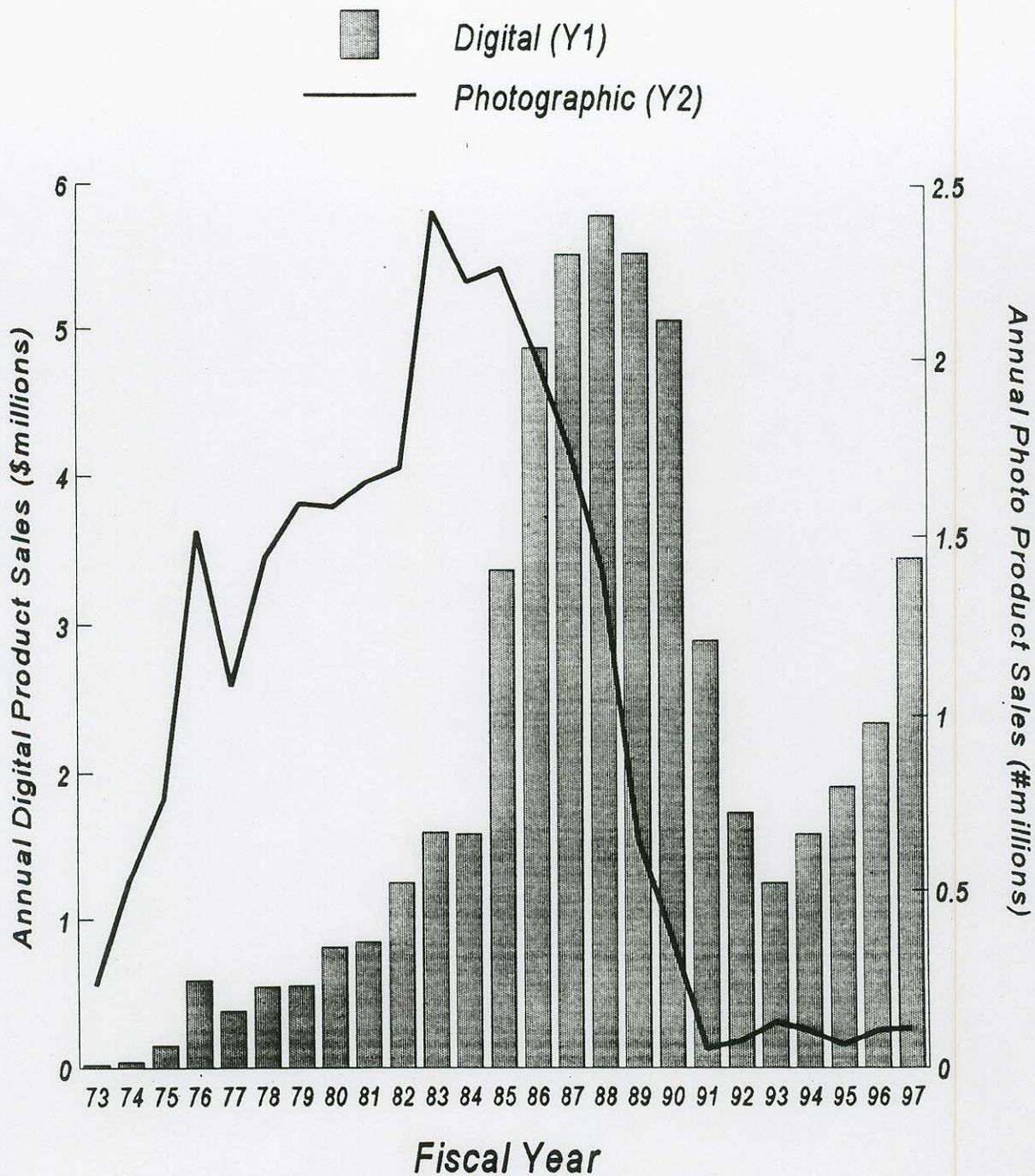


**NAPP Distribution  
Fiscal Years 1990 - 1997**



# Landsat Sales (\$) \*

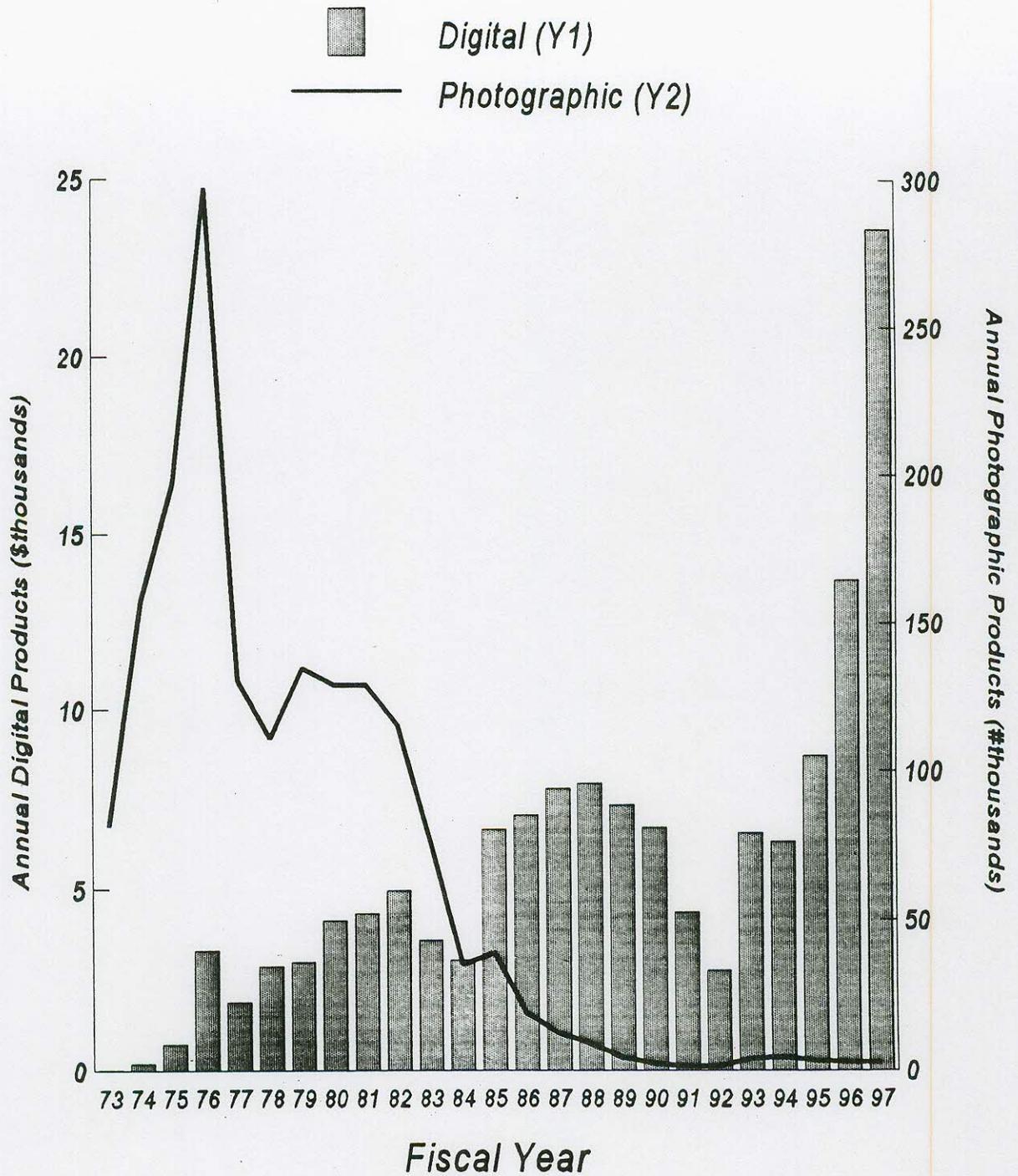
## Fiscal Years 1973 - 1997



\* Includes direct customer sales, EDC repay projects and sales to internal USGS customers.

# Landsat Sales (# of Items) \*

## Fiscal Years 1973 - 1997



\* Includes direct customer sales, EDC repay projects and sales to internal USGS customers.

## Historical Customer Profile Aerial Image Data Sales

| FISCAL YEAR | CATEGORY               | FRAMES         | % OF TOTAL  | DOLLARS             | % OF TOTAL  |
|-------------|------------------------|----------------|-------------|---------------------|-------------|
| 1997        | FEDERAL GOVERNMENT     |                |             |                     |             |
|             | USGS                   | 248,831        | 66%         | \$ 1,817,403        | 46%         |
|             | OTHER FEDERAL          | 42,894         | 11%         | 494,135             | 13%         |
|             | STATE/LOCAL GOVERNMENT | 5,382          | 1%          | 106,189             | 3%          |
|             | ACADEMIA               | 8,797          | 2%          | 83,654              | 2%          |
|             | INDUSTRY               | 54,097         | 14%         | 1,083,485           | 27%         |
|             | INDIVIDUAL             | 17,122         | 5%          | 323,306             | 8%          |
|             | NON-U.S.               | 1,945          | 1%          | 31,919              | 1%          |
|             | <b>TOTAL</b>           | <b>379,068</b> | <b>100%</b> | <b>\$ 3,940,091</b> | <b>100%</b> |
| 1996        | FEDERAL GOVERNMENT     |                |             |                     |             |
|             | USGS                   | 234,398        | 63%         | \$ 1,745,752        | 45%         |
|             | OTHER FEDERAL          | 28,249         | 8%          | 379,748             | 10%         |
|             | STATE/LOCAL GOVERNMENT | 10,148         | 3%          | 155,398             | 4%          |
|             | ACADEMIA               | 13,168         | 3%          | 134,796             | 3%          |
|             | INDUSTRY               | 66,984         | 18%         | 1,144,212           | 30%         |
|             | INDIVIDUAL             | 13,771         | 4%          | 277,014             | 7%          |
|             | NON-U.S.               | 3,013          | 1%          | 31,831              | 1%          |
|             | <b>TOTAL</b>           | <b>369,731</b> | <b>100%</b> | <b>\$ 3,868,751</b> | <b>100%</b> |
| 1995        | FEDERAL GOVERNMENT     |                |             |                     |             |
|             | USGS                   | 141,484        | 58%         | \$ 919,185          | 35%         |
|             | OTHER FEDERAL          | 21,161         | 9%          | 327,988             | 12%         |
|             | STATE/LOCAL GOVERNMENT | 11,010         | 4%          | 182,891             | 7%          |
|             | ACADEMIA               | 14,497         | 6%          | 149,575             | 6%          |
|             | INDUSTRY               | 41,965         | 17%         | 805,350             | 30%         |
|             | INDIVIDUAL             | 13,466         | 6%          | 255,520             | 10%         |
|             | NON-U.S.               | 393            | 0%          | 6,220               | 0%          |
|             | <b>TOTAL</b>           | <b>243,976</b> | <b>100%</b> | <b>\$2,646,729</b>  | <b>100%</b> |
| 1994        | FEDERAL GOVERNMENT     |                |             |                     |             |
|             | USGS                   | 110,849        | 47%         | \$ 637,614          | 25%         |
|             | OTHER FEDERAL          | 24,376         | 10%         | 420,913             | 16%         |
|             | STATE/LOCAL GOVERNMENT | 29,208         | 13%         | 344,006             | 13%         |
|             | ACADEMIA               | 9,823          | 4%          | 113,959             | 4%          |
|             | INDUSTRY               | 47,913         | 20%         | 818,873             | 32%         |
|             | INDIVIDUAL             | 13,264         | 6%          | 255,935             | 10%         |
|             | NON-U.S.               | 174            | 0%          | 2,457               | 0%          |
|             | <b>TOTAL</b>           | <b>235,607</b> | <b>100%</b> | <b>\$2,593,757</b>  | <b>100%</b> |

## Historical Customer Profile Landsat Digital Data

| FISCAL YEAR  | CATEGORY               | ITEMS         | % OF TOTAL  | DOLLARS             | % OF TOTAL  |
|--------------|------------------------|---------------|-------------|---------------------|-------------|
| 1997         | FEDERAL GOVERNMENT     |               |             |                     |             |
|              | USGS                   | 17,757        | 75%         | \$ 1,296,339        | 38%         |
|              | OTHER FEDERAL          | 1,642         | 7%          | 613,918             | 18%         |
|              | STATE/LOCAL GOVERNMENT | 30            | 0%          | 13,495              | 0%          |
|              | ACADEMIA               | 715           | 3%          | 256,183             | 7%          |
|              | INDUSTRY               | 1,344         | 6%          | 422,564             | 12%         |
|              | INDIVIDUAL             | 350           | 1%          | 142,525             | 4%          |
|              | NON-U.S.               | <u>1,756</u>  | <u>8%</u>   | <u>711,198</u>      | <u>21%</u>  |
| <b>TOTAL</b> |                        | <b>23,594</b> | <b>100%</b> | <b>\$ 3,456,222</b> | <b>100%</b> |
| 1996         | FEDERAL GOVERNMENT     |               |             |                     |             |
|              | USGS                   | 10,061        | 74%         | \$ 1,167,388        | 49%         |
|              | OTHER FEDERAL          | 706           | 5%          | 270,344             | 12%         |
|              | STATE/LOCAL GOVERNMENT | 55            | 0%          | 19,440              | 1%          |
|              | ACADEMIA               | 442           | 3%          | 140,880             | 6%          |
|              | INDUSTRY               | 1,116         | 8%          | 326,728             | 14%         |
|              | INDIVIDUAL             | 232           | 2%          | 79,094              | 3%          |
|              | NON-U.S.               | <u>1,133</u>  | <u>8%</u>   | <u>347,965</u>      | <u>15%</u>  |
| <b>TOTAL</b> |                        | <b>13,745</b> | <b>100%</b> | <b>\$ 2,351,839</b> | <b>100%</b> |
| 1995         | FEDERAL GOVERNMENT     |               |             |                     |             |
|              | USGS                   | 5,075         | 58%         | \$ 1,100,573        | 57%         |
|              | OTHER FEDERAL          | 243           | 3%          | 56,635              | 3%          |
|              | STATE/LOCAL GOVERNMENT | 34            | 0%          | 7,200               | 0%          |
|              | ACADEMIA               | 485           | 5%          | 100,715             | 5%          |
|              | INDUSTRY               | 1,281         | 15%         | 279,540             | 15%         |
|              | INDIVIDUAL             | 175           | 2%          | 40,570              | 2%          |
|              | NON-U.S.               | <u>1,466</u>  | <u>17%</u>  | <u>330,534</u>      | <u>18%</u>  |
| <b>TOTAL</b> |                        | <b>8,759</b>  | <b>100%</b> | <b>\$ 1,915,767</b> | <b>100%</b> |
| 1994         | FEDERAL GOVERNMENT     |               |             |                     |             |
|              | USGS                   | 3,609         | 57%         | \$ 997,190          | 63%         |
|              | OTHER FEDERAL          | 145           | 2%          | 22,400              | 1%          |
|              | STATE/LOCAL GOVERNMENT | 26            | 0%          | 4,550               | 0%          |
|              | ACADEMIA               | 417           | 7%          | 53,628              | 5%          |
|              | INDUSTRY               | 1,302         | 21%         | 333,040             | 21%         |
|              | INDIVIDUAL             | 70            | 1%          | 12,860              | 1%          |
|              | NON-U.S.               | <u>779</u>    | <u>12%</u>  | <u>144,820</u>      | <u>9%</u>   |
| <b>TOTAL</b> |                        | <b>6,348</b>  | <b>100%</b> | <b>\$ 1,588,810</b> | <b>100%</b> |

## Historical Customer Profile Landsat Photographic Data

| FISCAL YEAR  | CATEGORY               | FRAMES       | % OF TOTAL  | DOLLARS           | % OF TOTAL  |
|--------------|------------------------|--------------|-------------|-------------------|-------------|
| 1997         | FEDERAL GOVERNMENT     |              |             |                   |             |
|              | USGS                   | 599          | 23%         | \$ 66,391         | 61%         |
|              | OTHER FEDERAL          | 221          | 9%          | 10,096            | 9%          |
|              | STATE/LOCAL GOVERNMENT | 1            | 0%          | 18                | 0%          |
|              | ACADEMIA               | 321          | 12%         | 3,924             | 4%          |
|              | INDUSTRY               | 812          | 31%         | 14,976            | 14%         |
|              | INDIVIDUAL             | 276          | 11%         | 4,503             | 4%          |
|              | NON-U.S.               | <u>353</u>   | <u>14%</u>  | <u>8,382</u>      | <u>8%</u>   |
| <b>TOTAL</b> |                        | <b>2,583</b> | <b>100%</b> | <b>\$ 108,290</b> | <b>100%</b> |
| 1996         | FEDERAL GOVERNMENT     |              |             |                   |             |
|              | USGS                   | 852          | 32%         | \$ 70,582         | 69%         |
|              | OTHER FEDERAL          | 43           | 2%          | 1,088             | 1%          |
|              | STATE/LOCAL GOVERNMENT | 1            | 0%          | 18                | 0%          |
|              | ACADEMIA               | 88           | 3%          | 2,671             | 3%          |
|              | INDUSTRY               | 637          | 24%         | 11,274            | 11%         |
|              | INDIVIDUAL             | 353          | 13%         | 6,077             | 6%          |
|              | NON-U.S.               | <u>707</u>   | <u>26%</u>  | <u>10,734</u>     | <u>10%</u>  |
| <b>TOTAL</b> |                        | <b>2,681</b> | <b>100%</b> | <b>\$ 102,444</b> | <b>100%</b> |
| 1995         | FEDERAL GOVERNMENT     |              |             |                   |             |
|              | USGS                   | 389          | 12%         | \$ 16,852         | 26%         |
|              | OTHER FEDERAL          | 22           | 1%          | 372               | 1%          |
|              | STATE/LOCAL GOVERNMENT | 3            | 0%          | 42                | 0%          |
|              | ACADEMIA               | 77           | 2%          | 1,068             | 2%          |
|              | INDUSTRY               | 1,293        | 39%         | 21,160            | 33%         |
|              | INDIVIDUAL             | 492          | 15%         | 9,143             | 14%         |
|              | NON-U.S.               | <u>1,023</u> | <u>31%</u>  | <u>15,042</u>     | <u>24%</u>  |
| <b>TOTAL</b> |                        | <b>3,299</b> | <b>100%</b> | <b>\$ 63,679</b>  | <b>100%</b> |
| 1994         | FEDERAL GOVERNMENT     |              |             |                   |             |
|              | USGS                   | 847          | 19%         | \$ 42,188         | 42%         |
|              | OTHER FEDERAL          | 164          | 3%          | 2,258             | 2%          |
|              | STATE/LOCAL GOVERNMENT | 2            | 0%          | 72                | 0%          |
|              | ACADEMIA               | 261          | 6%          | 3,702             | 4%          |
|              | INDUSTRY               | 1,699        | 38%         | 26,604            | 27%         |
|              | INDIVIDUAL             | 411          | 9%          | 6,969             | 7%          |
|              | NON-U.S.               | <u>1,122</u> | <u>25%</u>  | <u>18,546</u>     | <u>18%</u>  |
| <b>TOTAL</b> |                        | <b>4,506</b> | <b>100%</b> | <b>\$ 100,339</b> | <b>100%</b> |

## Section IV

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### EDC Archives and Data Bases

This section describes those data archives, both digital and photographic, that are maintained by the EDC to preserve and catalog remotely sensed, cartographic, and other earth science data. In addition, several data bases refer to data held elsewhere that are of interest to EDC customers.

As of the end of fiscal year 1997, the EDC had archived nearly 11.9 million frames of photographic data and 229,729 tapes. This includes more than 2.8 million frames of Landsat photographic data and 88,046 Landsat data tapes. The International Landsat Data Base maintained by the EDC refers to more than 1 million Landsat scenes archived in the United States, and more than 2.6 million scenes of Landsat data held by foreign ground stations.

# Data Archive Report As Of October 8, 1997

## PHOTOGRAPHIC DATA ARCHIVED AT EDC

| AERIAL PHOTOGRAPHY                      |               |                  |
|-----------------------------------------|---------------|------------------|
| SOURCE                                  | ROLLS         | FRAMES           |
| US Geological Survey                    | 17,353        | 2,587,722        |
| NAPP                                    | 11,643        | 1,774,150        |
| Bureau of Land Management               | 626           | 125,147          |
| Bureau of Reclamation                   | 294           | 58,785           |
| National Park Service                   | 81            | 13,635           |
| Bureau of Indian Affairs                | 49            | 9,913            |
| <b>TOTAL DEPARTMENT OF THE INTERIOR</b> | <b>30,046</b> | <b>4,569,352</b> |
| Army Map Service                        | 1,741         | 219,794          |
| US Air Force                            | 3,398         | 339,172          |
| US Navy                                 | 6,462         | 435,621          |
| Corps of Engineers                      | 98            | 24,078           |
| <b>TOTAL DEPARTMENT OF DEFENSE</b>      | <b>11,699</b> | <b>1,018,665</b> |
| Ames Research Center                    | 5,078         | 625,640          |
| Johnson Space Center                    | 7,631         | 1,012,129        |
| Other                                   | 1,401         | 131,862          |
| <b>TOTAL NASA</b>                       | <b>14,110</b> | <b>1,769,631</b> |
| <b>OTHER SOURCE AGENCIES</b>            | <b>2,191</b>  | <b>365,565</b>   |
| <b>TOTAL AERIAL PHOTOGRAPHY</b>         | <b>58,046</b> | <b>7,723,213</b> |

| SATELLITE PHOTOGRAPHY                           |               |                  |
|-------------------------------------------------|---------------|------------------|
| SOURCE                                          | ROLLS         | FRAMES           |
| Landsat MSS 70 mm Film (1/2/3)                  | 7,708         | 1,342,187        |
| Landsat MSS 9" B&W Film                         | 10,628        | 1,338,195        |
| Landsat TM 9" B&W Film                          | 2,924         | 175,665          |
| Skylab                                          | 634           | 44,845           |
| Apollo/Gemini/Apollo-Sojuz                      | 127           | 18,372           |
| Shuttle (Incl. LFC)                             | 3,186         | 292,176          |
| Declassified Intelligence Satellite Photography | 17,391        | 945,898          |
| <b>TOTAL SATELLITE PHOTOGRAPHY</b>              | <b>42,598</b> | <b>4,157,338</b> |

# Data Archive Report As Of October 8, 1997

## DIGITAL DATA ARCHIVED AT EDC

| SOURCE                                           | MAGNETIC<br>TAPES | SCENES /<br>FILES |
|--------------------------------------------------|-------------------|-------------------|
| <b>AERIAL IMAGE DATA</b>                         |                   |                   |
| NASA Data                                        |                   |                   |
| TIMS / NS001                                     | 1,732             | 7,323             |
| SIR-C                                            | 1,013             | 10,416            |
| ASAS                                             | 166               | 162               |
| NALC                                             | 2,531             | 2,531             |
| NLDC                                             | 7,306             | 4,046             |
| GTOPO 30                                         | 1                 | 35                |
| AVHRR 1-KM Orbital Segments                      | 6,370             | 11,540            |
| National Park Service                            | 94                | N/A               |
| Side-Looking Airborne Radar (SLAR)               | <u>2,523</u>      | <u>2,928</u>      |
| <b>TOTAL</b>                                     | <b>21,736</b>     | <b>38,981</b>     |
| <b>SATELLITE IMAGE DATA</b>                      |                   |                   |
| Landsat MSS/TM Digital Data                      | 88,046            | 1,194,396         |
| AVHRR                                            |                   |                   |
| EDC-HRPT Data                                    | 21,692            | 39,166            |
| LAC Data Received via DOMSAT                     | 24,441            | 54,729            |
| LAC Data Received From Other Sources             | 16,010            | 64,336            |
| SPOT Data                                        | 308               | 308               |
| Department of Defense Multispectral Imagery Data | <u>7,298</u>      | <u>3,318</u>      |
| <b>TOTAL</b>                                     | <b>157,795</b>    | <b>1,356,253</b>  |
| <b>USGS GEO DATA (Digital Cartographic Data)</b> |                   |                   |
|                                                  | <b>QUADS</b>      | <b>PRODUCTS</b>   |
| 7.5" DIGITAL ELEVATION MODEL (DEM)               | 39,035            | 42,305            |
| 15' DIGITAL ELEVATION MODEL (DEM)                | 542               | 542               |
| 30' DIGITAL ELEVATION MODEL (DEM)                | N/A               | 1,285             |
| 250k DIGITAL ELEVATION MODEL (DEM)               | N/A               | 1,384             |
| 24k & 15' DIGITAL LINE GRAPH (DLG)               | 24,458            | 102,660           |
| 100k DIGITAL LINE GRAPH (DLG)                    | 1,842             | 20,581            |
| 1:2 M DIGITAL LINE GRAPH (DLG)                   | 49                | 323               |
| LAND USE LAND COVER (LULC)                       | 521               | 2,749             |
| 3.75" DIGITAL ORTHOQUAD QUARTER QUAD (DOQ QQ)    | N/A               | 45,920            |
| DIGITAL ORTHOQUAD COUNTY CD'S (DOQ)              | N/A               | 277               |
| DIGITAL RASTER GRAPHICS CD'S (DRG)               | <u>N/A</u>        | <u>779</u>        |
| <b>TOTAL</b>                                     | <b>66,447</b>     | <b>171,829</b>    |
| <b>EARTH SCIENCE DATA</b>                        |                   |                   |
| National Uranium Resource Evaluation (NURE/LIL)  | 957               | 7,941             |
| Geophysical Research Program                     | <u>21</u>         | <u>N/A</u>        |
| <b>TOTAL</b>                                     | <b>978</b>        | <b>7,941</b>      |
| <b>TOTAL DIGITAL HOLDINGS</b>                    | <b>246,956</b>    | <b>1,575,004</b>  |

N/A = Information not available.

# Data Archive Report As Of October 8, 1997

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## SUMMARY OF DATA ARCHIVED AT EDC

| PHOTOGRAPHIC DATA        | ROLLS          | FRAMES            |
|--------------------------|----------------|-------------------|
| AERIAL IMAGES            | 58,046         | 7,723,213         |
| LANDSAT SATELLITE IMAGES | 21,260         | 2,856,047         |
| OTHER SATELLITE IMAGES   | <u>21,338</u>  | <u>1,301,291</u>  |
| <b>TOTAL</b>             | <b>100,644</b> | <b>11,880,551</b> |

| DIGITAL DATA                 | MAGNETIC<br>TAPES / QUADS | SCENES / FILES<br>/ PRODUCTS |
|------------------------------|---------------------------|------------------------------|
| AERIAL IMAGE DATA            | 21,736                    | 38,981                       |
| LANDSAT SATELLITE IMAGE DATA | 88,046                    | 1,194,396                    |
| OTHER SATELLITE IMAGE DATA   | 69,749                    | 161,857                      |
| DIGITAL CARTOGRAPHIC DATA    | 66,447                    | 171,829                      |
| EARTH SCIENCE DATA           | <u>978</u>                | <u>7,941</u>                 |
| <b>TOTAL</b>                 | <b>246,956</b>            | <b>1,575,004</b>             |

\* Includes approximately 1,194,396 Landsat scenes and 158,231 AVHRR scenes.

# Landsat International Data Base Summary

## As Of October 8, 1997

References Landsat data archived by U.S. and foreign ground stations. Input provided via LGSOWG data exchange format tape.

| COUNTRY                                | SCENES                                                                 | LAST UPDATE   | ACQUISITION DATE RANGE       |
|----------------------------------------|------------------------------------------------------------------------|---------------|------------------------------|
| USA                                    | 631,393 MSS<br>377,202 TM                                              | DAILY         | 7/72 - 10/92<br>8/82 - 9/97  |
| BRAZIL                                 | 32,617 MSS<br>108,689 TM                                               | 5/90<br>5/95  | 5/73 - 9/87<br>3/84 - 1/95   |
| CANADA                                 | 466,225 MSS<br>188,616 TM                                              | 4/96<br>4/96  | 7/72 - 4/96<br>8/82 - 4/96   |
| EARTHNET:<br>ITALY                     | 398,865 MSS<br>135,843 TM                                              | 4/95<br>4/95  | 4/75 - 12/93<br>4/84 - 3/95  |
| SWEDEN                                 | 479,622 MSS<br>188,600 TM                                              | 4/95<br>4/95  | 4/75 - 12/93<br>4/84 - 3/95  |
| MASPALOMAS<br>(SPAIN)                  | 23,918 MSS<br>3,058 TM                                                 | 8/91<br>4/95  | 7/84 - 12/90<br>11/87 - 7/94 |
| SOUTH AFRICA                           | 58,502 MSS<br>38,630 TM                                                | 11/93<br>3/97 | 7/80 - 9/93<br>1/89 - 12/96  |
| AUSTRALIA                              | 210,671 MSS                                                            | 9/91          | 9/79 - 8/91                  |
| ARGENTINA                              | --                                                                     | --            | --                           |
| JAPAN                                  | 166,887 MSS<br>100,935 TM                                              | 7/97<br>7/97  | 1/79 - 6/97<br>4/84 - 6/97   |
| PAKISTAN                               | 3,256 MSS<br>4,583 TM                                                  | 6/90<br>6/90  | 5/89 - 12/89<br>5/89 - 12/89 |
| <b>TOTAL SCENES</b>                    | <b>2,471,956 MSS</b><br><b><u>1,146,156</u> TM</b><br><b>3,618,112</b> |               |                              |
| <b>LGSOWG<br/>TOTAL SCENES/NON-EDC</b> | <b>2,609,517</b>                                                       |               |                              |

To date, EDC has not received international data base tape updates from Indonesia, Thailand, People's Republic of China, Saudi Arabia and India.

*Note: Foreign/USA number of MSS scenes no longer contain RBV data.*

