



Economic Resource Impact Statement

Fiscal Year 1990



Charleston AFB
South Carolina

FOREWORD

The economic impact of Charleston Air Force Base (CAF B) on the Charleston, Dorchester, and Berkeley counties of South Carolina is amassed from financial information contained in CAF B force structure, program data, capital assets, manpower, value of resources, payroll, local contracts and construction projects. However, in nonfinancial terms, CAF B also impacts the community through the countless hours of volunteer work by our personnel who are involved with charities, associations, and other civic activities.

This document describes the mission of the 437th Military Airlift Wing (437 MAW) and its tenant units. In a nutshell, it shows CAF B as an integrated part of the community in the "Lowcountry."

This publication is prepared annually by the 437 MAW Cost Analysis Branch, Comptroller Squadron. Comments, questions, and requests for additional information are welcomed. Our address is 437 MAW/ACC, Charleston AFB SC 29404.



CHARLESTON
AIR FORCE BASE

ECONOMIC RESOURCE IMPACT
STATEMENT

CONTENTS

Section 1--Base Organizations	1
Section 2--Force Structure	3
Section 3--Capital Assets	4
Section 4--Value of Resources	6
Section 5--Personnel	8
Section 6--Gross Payroll	9
Section 7--Contracts and Expenditures	10
Section 8--Economic Impact and Jobs Created	11
Distribution	15

SECTION 1
BASE ORGANIZATIONS

Charleston Air Force Base--FY90

437th Military Airlift Wing (MAC)

Wing Commander's Staff

Vice Commander/Inspector General
Executive Officer
Protocol Officer
Senior Enlisted Advisor
Historian
Safety
Public Affairs

Deputy Commander for Operations

17th Military Airlift Squadron
20th Military Airlift Squadron
41st Military Airlift Squadron
76th Military Airlift Squadron
Airlift Control Squadron

Deputy Commander for Maintenance

Avionics Maintenance Squadron
Field Maintenance Squadron
Organizational Maintenance Squadron

Deputy Commander for Air Transportation

Aerial Port Squadron

Deputy Commander for Resource Management

Comptroller Squadron
Supply Squadron
Transportation Squadron
Contracting Division
Logistics Plans Division

Deputy Commander for C-17

Maintenance
Operations

Combat Support Group

Civil Engineering Squadron
Mission Support Squadron
Military Personnel Division
Civilian Personnel Division
Information Management Division
Social Actions
Security Police Squadron
Services Squadron
Air Base Operability Division
Morale, Welfare, and Recreation Division
Staff Judge Advocate

Chaplain
Family Support Center

USAF Clinic

TENANTS

1968th Communications Squadron (AFCC)

Det 3, 15th Weather Squadron (MAC)

Det 6, 1600th Management Engineering Squadron (MAC)

Det 7, 1361st Audiovisual Squadron (MAC)

Det 205, Air Force Commissary Service

Det 317, 3754th Field Training Squadron (ATC)

Det 705, Air Force Area Audit Office (AFAA)

Det 719, Air Force Office of Special Investigations

Area Defense Counsel

Army and Air Force Exchange Service

Defense Courier Station--Charleston (MAC)

21st Air Force Leadership School (MAC)

Reserve Components

315th Military Airlift Wing (USAFR)

300th Military Airlift Squadron

701st Military Airlift Squadron

707th Military Airlift Squadron

315th Airlift Control Flight

Avionics Maintenance Squadron

Field Maintenance Squadron

Organizational Maintenance Squadron

Combat Support Group

Civil Engineering Squadron

Communications Squadron

Security Police Flight

38th Aerial Port Squadron

51st Aerial Port Squadron

81st Aerial Port Squadron

315th Aerial Port Squadron

315th Clinic

31st Aeromedical Evacuation Squadron

Det 1, 107th Fighter Interceptor Group (NGB--New York ANG)

SECTION 2
FORCE STRUCTURE

Charleston AFB--FY90

<u>Activity</u>	<u>Aircraft Type</u>	<u>Authorized Aircraft</u>
MAC Aircraft		
437 MAW & 315 MAW	C-141B	58
Tenant Aircraft		
Det 1, 107 FIG	F-4D	3
	TOTALS	61

SECTION 3
CAPITAL ASSETS

Charleston AFB--FY90

LAND (Acres)

Public Domain	
Fee Owned	5,377
Easement, Right of Way	699
Leased	170
Lesser Interests (Licenses and Permits)	<u>10</u>
TOTAL	6,256

RUNWAYS

	<u>Width</u>	<u>Length</u>
Southeast/Northwest (15/33)	200'	9,000'
Northeast/Southwest (03/21)	150'	7,000'
North Field * (09/27)	150'	5,000'
North Field * (05/23)	500'	10,000'
* At North, SC		

FLIGHT LINE ACTIVITIES

Total (Sq Ft for all areas)	11,016,423
-----------------------------	------------

BUILDINGS

	<u>Number</u>	<u>Sq Ft</u>
Industrial	110	1,271,096
Medical	2	80,795
Warehouse	55	405,293
Recreational	46	525,373
Dormitory	15	350,589
Administrative	37	450,868
Military Family Housing (MFH)	977	1,138,639
Educational & Training	<u>12</u>	<u>149,741</u>
Total	1,254	4,372,394

MILITARY FAMILY HOUSING (MFH)

	<u>Number</u>	<u>Sq Ft</u>
On Base:		
2 Bedroom	208	211,720
3 Bedroom	608	709,848
4 Bedroom	139	190,162
Off Base:		
3 & 4 Bedroom	22	26,909
Total Housing Units	977	1,138,639
Mobile Housing Pads	75	

DORMITORY QUARTERS

	<u>Sq. Ft.</u>
Airman & NCO	306,865
Visiting Airmen Quarters	87,505
Visiting Officer Quarters	63,496
Temporary Lodging Facilities	<u>20,453</u>
Total	478,319

COMPUTERS

Total Computers and Terminals	1,010
-------------------------------	-------

SECTION 4
VALUE OF RESOURCES AND EXPENDITURES

Charleston AFB--FY90

WEAPON SYSTEMS

	<u>Dollars</u>
Aircraft (Total Authorized) (Includes aircraft from 107 FIG)	\$ 2,014,600,000

CAPITAL ASSETS

	Replacement \$	Investment \$
Land		\$ 1,739,347
Runways	52,186,000	11,154,000
Buildings	376,051,101	<u>96,803,442</u>
Total		\$ 109,696,789

EQUIPMENT

In-Use Medical Equipment	\$	1,846,795
Non-Appropriated Fund (NAF)		456,444
Aircraft Ground Equipment (AGE)		5,301,468
Other Equipment (Base Supply)		<u>61,678,227</u>
Total	\$	69,282,934

INVENTORIES

Stock Funds		
Medical/Dental	\$	726,379
General Support		8,433,900
Systems Support		3,156,959
Aviation Support		2,040,236
Ground Fuels		<u>20,565</u>
Total Stock Fund	\$	14,378,039
Non-Stock Fund	\$	57,338,987
Sales Outlets		
Base Exchange	\$	2,526,628
Commissary		1,715,380
Non-Appropriated Fund		<u>255,863</u>
Total Sales Outlets	\$	4,497,871
Total All Inventories	\$	76,214,897

RETAIL SALES

Base Exchange	\$	17,856,981
Commissary		30,592,675
Non-Appropriated Activities		<u>3,170,349</u>
Total	\$	51,620,005

BASE OPERATIONS AND MAINTENANCE

	\$	59,125,964
(Includes both Host and Tenant Organizations)		
(Excluding Civilian Pay.)		

AIRLIFT SERVICE INDUSTRIAL FUND
(Excluding Civilian Pay.)

\$ 31,151,300

SECTION 5
SUMMARY OF PERSONNEL BY CLASSIFICATION AND HOUSING LOCATION

Charleston AFB--FY90

APPROPRIATED FUND MILITARY

	<u>Living On Base</u>	<u>Living Off Base</u>	<u>Total</u>
Permanent Party	1,991	1,918	3,909
Dependents	<u>2,377</u>	<u>2,838</u>	<u>5,215</u>
Total	4,368	4,756	9,124

APPROPRIATED FUND CIVILIAN

General Schedule	723
Federal Wage System	611
Other (Summerhire)	<u>8</u>
Total	1,342

NON-APPROPRIATED FUND, CONTRACT, AND PRIVATE BUSINESS

Non-Appropriated Fund (AAFES/NAF) (FTE)	477
Contract (FTE)	27
Private Business (FTE)	<u>42</u>
Total	546

AIR FORCE RETIREES (All Services within EIR 11,305) 3,467
(Of the 39,850 military retirees in South Carolina,
13,534 are Air Force)

RESERVE FORCES 3,605

(FTE = Full Time Equivalent)

SECTION 6
SUMMARY OF GROSS PAYROLL BY CLASSIFICATION AND HOUSING LOCATION

Charleston AFB--FY90

APPROPRIATED FUND MILITARY

	Living On Base	Living Off Base	<u>Total</u>
Permanent Party	\$30,366,761	\$68,666,834	\$99,033,595

APPROPRIATED FUND CIVILIANS

General Schedule	\$ 21,275,047
Federal Wage Schedule	<u>17,783,237</u>
Total	\$ 39,058,284

NON-APPROPRIATED FUND AND OTHER CIVILIANS

Non-Appropriated Fund (AAFES/NAF)	\$ 5,137,985
Contract	790,000
Private Business	<u>365,000</u>
Total	\$ 6,292,985

AIR FORCE RETIREES (All Services \$144,924,000) \$ 44,692,000

RESERVE FORCES \$ 18,144,218

SECTION 7
SUMMARY OF CONSTRUCTION, CONTRACTS, AND EXPENDITURES
FOR MATERIALS, EQUIPMENT, AND SUPPLIES
IN FISCAL YEAR 1990

CONSTRUCTION

	DOLLARS
Military Construction Program	\$ 3,000,000
Non-Appropriated Fund	88,800
Military Family Housing	715,400
Operations and Maintenance	2,969,000
ASIF	2,433,400
Hurricane Recovery	22,883,693
Other	<u>2,439,300</u>
Total	\$ 34,529,593

CONTRACTS AND PROCUREMENT

(Services, Materials, Equipment, and Supplies)

Service Contracts	
Buildings and Grounds	\$ 272,493
Telecommunications	104,152
Utilities and Energy	4,832,492
Other Services (Not Included Elsewhere) *	<u>5,411,765</u>
Total	\$ 10,620,902
Commissary and Base Exchange, Education, Health, and TDY Expenditures	
Commissary and Base Exchange	\$ 4,124,072
Education Impact Funds	833,594
Health (CHAMPUS, Government Cost Only)	4,670,765
Temporary Duty and Lodging Allowance (Contract Quarters)	<u>2,075,940</u>
Total	\$ 11,704,371
Other Materials, Equipment, and Supplies Procured	\$ 8,051,870

SECTION 8

ERIS ECONOMIC IMPACT CALCULATION PROCEDURE
Charleston AFB
FY90

ERIS Table Number	Variable Name	A. Annual Amount	B. Adjustment Factors	C. (A x B) Local Amount	D. ERIS Variable
<hr/>					
I.	Appropriated Fund (AF) Payroll		APC		
	9 Military on base	\$30,366,761	0.548	\$16,640,985	Y MON
	9 Military off base	\$69,666,834	0.689	\$48,000,449	Y MOFF
	9 Civilian	\$39,058,284	0.709	\$27,692,323	Y CS
II.	Non-Appropriated Fund (NAF) and Other Civilian Payroll				
	9 Contract civilian, n.e.i.	\$790,000	0.709	\$560,110	Y CC
	9 Other civilian, n.e.i.	\$365,000	0.709	\$258,785	Y CO
	SUBTOTAL MIL. & CIV. PAYROLL	\$140,246,879			AFPAY
	9 Civilian NAF and AAFES	\$5,137,985	0.709	\$3,642,831	Y CX
	Estimated payroll expenditures off-base in EIR (Y MON + Y MOFF + Y CS + Y CC + Y CO + Y CX)			\$96,795,483	RPAY
III.	Construction and services		Labor Share x APC		
	10.0 Total Construction	\$34,529,593	0.384 X 0.709	\$9,400,889	Y CON
	10.0 Total Services	\$5,209,137	0.524 X 0.709	\$1,935,278	Y S
	10.0 Commissary and AAFES	\$4,124,072	1.000	\$4,124,072	C
	10.0 Education	\$833,594	1.000	\$833,594	E
	10.0 Health	\$4,670,765	1.000	\$4,670,765	H
	10.0 TDY and TLA	\$2,075,940	1.000	\$2,075,940	T
	TOTAL CONSTR. & SERVICES	\$51,443,101			AFCONS
	Estimated Labor and Service Expenditure off-base in EIR (Y CON + Y S + C + E + H + T)			\$23,040,538	RCONS
IV.	Materials, Equipment, and Supplies (MES)		MES Share		
	10.0 Total Construction	\$34,529,593	0.600	\$20,717,756	M C
	10.0 Total Services	\$5,209,137	0.183	\$953,272	M S
	10.0 Other materials, equipment, and supplies in EIR, n.e.i.	\$5,411,765	1.000	\$5,411,765	AFMAT
	Estimated materials and equipment expenditures offbase in the EIR (M C + M S + AFMAT)			\$27,082,793	RMAT
V.	Total AF Base Expenditures (AFPAY + AFCONS + AFMAT)			\$197,101,745	AFTOT
VI.	Total AF Base Expenditures in EIR (RPAY + RCONS + RMAT)			\$146,918,814	RTOT

ERIS ECONOMIC IMPACT CALCULATION PROCEDURE
 Charleston AFB
 FY90

PART 2: ERIS ECONOMIC IMPACT CALCULATION

1. Estimated total economic impact in the EIR of the AF installation's annual operation expenditures.

TEI EIR =	RTOT x	M
\$309,161,260	\$146,918,814	2.1043

2. Secondary jobs created off base in EIR (Required computation and publish SJC):

SJC =	RPAY x	(M - 1)	RCONS x	M	RMAT x	M
	-----	+	-----	+	-----	-----
	P RS		P RS		P W	
2048	\$96,795,483	1.1043	\$23,040,538	2.1043	\$27,082,793	2.1043
	= -----	+	-----	+	-----	
	\$81,140		\$81,140		\$426,834	

3. Estimated total economic impact (inside and outside the EIR) of the base's annual operation expenditures.

TEI ALL =	AFTOT x	M AVG
\$551,884,886	\$197,101,745	2.800

4. Estimated secondary jobs (inside and outside the EIR) created by AF base operation expenditures:

EJOBS =	AFTOT /	P DOD
5462	\$197,101,745	\$36,085

MAVG	2.800	
PDOD	\$36,085	

ERIS ECONOMIC IMPACT CALCULATION PROCEDURE
 Charleston AFB
 FY90

 PART 3: SUMMARY OF JOBS SUPPORTED BY ANNUAL OPERATION EXPENDITURES

I.	Base appropriated funds employment:		
	Military	3909	MIL
	Civilian	1342	CIV
	Civilian, n.e.i.	27	
	Other civilian, n.e.i.	42	
II.	SJC employment from annualized base operation expenditures:		
	Total Job equivalents in U.S. (equation 4)	5462	EJOBS
	NAF and AAFES employment	477	NAFBX
	SJC off base within EIR (equation 2)	2048	SJC
	Job equivalents outside the EIR (EJOBS - NAFBX - SJC)	2937	JOBS OUT*
III.	Employment supported by annual expenditures to operate the base: (MIL + CIV + EJOBS + Civilian, n.e.i. + Other Civilian, n.e.i.)	10782	

WHAT IT ALL MEANS

Economic Impact and Jobs Created

The economic impact a military installation has on a local community is determined by capturing the annual totals of gross wages and salaries of all military and civilian employees, contract and service expenditures, and locally distributed educational impact aid funds. The methodology of estimating the local economic impact of Charleston Air Force Base (CAFB) upon the State of South Carolina, specifically the "Lowcountry," depends only on dollars actually paid during the 1990 fiscal year. Using this method, an estimated \$309,161,260 cash flow dollars were pumped into the Lowcountry area by CAFB in fiscal year 1990. These dollars are derived from the dollars that Charleston AFB spent directly in the area, so for every dollar the AFB spent, two dollars and ten cents worth of economic impact (or cash flow) is felt by the Lowcountry. To best illustrate this effect, think of when you buy groceries, then the market pays their employees who in turn pay their rent and so on. Those dollars and the direct employment (excluding military assigned to CAFB) of CAFB added 2,048 secondary employment jobs plus 1,888 direct employment jobs to the Lowcountry.

As employees of a base purchase goods and services, secondary jobs are created and wages are paid, which in turn generates the need for more goods and services, further accelerating the economy. This acceleration process brought about a total economic impact figure of \$551,884,886 (The total economic impact, which is the national effect, equation states that for every dollar spent by CAFB two dollars and eighty cents flow throughout the economy) flowing into the economy and also resulted in the creation of 6,873 jobs (again excluding the military assigned to CAFB) in and out of the local area.

MAC Proud

*Support America Can Always
Count On*

