

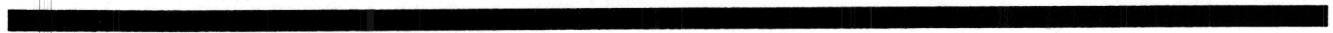
Ron M.

**EROS DATA CENTER
ANNUAL REPORT
OF
DATA SERVICES**

FY 1990



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INTRODUCTION

This report summarizes the EROS Data Center's (EDC's) data services activities for fiscal year 1990. Included is information on sales and distribution of products and services, revenue, customer profiles, historical trends, and the contents of EDC archives and data bases. The report contains information on both United States Geological Survey (USGS) data distributed by the EROS Data Center and those Landsat products and services that are produced or processed by the EDC under its agreement with the National Oceanic and Atmospheric Administration (NOAA) and the Earth Observation Satellite Company (EOSAT).

In fiscal year 1990, EDC provided over \$4,000,000 worth of USGS products and services and processed nearly \$9,500,000 in Landsat transactions for a grand total of over \$13 million. More than 29,000 user inquiries were received during the year, and 18,000 individual orders were filled.

	PRODUCTS AND SERVICES			
	USGS		LANDSAT	
	#	\$	#	\$
Photographic Products	164,424	\$2,655,285	2,087	\$ 366,995
Digital Products	9,743	579,235	6,752	5,072,380
Reference Aids	N/A	15,612	N/A	30,305
Digital Data Processing	536	632,338	N/A	N/A
Service Charges	N/A	N/A	3,107	173,400
Other	492	180,683	1,633	3,835,038*
TOTAL	175,195	\$4,063,153	13,579	\$9,478,118

*Primarily products produced at EOSAT but billed by EDC.



ANNUAL REPORT OF DATA SERVICES

FY 1990

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SECTION I.

USGS PRODUCTS AND SERVICES

USGS PRODUCTS AND SERVICES

This section summarizes EDC activities dealing with the sale and distribution of USGS products; i.e., exclusive of those Landsat products produced by EDC under its agreement with NOAA and EOSAT.

In fiscal year 1990, EDC provided over \$4,000,000 worth of USGS products and services. Of this total, \$1,600,000 were direct repay sales and \$1,100,000 were products and services provided through full repay EDC projects, for a "reimbursable" total of nearly \$2,700,000. The remaining \$1,300,000 were for products and services distributed to users within the U.S. Geological Survey, including internal EDC users, other National Mapping Division facilities, and other divisions of the USGS.



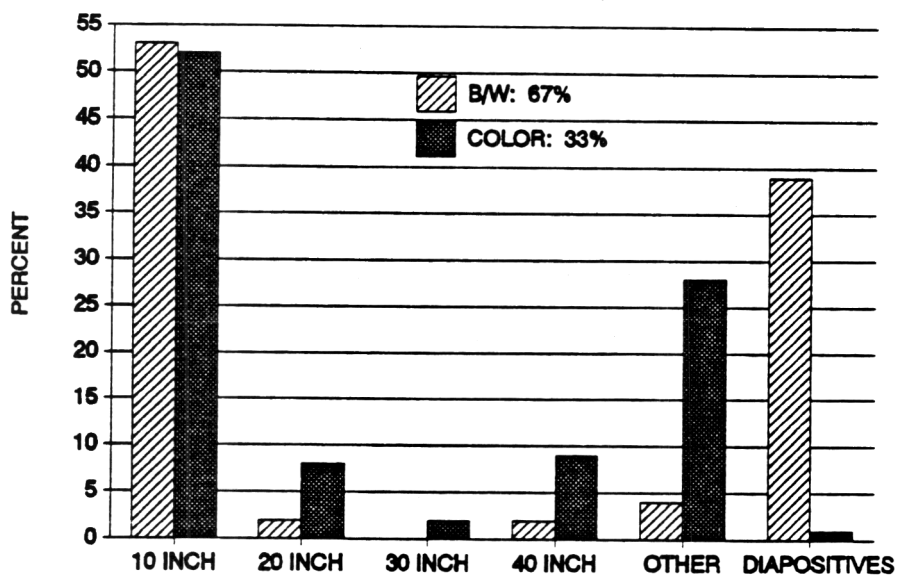
ANNUAL SALES REPORT

FISCAL YEAR 1990

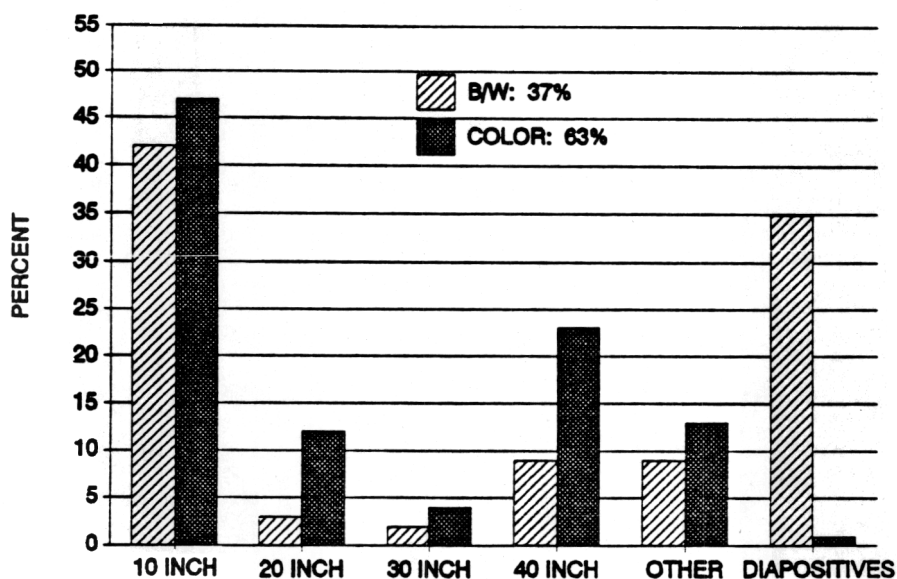
	DIRECT REPAY CUSTOMERS	EDC REPAY PROJECTS	USGS CUSTOMERS
PHOTOGRAPHIC DATA			
AERIAL IMAGE DATA			
NAPP	\$ 940,730	\$ 900	\$ 415,558
SLAR	16,391	0	27,138
Other	373,619	1,301	45,527
SATELLITE IMAGE DATA			
AVHRR	100	0	0
Other	16,685	233	531
Digital Film Recorder Products	10,628	163,790	191,490
Other Photographic Data	<u>53,805</u>	<u>253,202</u>	<u>143,657</u>
TOTAL PHOTOGRAPHIC DATA	\$1,411,958	\$ 419,426	\$ 823,901
DIGITAL DATA			
AERIAL IMAGE DATA			
SLAR	1,520	0	18,960
SATELLITE IMAGE DATA			
AVHRR	38,302	83,730	155,145
NDCDB DATA	115,333	611	7,129
OTHER DIGITAL DATA	<u>25,810</u>	<u>64,880</u>	<u>67,815</u>
TOTAL DIGITAL DATA	\$ 180,965	\$ 149,221	\$ 249,049
MISCELLANEOUS			
Digital Data Processing	12,540	391,612	228,186
Reference Aids	5,092	0	10,520
Satellite Data Brokerage Fees	0	170,404	0
Other Products and Services	<u>7,690</u>	<u>209</u>	<u>2,380</u>
TOTAL MISCELLANEOUS	\$ 25,322	\$ 562,225	\$ 241,086
GRAND TOTAL	\$1,618,245	\$1,130,872	\$1,314,036

PRODUCT PROFILE USGS PHOTOGRAPHIC DATA FY 1990

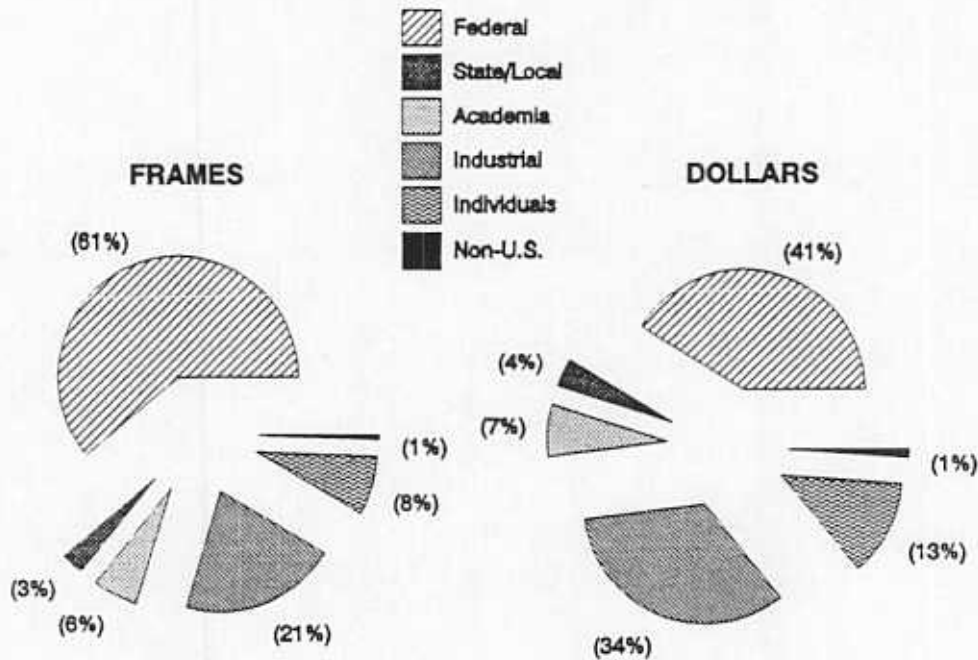
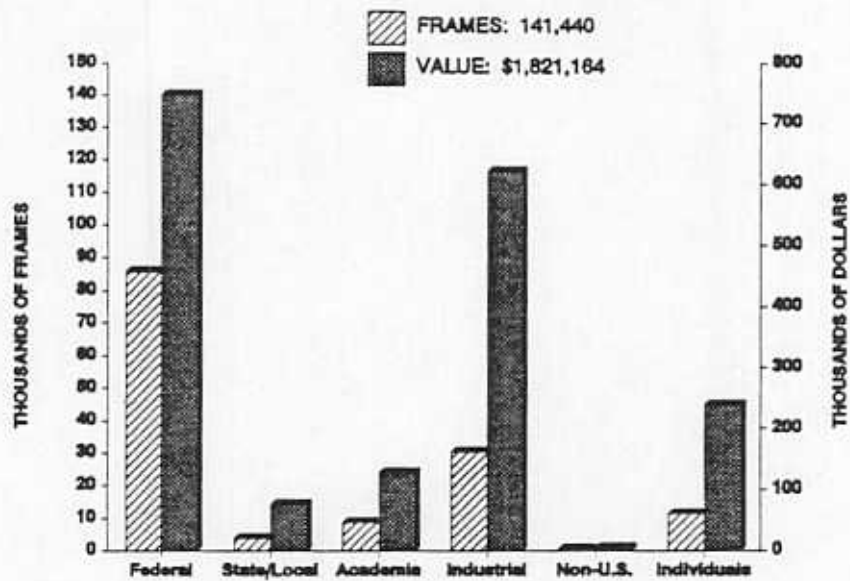
TOTAL FRAMES: 165,000



TOTAL DATA VALUE: \$2,655,000



CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA FY 1990

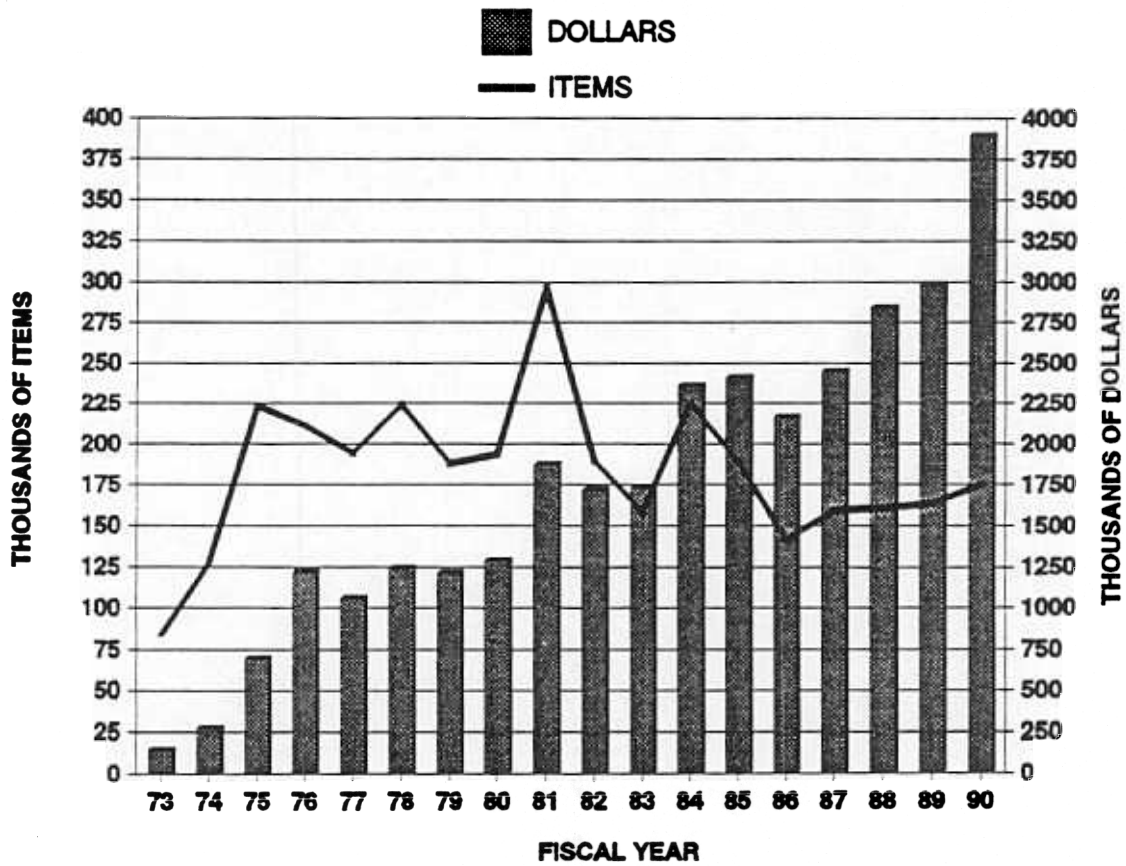




**NATIONAL AERIAL PHOTOGRAPHY PROGRAM
(NAPP)
ANNUAL ACTIVITY REPORT**

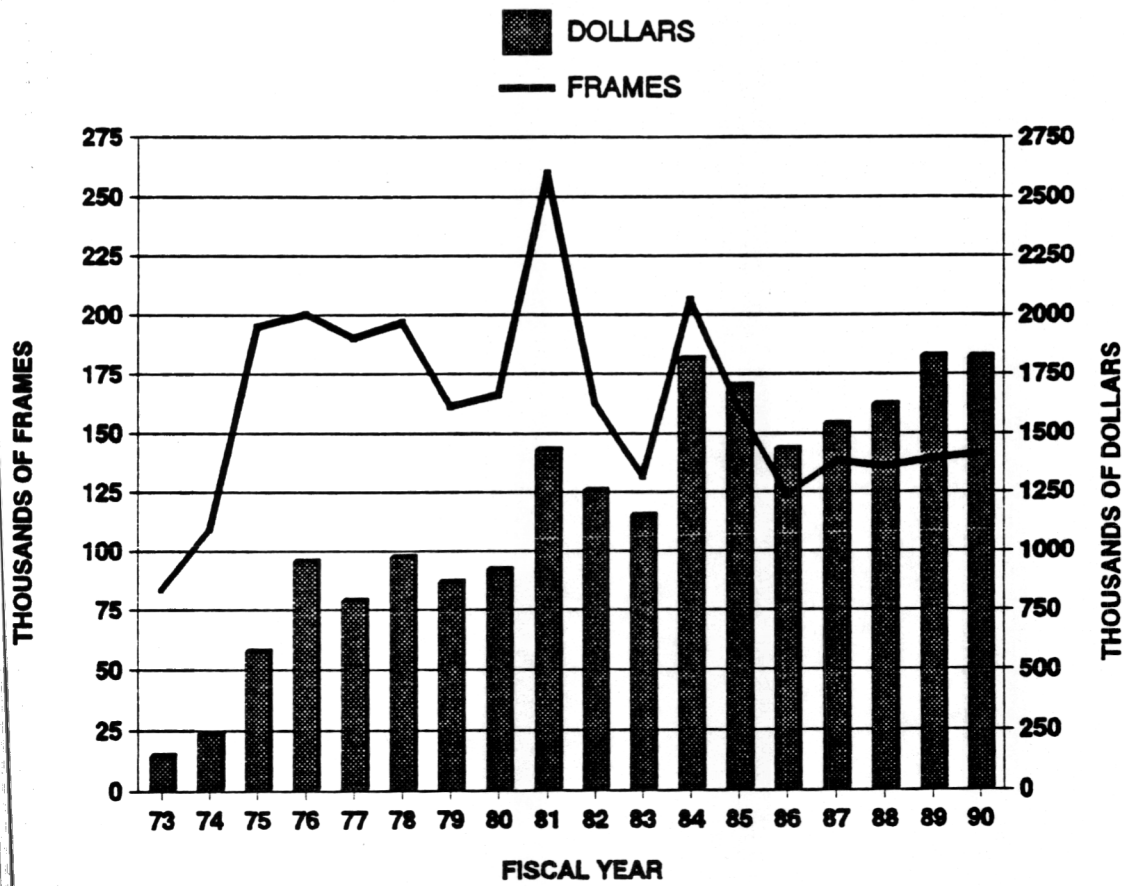
ACTIVITY	FY 1990	FY 1989
NUMBER OF FRAMES RECEIVED		
Black and White	27,428	1,266
Color infrared	27,053	29,711
TOTAL	<u>54,481</u>	<u>30,977</u>
NUMBER OF MASTER FRAMES DUPLICATED		
Black and White	76,428	95,271
Color Infrared	30,053	38,173
TOTAL	<u>106,481</u>	<u>133,444</u>
COST TO EDC FOR DUPLICATION		
Black and White (\$3/frame)	229,284	285,813
Color Infrared (\$6/frame)	180,318	229,038
TOTAL	<u>\$ 409,602</u>	<u>\$ 514,851</u>
NUMBER OF FRAMES SOLD		
Black and White Film/Paper	83,054	62,717
Color Infrared Film/Paper	25,512	41,211
Other	378	232
TOTAL	<u>108,944</u>	<u>104,160</u>
NAPP PARTICIPANT PURCHASES		
Bureau of Indian Affairs	1,140	152
Bureau of Land Management	34,212	22,297
Corps of Engineers	1,401	0
Defense Mapping Agency	106	1,464
Fish and Wildlife Service	24,871	21,548
Forest Service	26,914	36,557
National Oceanic & Atmos. Admin.	0	65
National Park Service	300	3,300
Soil Conservation Service	1,424	2,488
State of Maryland	12,254	-64
State of Pennsylvania	0	13,385
State of South Carolina	381	0
Tennessee Valley Authority	1,874	3,623
U.S. Geological Survey	405,585	405,071
TOTAL	<u>\$ 510,462</u>	<u>\$ 509,886</u>
PURCHASES BY ALL OTHERS	\$ 846,726	\$ 875,346
REVENUE FROM FRAMES SOLD		
Black and White Film/Paper	635,056	513,771
Color Infrared Film/Paper	720,953	870,765
Other	1,179	696
TOTAL	<u>\$1,357,188</u>	<u>\$1,385,232</u>

HISTORICAL USGS DATA SALES FY 1973 - 1990



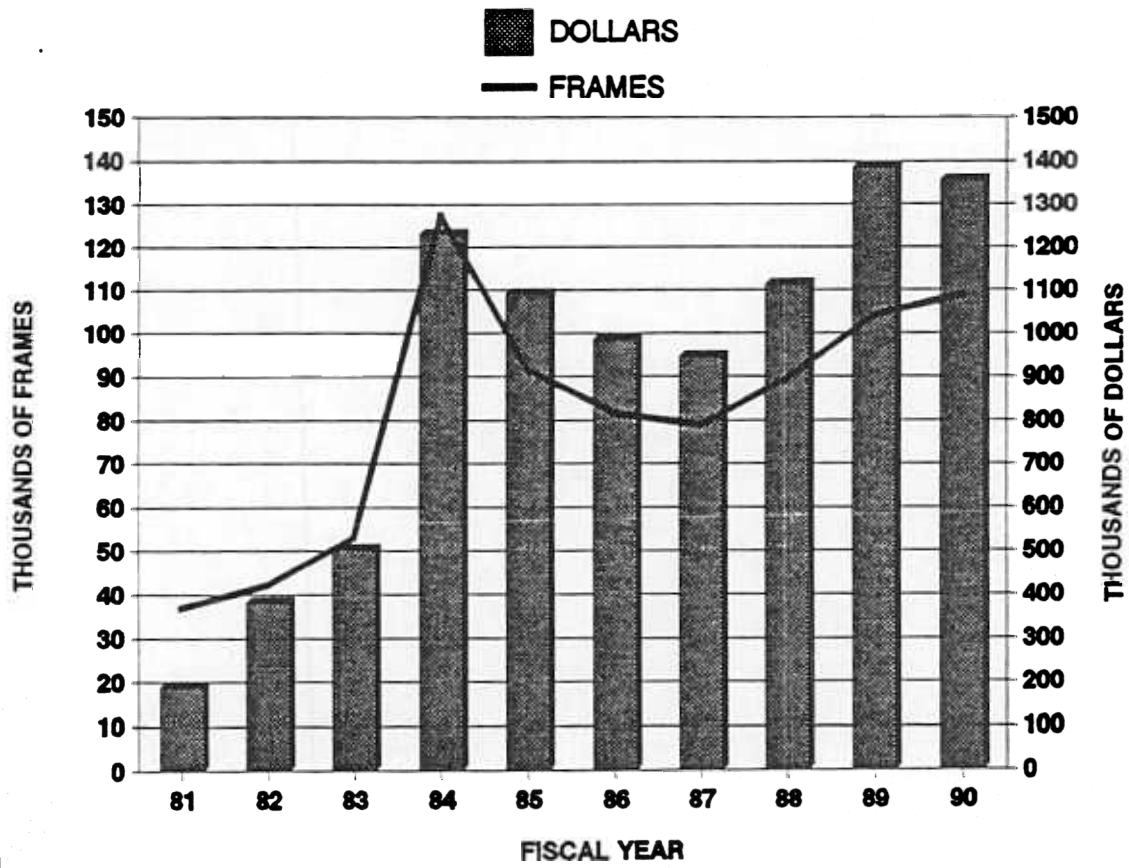
HISTORICAL AERIAL PHOTOGRAPHIC DATA SALES

FY 1973 - 1990



HISTORICAL NAPP PHOTOGRAPHIC DATA SALES

FY 1981 - 1990





HISTORICAL CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1988	FEDERAL GOVERNMENT				
	USGS	51,962	38%	\$ 434,463	27%
	OTHER FEDERAL	24,252	18%	293,599	18%
	STATE/LOCAL GOV'T.	5,641	4%	71,849	5%
	ACADEMIA	8,804	7%	93,193	6%
	INDUSTRY	33,223	24%	508,406	31%
	INDIVIDUAL	11,113	8%	211,341	13%
	NON-U.S.	785	1%	6,494	0%
	TOTAL	135,780	100%	\$1,619,345	100%
1989	FEDERAL GOVERNMENT				
	USGS	58,035	42%	\$ 471,928	26%
	OTHER FEDERAL	15,611	11%	211,120	12%
	STATE/LOCAL GOV'T.	10,124	7%	169,894	9%
	ACADEMIA	7,564	6%	94,831	5%
	INDUSTRY	34,707	25%	618,527	34%
	INDIVIDUAL	12,470	9%	249,884	14%
	NON-U.S.	598	0%	6,541	0%
	TOTAL	139,109	100%	\$1,822,725	100%
1990	FEDERAL GOVERNMENT				
	USGS	64,369	46%	\$ 490,424	27%
	OTHER FEDERAL	21,529	15%	257,865	14%
	STATE/LOCAL GOV'T.	3,941	3%	76,727	4%
	ACADEMIA	8,858	6%	128,345	7%
	INDUSTRY	30,478	22%	621,597	34%
	INDIVIDUAL	11,580	8%	240,084	13%
	NON-U.S.	685	0%	6,122	1%
	TOTAL	141,440	100%	\$1,821,164	100%



HISTORICAL CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1985	FEDERAL GOVERNMENT				
	USGS	65,311	41%	\$ 466,099	27%
	OTHER FEDERAL	26,172	16%	324,603	19%
	STATE/LOCAL GOV'T.	5,500	3%	87,348	5%
	ACADEMIA	10,126	6%	98,878	6%
	INDUSTRY	39,444	25%	537,464	32%
	INDIVIDUAL	12,646	8%	174,386	10%
	NON-U.S.	1,816	1%	11,087	1%
TOTAL		161,015	100%	\$1,699,865	100%
1986	FEDERAL GOVERNMENT				
	USGS	44,178	36%	\$ 339,818	24%
	OTHER FEDERAL	16,487	13%	222,072	16%
	STATE/LOCAL GOV'T.	5,197	4%	102,840	7%
	ACADEMIA	9,278	8%	84,200	6%
	INDUSTRY	39,081	32%	532,502	37%
	INDIVIDUAL	9,015	7%	149,631	10%
	NON-U.S.	282	0%	3,260	0%
TOTAL		123,518	100%	\$1,434,323	100%
1987	FEDERAL GOVERNMENT				
	USGS	62,512	45%	\$ 461,300	30%
	OTHER FEDERAL	20,977	15%	246,573	16%
	STATE/LOCAL GOV'T.	5,545	4%	81,457	5%
	ACADEMIA	11,270	8%	113,052	7%
	INDUSTRY	26,929	20%	457,368	30%
	INDIVIDUAL	10,108	7%	170,686	11%
	NON-U.S.	853	1%	8,243	1%
TOTAL		138,194	100%	\$1,538,679	100%



HISTORICAL CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1981	FEDERAL GOVERNMENT	125,533	48%	\$ 587,373	41%
	STATE/LOCAL GOV'T.	8,735	3%	54,140	4%
	ACADEMIA	20,270	8%	113,880	8%
	INDUSTRY	78,568	30%	487,839	34%
	INDIVIDUAL	22,979	9%	172,825	12%
	NON-U.S.	3,739	2%	13,937	1%
	TOTAL		259,824	100%	\$1,429,994
1982	FEDERAL GOVERNMENT	82,360	51%	\$ 528,020	42%
	STATE/LOCAL GOV'T.	6,728	4%	41,799	3%
	ACADEMIA	11,622	7%	100,712	8%
	INDUSTRY	45,837	28%	424,905	34%
	INDIVIDUAL	14,639	9%	147,509	12%
	NON-U.S.	1,635	1%	14,058	1%
	TOTAL		162,821	100%	\$1,257,003
1983	FEDERAL GOVERNMENT	73,664	56%	\$ 517,153	45%
	STATE/LOCAL GOV'T.	3,718	3%	48,505	4%
	ACADEMIA	10,003	8%	84,094	7%
	INDUSTRY	32,806	25%	359,879	31%
	INDIVIDUAL	10,949	8%	131,244	12%
	NON-U.S.	682	0%	5,791	1%
	TOTAL		131,822	100%	\$1,147,666
1984	FEDERAL GOVERNMENT				
	USGS	78,526	38%	\$ 601,702	33%
	OTHER FEDERAL	26,386	13%	213,783	12%
	STATE/LOCAL GOV'T.	7,992	4%	157,336	9%
	ACADEMIA	11,517	5%	102,772	5%
	INDUSTRY	67,327	33%	560,185	31%
	INDIVIDUAL	12,728	6%	163,716	9%
	NON-U.S.	1,769	1%	12,891	1%
TOTAL		206,245	100%	\$1,812,385	100%



HISTORICAL CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1977	FEDERAL GOVERNMENT	104,475	55%	\$ 330,145	42%
	NASA INVESTIGATORS	2,010	1%	10,629	1%
	STATE/LOCAL GOV'T.	13,562	7%	47,483	6%
	ACADEMIA	11,670	6%	68,162	9%
	INDUSTRY	44,757	24%	235,600	30%
	INDIVIDUAL	12,763	7%	92,175	12%
	NON-U.S.	934	0%	3,500	0%
	UNCATEGORIZED	300	0%	1,091	0%
	TOTAL	190,471	100%	\$ 788,785	100%
1978	FEDERAL GOVERNMENT	97,355	50%	\$ 446,387	46%
	NASA INVESTIGATORS	792	0%	2,611	0%
	STATE/LOCAL GOV'T.	3,840	2%	23,854	3%
	ACADEMIA	17,176	9%	81,049	8%
	INDUSTRY	61,752	31%	317,644	33%
	INDIVIDUAL	13,179	7%	91,198	9%
	NON-U.S.	2,781	1%	11,098	1%
		TOTAL	196,875	100%	\$ 973,841
1979	FEDERAL GOVERNMENT	76,731	48%	\$ 358,866	42%
	STATE/LOCAL GOV'T.	5,450	3%	33,949	4%
	ACADEMIA	15,451	10%	74,305	8%
	INDUSTRY	49,976	31%	300,376	35%
	INDIVIDUAL	13,298	8%	96,885	11%
	NON-U.S.	415	0%	1,963	0%
		TOTAL	161,321	100%	\$ 866,344
1980	FEDERAL GOVERNMENT	55,217	33%	\$ 286,055	31%
	STATE/LOCAL GOV'T.	6,208	4%	38,091	4%
	ACADEMIA	28,676	17%	118,700	13%
	INDUSTRY	56,067	34%	340,509	37%
	INDIVIDUAL	19,383	11%	133,347	14%
	NON-U.S.	1,088	1%	5,567	1%
		TOTAL	166,639	100%	\$ 922,269



HISTORICAL CUSTOMER PROFILE AERIAL PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1973	FEDERAL GOVERNMENT	19,339	23%	\$ 44,664	31%
	STATE/LOCAL GOV'T.	33,563	40%	33,988	24%
	ACADEMIA	8,139	10%	16,471	11%
	INDUSTRY	14,086	17%	28,883	20%
	INDIVIDUAL	6,215	7%	15,158	10%
	NON-U.S.	2,590	3%	5,465	4%
	UNCATEGORIZED	10	0%	47	0%
	TOTAL		83,942	100%	\$144,676
1974	FEDERAL GOVERNMENT	16,544	15%	\$ 47,848	20%
	STATE/LOCAL GOV'T.	3,618	3%	10,592	5%
	ACADEMIA	14,168	13%	38,617	16%
	INDUSTRY	63,953	58%	108,803	46%
	INDIVIDUAL	7,817	7%	24,702	10%
	NON-U.S.	1,759	2%	3,550	2%
	UNCATEGORIZED	1,631	2%	3,220	1%
	TOTAL		109,490	100%	\$237,332
1975	FEDERAL GOVERNMENT	75,992	39%	\$229,876	40%
	STATE/LOCAL GOV'T.	4,821	2%	18,726	3%
	ACADEMIA	28,447	15%	90,031	15%
	INDUSTRY	72,477	37%	185,871	32%
	INDIVIDUAL	9,914	5%	45,595	8%
	NON-U.S.	2,287	1%	4,917	1%
	UNCATEGORIZED	1,054	1%	3,621	1%
	TOTAL		194,922	100%	\$578,637
1976 (15 MONTHS)	FEDERAL GOVERNMENT	89,625	45%	\$364,524	38%
	NASA INVESTIGATORS	11,551	6%	69,892	7%
	STATE/LOCAL GOV'T.	13,633	7%	59,556	6%
	ACADEMIA	16,521	8%	84,460	9%
	INDUSTRY	45,400	23%	231,120	24%
	INDIVIDUAL	19,945	10%	132,882	14%
	NON-U.S.	2,003	1%	8,360	1%
	UNCATEGORIZED	1,510	0%	5,396	1%
TOTAL		200,188	100%	\$956,190	100%

SECTION II.

LANDSAT PRODUCTS AND SERVICES

LANDSAT PRODUCTS AND SERVICES

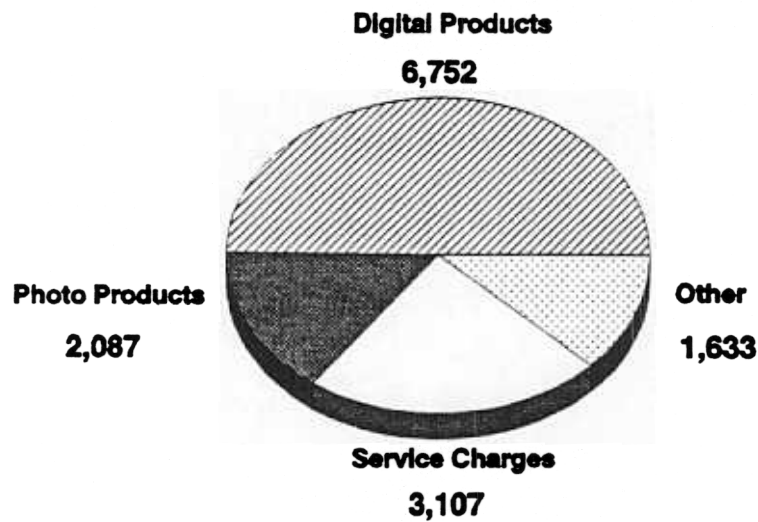
The following summarizes EROS Data Center activities in support of the USGS agreement with NOAA and EOSAT for the production and distribution of Landsat products and services.

Landsat sales reported here refer only to data distributed by EDC, or distributed by EOSAT but billed through EDC. Some Landsat products that are both produced and billed directly by EOSAT do not appear in EDC records.

In fiscal year 1990, total revenue for Landsat activities handled through EDC was nearly \$9,500,000. Of that, only \$370,000 was for photographic products, while over \$5,000,000 was for digital products. The "miscellaneous" category, which consisted primarily of data produced and distributed by EOSAT directly, but only billed through EDC, accounted for over \$3,700,000.

LANDSAT TRANSACTIONS AND REVENUE FY 1990

TOTAL TRANSACTIONS: 13,579



TOTAL REVENUE: \$9,478,118





LANDSAT PRODUCT SUMMARY

FISCAL YEAR 1990

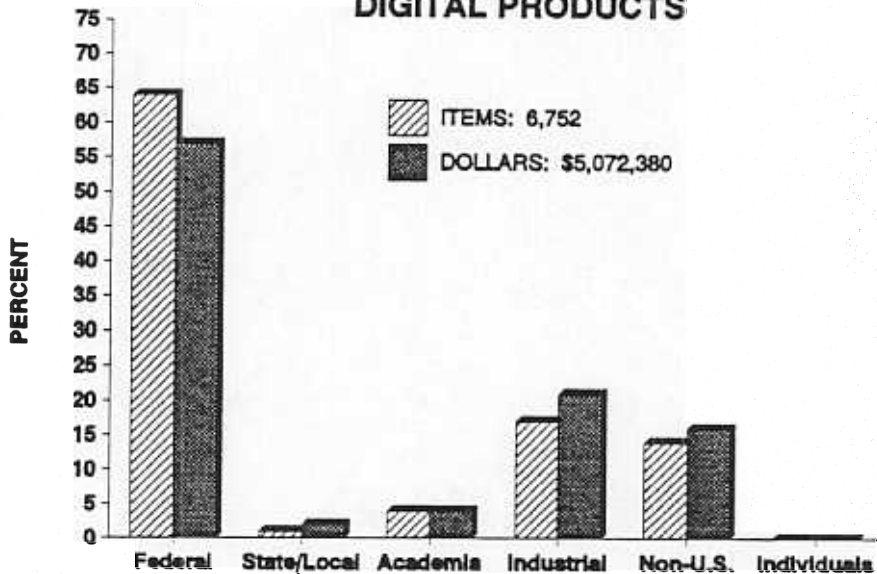
PRODUCTS/SERVICES/CHARGES	ITEMS	DOLLARS
PHOTOGRAPHIC PRODUCTS	2,087	\$ 366,995
MSS/RBV	1,755	243,805
TM	332	123,190
DIGITAL PRODUCTS	6,752	5,072,380
MSS/RBV Scenes	2,993	1,958,350
Additional MSS Copies	1	60
MSS Sample CCT'S	5	250
MSS Floppy Disks	0	0
TM TIPS Quads	3,260	3,047,300
Additional TM TIPS Copies	417	31,020
TM Scrounge Scenes	1	320
TM Sample CCT'S	-1	-200
TM Floppy Disks	76	35,280
MISCELLANEOUS	1,633	3,736,553
ACCESSION AIDS	N/A	30,305
POSTAGE CHARGES	N/A	40,959
SALES TAX	N/A	57,526
SUBTOTAL	10,472	9,304,718
CLOUD COVER SURCHARGES	3,107	173,400
TOTAL LANDSAT REVENUE	13,579	\$9,478,118

CUSTOMER PROFILE

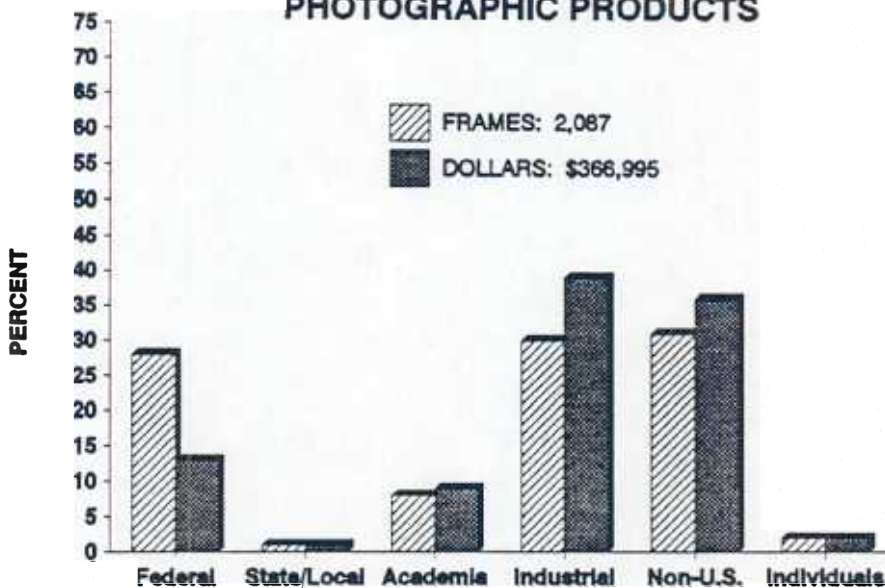
LANDSAT DATA

FY 1990

DIGITAL PRODUCTS



PHOTOGRAPHIC PRODUCTS

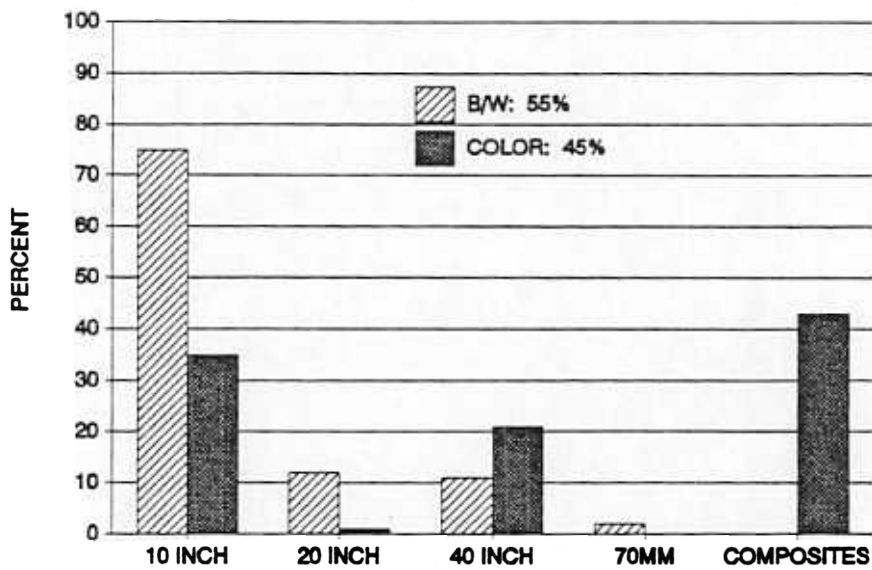


PRODUCT PROFILE

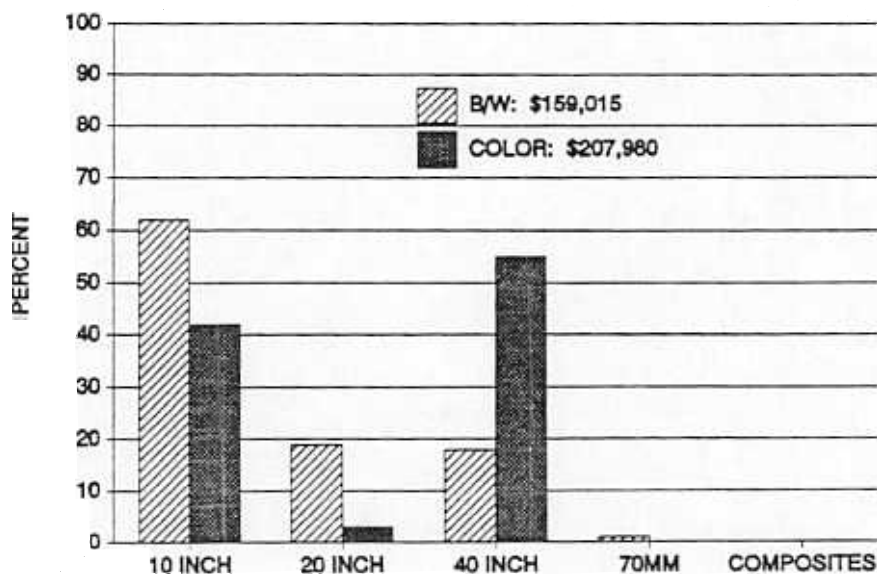
LANDSAT PHOTOGRAPHIC DATA

FY 1990

TOTAL FRAMES: 2087



TOTAL DATA VALUE: \$366,995

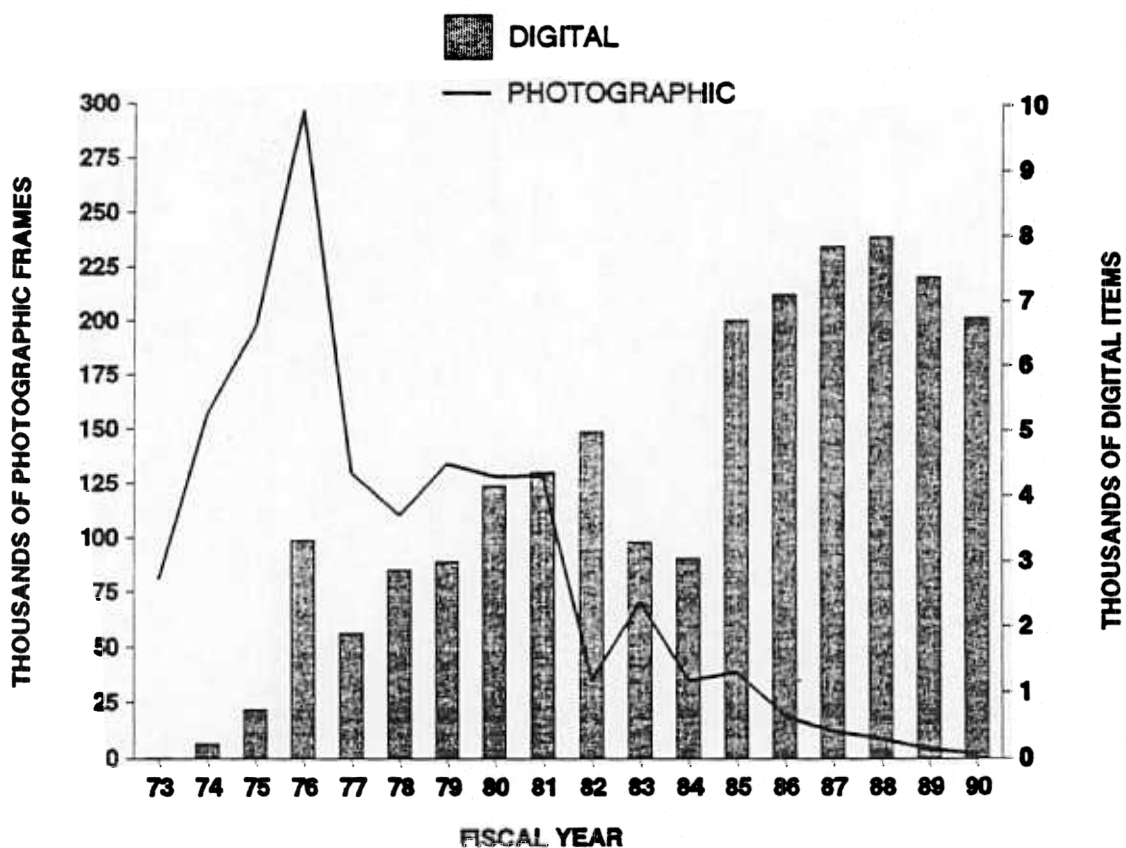




LANDSAT DATA PURCHASED FOR FEDERAL AGENCIES BY USGS VIA BROKERAGE AGREEMENT WITH EOSAT FY 1990

BROKER	ITEMS	DOLLARS
Ag	13	\$ 36,738
Ag/FAS/Foreign	1,742	662,405
Ag/FAS/Domestic	2,940	1,052,800
Ag/SCS	26	26,372
CIA	858	251,427
Commerce/NOAA/NESDIS	4	2,900
Defense	917	826,227
Interior/BIA	26	25,800
Interior/BLM	5	8,511
Interior/BR	17	29,268
Interior/NPS	1	3,969
Interior/Survey	134	115,548
Interior/Survey/GD	63	67,708
Interior/Survey/WRD	13	33,718
NASA/Ames	40	24,363
NASA/GSFC	30	14,973
NASA/GSFC - Science Office	64	54,579
NASA/Langley	80	115,988
NOAA	56	30,562
TOTAL	7,029	\$3,383,856

HISTORICAL LANDSAT PRODUCT SALES FY 1973-1990



HISTORICAL CUSTOMER PROFILE LANDSAT PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1988	FEDERAL GOVERNMENT				
	USGS	281	3%	\$ 40,020	3%
	OTHER FEDERAL	2,961	33%	455,510	33%
	STATE/LOCAL GOV'T.	25	0%	5,390	0%
	ACADEMIA	408	5%	55,428	4%
	INDUSTRY	2,378	26%	377,490	27%
	INDIVIDUAL	213	2%	35,040	2%
	NON-U.S.	2,822	31%	428,134	31%
TOTAL		9,088	100%	\$1,397,012	100%
1989	FEDERAL GOVERNMENT				
	USGS	87	2%	\$ 17,550	3%
	OTHER FEDERAL	1,608	38%	174,180	27%
	STATE/LOCAL GOV'T.	51	1%	13,280	2%
	ACADEMIA	288	7%	47,336	7%
	INDUSTRY	1,176	28%	238,078	37%
	INDIVIDUAL	107	3%	17,326	3%
	NON-U.S.	889	21%	139,270	21%
TOTAL		4,206	100%	\$ 647,020	100%
1990	FEDERAL GOVERNMENT				
	USGS	12	1%	\$ 3,555	1%
	OTHER FEDERAL	566	27%	43,240	12%
	STATE/LOCAL GOV'T.	25	1%	3,785	1%
	ACADEMIA	171	8%	34,650	9%
	INDUSTRY	634	30%	142,013	39%
	INDIVIDUAL	42	2%	7,523	2%
	NON-U.S.	637	31%	132,229	36%
TOTAL		2,087	100%	\$ 366,995	100%



HISTORICAL CUSTOMER PROFILE LANDSAT PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1984	FEDERAL GOVERNMENT	14,543	42%	\$1,143,470	52%
	STATE/LOCAL GOV'T.	1,149	3%	71,213	3%
	ACADEMIA	2,287	6%	101,308	5%
	INDUSTRY	7,612	22%	492,287	22%
	INDIVIDUAL	1,820	5%	69,318	3%
	NON-U.S.	7,553	22%	343,657	15%
	TOTAL		34,964	100%	\$2,221,253
1985	FEDERAL GOVERNMENT	20,844	53%	\$1,185,757	53%
	STATE/LOCAL GOV'T.	1,105	3%	104,312	5%
	ACADEMIA	2,336	6%	112,252	5%
	INDUSTRY	6,924	18%	478,393	21%
	INDIVIDUAL	1,200	3%	53,032	2%
	NON-U.S.	6,670	17%	326,979	14%
	TOTAL		39,079	100%	\$2,260,725
1986	FEDERAL GOVERNMENT				
	USGS	348	2%	\$ 49,889	2%
	OTHER FEDERAL	7,229	38%	773,963	38%
	STATE/LOCAL GOV'T.	397	2%	28,730	1%
	ACADEMIA	568	3%	72,568	4%
	INDUSTRY	4,232	22%	456,607	23%
	INDIVIDUAL	333	2%	34,441	2%
	NON-U.S.	5,954	31%	599,590	30%
TOTAL		19,061	100%	\$2,015,788	100%
1987	FEDERAL GOVERNMENT				
	USGS	386	3%	\$ 34,800	2%
	OTHER FEDERAL	6,829	55%	964,070	55%
	STATE/LOCAL GOV'T.	389	3%	55,250	3%
	ACADEMIA	507	4%	67,750	4%
	INDUSTRY	1,757	14%	252,060	15%
	INDIVIDUAL	216	2%	35,560	2%
	NON-U.S.	2,304	19%	340,630	19%
TOTAL		12,388	100%	\$1,750,120	100%



HISTORICAL CUSTOMER PROFILE LANDSAT PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1980	FEDERAL GOVERNMENT	25,297	20%	\$ 277,631	18%
	STATE/LOCAL GOV'T.	4,134	3%	59,877	4%
	ACADEMIA	12,702	10%	149,501	9%
	INDUSTRY	23,467	18%	365,230	23%
	INDIVIDUAL	8,121	6%	91,932	6%
	NON-U.S.	54,712	43%	635,166	40%
	TOTAL		128,433	100%	\$1,579,337
1981	FEDERAL GOVERNMENT	28,355	22%	\$ 334,367	20%
	STATE/LOCAL GOV'T.	3,177	2%	49,067	3%
	ACADEMIA	11,123	9%	144,361	9%
	INDUSTRY	28,219	22%	439,545	27%
	INDIVIDUAL	9,273	7%	113,842	7%
	NON-U.S.	48,628	38%	567,986	34%
	TOTAL		128,775	100%	\$1,649,168
1982	FEDERAL GOVERNMENT	22,741	20%	\$ 277,297	17%
	STATE/LOCAL GOV'T.	4,923	4%	75,297	4%
	ACADEMIA	7,460	6%	124,827	7%
	INDUSTRY	21,308	19%	472,840	28%
	INDIVIDUAL	5,900	5%	111,765	7%
	NON-U.S.	52,693	46%	629,093	37%
	TOTAL		115,025	100%	\$1,691,119
1983	FEDERAL GOVERNMENT	16,907	24%	\$ 887,784	40%
	STATE/LOCAL GOV'T.	3,415	5%	95,163	4%
	ACADEMIA	4,987	7%	123,375	5%
	INDUSTRY	14,620	20%	510,532	23%
	INDIVIDUAL	3,562	5%	99,230	4%
	NON-U.S.	27,746	39%	530,510	24%
	TOTAL		71,237	100%	\$2,246,594



HISTORICAL CUSTOMER PROFILE LANDSAT PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %	
1976 (15 MONTHS)	FEDERAL GOVERNMENT	38,639	13%	\$ 249,429	16%	
	NASA INVESTIGATORS	68,448	23%	266,967	18%	
	STATE/LOCAL GOV'T.	1,359	1%	8,559	1%	
	ACADEMIA	34,235	12%	152,089	10%	
	INDUSTRY	54,198	18%	292,324	19%	
	INDIVIDUAL	21,760	7%	160,839	11%	
	NON-U.S.	78,036	26%	377,105	25%	
	UNCATEGORIZED	578	0%	4,779	0%	
	TOTAL		297,253	100%	\$1,512,091	100%
1977	FEDERAL GOVERNMENT	20,691	16%	\$ 199,216	18%	
	NASA INVESTIGATORS	9,650	7%	60,632	6%	
	STATE/LOCAL GOV'T.	1,331	1%	14,368	1%	
	ACADEMIA	13,881	11%	104,677	10%	
	INDUSTRY	36,368	28%	289,983	27%	
	INDIVIDUAL	7,987	6%	68,929	6%	
	NON-U.S.	40,143	31%	344,279	32%	
	UNCATEGORIZED	49	0%	344	0%	
	TOTAL		130,100	100%	\$1,082,428	100%
1978	FEDERAL GOVERNMENT	26,995	24%	\$ 428,269	30%	
	NASA INVESTIGATORS	512	1%	5,431	0%	
	STATE/LOCAL GOV'T.	1,465	1%	21,557	1%	
	ACADEMIA	9,966	9%	108,179	8%	
	INDUSTRY	20,495	19%	304,624	21%	
	INDIVIDUAL	5,524	5%	71,208	5%	
	NON-U.S.	45,766	41%	502,100	35%	
	TOTAL		110,723	100%	\$1,441,368	100%
	1979	FEDERAL GOVERNMENT	31,973	24%	\$ 383,964	24%
STATE/LOCAL GOV'T.		943	1%	15,381	1%	
ACADEMIA		14,336	10%	159,431	10%	
INDUSTRY		25,151	19%	366,192	23%	
INDIVIDUAL		9,198	7%	93,654	6%	
NON-U.S.		52,881	39%	569,491	26%	
TOTAL			134,482	100%	\$1,588,133	100%



HISTORICAL CUSTOMER PROFILE LANDSAT PHOTOGRAPHIC DATA

FISCAL YEAR	CATEGORY	FRAMES	FR. %	DOLLARS	\$ %
1973	FEDERAL GOVERNMENT	21,780	27%	\$ 62,756	27%
	STATE/LOCAL GOV'T.	2,995	4%	10,639	5%
	ACADEMIA	13,071	16%	28,679	13%
	INDUSTRY	24,430	30%	67,360	30%
	INDIVIDUAL	5,109	6%	17,143	7%
	NON-U.S.	8,497	11%	28,154	12%
	UNCATEGORIZED	5,189	6%	13,311	6%
	TOTAL		81,071	100%	\$ 288,042
1974	FEDERAL GOVERNMENT	28,493	18%	\$ 87,156	16%
	STATE/LOCAL GOV'T.	2,534	2%	10,920	2%
	ACADEMIA	18,611	12%	63,964	12%
	INDUSTRY	35,890	23%	114,140	22%
	INDIVIDUAL	17,266	11%	67,127	13%
	NON-U.S.	37,038	23%	120,499	23%
	UNCATEGORIZED	17,346	11%	64,708	12%
	TOTAL		157,178	100%	\$ 528,514
1975	FEDERAL GOVERNMENT	34,184	17%	\$ 136,883	18%
	NASA INVESTIGATORS	5,437	3%	12,192	1%
	STATE/LOCAL GOV'T.	1,921	1%	7,388	1%
	ACADEMIA	27,545	14%	106,374	14%
	INDUSTRY	45,476	23%	180,824	24%
	INDIVIDUAL	18,632	9%	98,753	13%
	NON-U.S.	47,066	24%	153,899	20%
	UNCATEGORIZED	17,393	9%	68,576	9%
TOTAL		197,654	100%	\$ 764,889	100%



HISTORICAL CUSTOMER PROFILE LANDSAT DIGITAL DATA

FISCAL YEAR	CATEGORY	ITEMS	ITEM %	DOLLARS	\$ %
1990	FEDERAL GOVERNMENT				
	USGS	157	2%	\$ 124,600	3%
	OTHER FEDERAL	4,134	62%	2,758,342	54%
	STATE/LOCAL GOV'T.	101	1%	82,600	2%
	ACADEMIA	248	4%	216,770	4%
	INDUSTRY	1,181	17%	1,048,408	21%
	INDIVIDUAL	6	0%	4,850	0%
	NON-U.S.	925	14%	836,810	16%
	TOTAL	6,752	100%	\$5,072,380	100%



HISTORICAL CUSTOMER PROFILE LANDSAT DIGITAL DATA

FISCAL YEAR	CATEGORY	ITEMS	ITEM %	DOLLARS	\$ %
1987	FEDERAL GOVERNMENT				
	USGS	182	2%	\$ 153,360	3%
	OTHER FEDERAL	4,216	54%	2,803,240	51%
	STATE/LOCAL GOV'T.	162	2%	128,670	2%
	ACADEMIA	340	4%	243,332	4%
	INDUSTRY	1,524	20%	1,082,350	20%
	INDIVIDUAL	27	0%	24,140	0%
	NON-U.S.	1,391	18%	1,085,580	20%
TOTAL		7,842	100%	\$5,520,672	100%
1988	FEDERAL GOVERNMENT				
	USGS	281	3%	\$ 199,970	4%
	OTHER FEDERAL	4,632	58%	3,140,940	54%
	STATE/LOCAL GOV'T.	68	1%	51,580	1%
	ACADEMIA	379	5%	276,500	5%
	INDUSTRY	1,585	20%	1,283,440	22%
	INDIVIDUAL	18	0%	17,000	0%
	NON-U.S.	1,029	13%	818,240	14%
TOTAL		7,992	100%	\$5,787,670	100%
1989	FEDERAL GOVERNMENT				
	USGS	272	4%	\$ 182,790	3%
	OTHER FEDERAL	3,701	50%	2,522,190	46%
	STATE/LOCAL GOV'T.	96	1%	72,480	1%
	ACADEMIA	286	4%	239,640	5%
	INDUSTRY	1,814	25%	1,540,350	28%
	INDIVIDUAL	23	0%	20,610	0%
	NON-U.S.	1,182	16%	953,860	17%
TOTAL		7,374	100%	\$5,531,920	100%

HISTORICAL CUSTOMER PROFILE LANDSAT DIGITAL DATA

FISCAL YEAR	CATEGORY	ITEMS	ITEM %	DOLLARS	\$ %
1983	FEDERAL GOVERNMENT	995	30%	\$ 375,265	28%
	STATE/LOCAL GOV'T.	154	5%	61,510	5%
	ACADEMIA	286	9%	108,020	8%
	INDUSTRY	952	29%	407,810	30%
	INDIVIDUAL	9	0%	6,230	0%
	NON-U.S.	883	27%	400,350	29%
	TOTAL		3,279	100%	\$1,359,185
1984	FEDERAL GOVERNMENT	1,474	48%	\$ 553,240	35%
	STATE/LOCAL GOV'T.	73	2%	50,950	3%
	ACADEMIA	291	10%	80,125	5%
	INDUSTRY	601	20%	493,075	31%
	INDIVIDUAL	28	1%	15,180	1%
	NON-U.S.	575	19%	398,305	25%
	TOTAL		3,042	100%	\$1,590,875
1985	FEDERAL GOVERNMENT	4,135	62%	\$1,300,390	39%
	STATE/LOCAL GOV'T.	120	2%	105,560	3%
	ACADEMIA	209	3%	142,085	4%
	INDUSTRY	1,484	22%	1,227,680	36%
	INDIVIDUAL	22	0%	16,960	1%
	NON-U.S.	734	11%	579,760	17%
	TOTAL		6,704	100%	\$3,372,435
1986	FEDERAL GOVERNMENT				
	USGS	166	3%	\$ 133,110	3%
	OTHER FEDERAL	4,069	57%	2,549,310	52%
	STATE/LOCAL GOV'T.	61	1%	37,890	1%
	ACADEMIA	216	3%	136,810	3%
	INDUSTRY	1,416	20%	1,154,685	24%
	INDIVIDUAL	84	1%	31,030	0%
	NON-U.S.	1,088	15%	833,465	17%
TOTAL		7,100	100%	\$4,876,300	100%

HISTORICAL CUSTOMER PROFILE LANDSAT DIGITAL DATA

FISCAL YEAR	CATEGORY	ITEMS	ITEM %	DOLLARS	\$ %
1979	FEDERAL GOVERNMENT	719	24%	\$ 117,250	21%
	STATE/LOCAL GOV'T.	25	1%	3,900	1%
	ACADEMIA	406	14%	75,800	14%
	INDUSTRY	752	25%	142,600	26%
	INDIVIDUAL	49	2%	9,200	2%
	NON-U.S.	1,031	34%	194,950	36%
	TOTAL		2,982	100%	\$ 543,700
1980	FEDERAL GOVERNMENT	622	15%	\$ 114,960	14%
	STATE/LOCAL GOV'T.	91	2%	18,450	2%
	ACADEMIA	275	7%	52,900	6%
	INDUSTRY	1,256	30%	249,170	31%
	INDIVIDUAL	26	1%	5,050	1%
	NON-U.S.	1,869	45%	368,700	46%
	TOTAL		4,139	100%	\$ 809,230
1981	FEDERAL GOVERNMENT	822	19%	\$ 146,700	17%
	STATE/LOCAL GOV'T.	293	7%	58,600	7%
	ACADEMIA	278	6%	54,250	6%
	INDUSTRY	1,602	37%	318,700	38%
	INDIVIDUAL	19	0%	3,800	1%
	NON-U.S.	1,337	31%	264,050	31%
	TOTAL		4,351	100%	\$ 846,100
1982	FEDERAL GOVERNMENT	1,259	25%	\$ 294,510	24%
	STATE/LOCAL GOV'T.	328	7%	71,600	6%
	ACADEMIA	293	6%	76,750	6%
	INDUSTRY	1,770	36%	451,700	36%
	INDIVIDUAL	53	1%	14,800	1%
	NON-U.S.	1,271	25%	340,800	27%
	TOTAL		4,974	100%	\$1,250,160

HISTORICAL CUSTOMER PROFILE LANDSAT DIGITAL DATA

FISCAL YEAR	CATEGORY	ITEMS	ITEM %	DOLLARS	\$ %
1975	FEDERAL GOVERNMENT	162	22%	\$ 32,400	22%
	NASA INVESTIGATORS	19	3%	3,800	3%
	STATE/LOCAL GOV'T.	48	7%	9,600	7%
	ACADEMIA	182	25%	35,680	25%
	INDUSTRY	195	27%	38,880	27%
	INDIVIDUAL	11	1%	2,200	1%
	NON-U.S.	108	15%	20,760	14%
	UNCATEGORIZED	4	0%	800	1%
	TOTAL	729	100%	\$144,120	100%
1976 (15 MONTHS)	FEDERAL GOVERNMENT	777	24%	\$ 77,173	13%
	NASA INVESTIGATORS	611	19%	122,200	21%
	STATE/LOCAL GOV'T.	4	0%	800	0%
	ACADEMIA	331	10%	66,200	12%
	INDUSTRY	757	23%	151,400	26%
	INDIVIDUAL	47	1%	9,400	2%
	NON-U.S.	766	23%	153,200	26%
	UNCATEGORIZED	6	0%	1,200	0%
	TOTAL	3,299	100%	\$581,573	100%
1977	FEDERAL GOVERNMENT	383	20%	\$ 70,609	19%
	NASA INVESTIGATORS	177	9%	35,400	9%
	STATE/LOCAL GOV'T.	29	2%	5,800	2%
	ACADEMIA	182	10%	36,400	10%
	INDUSTRY	611	32%	122,200	33%
	INDIVIDUAL	16	1%	3,200	1%
	NON-U.S.	489	26%	97,800	26%
		TOTAL	1,887	100%	\$371,409
1978	FEDERAL GOVERNMENT	1,025	36%	\$169,000	32%
	NASA INVESTIGATORS	40	1%	8,000	1%
	STATE/LOCAL GOV'T.	50	2%	10,000	2%
	ACADEMIA	256	9%	51,200	10%
	INDUSTRY	826	29%	165,300	31%
	INDIVIDUAL	13	0%	2,600	0%
	NON-U.S.	643	23%	128,600	24%
		TOTAL	2,853	100%	\$534,700

SECTION III.

EDC ARCHIVES AND DATA BASES

EROS DATA CENTER ARCHIVES AND DATA BASES

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

As of the end of fiscal year 1990, the Data Center archived over 6.6 million frames of USGS photographic data and over 18,000 tapes containing USGS digital data. In addition, EDC archived nearly 2.8 million frames of photographic Landsat data and 106,000 tapes of digital Landsat data. Finally, the International Landsat Data Base maintained by EDC for NOAA/EOSAT referenced over 1,900,000 scenes of Landsat data held by foreign ground stations.

DATA ARCHIVE REPORT

FISCAL YEAR 1990

USGS PHOTOGRAPHIC DATA ARCHIVED AT EDC

AERIAL PHOTOGRAPHY		
SOURCE	ROLLS	FRAMES
US Geological Survey	17,144	2,553,857
NAPP	5,493	890,389
Bur. of Land Management	625	124,992
Bur. of Reclamation	301	60,181
National Park Service	77	12,766
Bur. of Indian Affairs	37	7,421
TOTAL DEPT. OF INTERIOR	23,677	3,649,606
Army Map Service	1,680	213,873
US Air Force	3,377	329,710
US Navy	6,310	430,789
Corps of Engineers	83	22,931
TOTAL DEPT. OF DEFENSE	11,450	997,303
Ames Research Center	3,833	520,804
Johnson Space Center	7,622	1,009,791
Other	1,413	125,427
TOTAL NASA	12,868	1,656,022
OTHER SOURCE AGENCIES	1,750	279,502
TOTAL AERIAL PHOTOGRAPHY	49,745	6,582,433

SATELLITE PHOTOGRAPHY		
SOURCE	ROLLS	FRAMES
SKYLAB	634	44,845
APOLLO/GEMINI/APOLLO-SOJUZ	127	18,369
SHUTTLE (LFC 8 ROLLS)	638	63,150
TOTAL SATELLITE PHOTOGRAPHY	1,399	126,364



DATA ARCHIVE REPORT

FISCAL YEAR 1990

USGS DIGITAL DATA ARCHIVED AT EDC

FILM SOURCE	MAGNETIC TAPES
AERIAL IMAGE DATA	
NASA Data	
TMS 8-Channel Data	591
TMS 12-Channel Data	413
TIMS 6-Channel Data	161
M2S 11-Channel Data	77
AOCI 10-Channel Data	16
National Park Service	94
Side-Looking Airborne Radar (SLAR)	1,085
TOTAL	2,437
SATELLITE IMAGE DATA	
AVHRR	
EDC-HRPT Data	4,843
LAC Data Received via DOMSAT	6,230
LAC Data Received From Other Sources	57
Federally Owned Landsat Data (FOLD)	3,296
SPOT Data	270
Department of Defense MSI Data	326
TOTAL	15,022
NDCDB DATA	
Digital Elevation Model (DEM)	76
1:2 Million Digital Line Graph (DLG)	8
TOTAL	84
EARTH SCIENCE DATA	
National Uranium Resource Evaluation(NURE)	972
Geophysical Research Program	9
TOTAL	981
TOTAL DIGITAL HOLDINGS	18,524

DATA ARCHIVE REPORT

FISCAL YEAR 1990

LANDSAT DATA ARCHIVED AT EDC

PHOTOGRAPHIC DATA	ROLLS	FRAMES
MSS 70 MM Film, Landsat 1,2,3	7,708	1,342,187
MSS 9" B&W film	9,175	1,240,284
TM 9" B&W Film	2,968	177,118
MSS Color Composites	N/A	18,095
TM Color Composites	N/A	1,866
TOTAL	19,851	2,779,550
DIGITAL DATA	1/2" Mag. Tapes	HDT's
MSS	43,573	28,039
TM	34,568	
TOTAL	78,141	

LANDSAT DATA REFERENCED IN EDC LANDSAT DATA BASE

LOCATION	SCENES
DATA HELD IN U.S. BY EOSAT AND/OR EDC	
MSS/RBV	765,563
TM	164,738
TOTAL	930,301
DATA HELD BY FOREIGN GROUND STATIONS	
Argentina	10,790
Australia	189,726
Brazil	85,889
Canada	508,847
Earthnet (Europe)	469,853
Italy	424,056
Japan	149,731
Pakistan	7,839
South Africa	59,279
Spain	19,990
TOTAL	1,926,000



DATA ARCHIVE REPORT

FISCAL YEAR 1990

SUMMARY OF DATA ARCHIVED AT EDC

PHOTOGRAPHIC DATA	FRAMES
AERIAL	6,582,433
SATELLITE	126,364
LANDSAT	<u>2,779,550</u>
TOTAL	9,488,347

DIGITAL DATA	MAGNETIC TAPES	HDT's
AERIAL IMAGE DATA	2,437	---
SATELLITE	15,022	---
NDCDB	84	---
EARTH SCIENCE DATA	981	---
LANDSAT	<u>78,141</u>	<u>28,039</u>
TOTAL	96,665	28,039

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