

AIR FORCE MAGAZINE'S GUIDE TO USAF BASES AT HOME AND ABROAD

(Includes civilian airports and airfields of other military services that provide basing for USAF units and activities.)

Altus AFB, Okla. 73521; within Altus city limits. Phone (405) 482-8100; AUTOVON 855-1110. MAC base. 443d Military Airlift Wing; training for C-141 and C-5 crews; basic flight engineer course; 340th Air Refueling Gp. (SAC); 2002d Communications Sqdn. (AFCC). Base activated Jan. 1942, inactivated May 1945, reactivated Jan. 1953. Area 4,113 acres. Altitude 1,376 ft. Military 3,313; civilians 627. Payroll \$53.6 million. Housing: 163 officer; 637 NCO; 12 transient (4 VOQ, 4 VAQ, 4 transient). 30-bed hospital.

Andersen AFB, Guam 96334; 16.8 mi. N of Agana. Phone (671) 366-1110; AUTOVON 343-1110. SAC base. Hq. 3d Air Div., 43d Strategic Wing. Base activated as North Field, 1945; renamed Oct. 7, 1949, in memory of Brig. Gen. James Roy Andersen, reported missing on a flight from Guam to Hawaii, Feb. 26, 1945. Area 20,500 acres, including off-base facilities. Altitude 525 ft. Military 3,926; civilians 956. Payroll \$59.5 million. Housing: shared officer and NCO 1,754; transient 206. Clinic, outpatient care only. 63-bed hospital at Naval Regional Medical Center, Agana, Guam.

Andrews AFB, Md. 20331; 11 mi. SE of Washington. D. C. Phone (301) 981-9111; AUTOVON 858-1110. MAC base. 1776th Air Base Wing; Hq. Air Force Systems Command; 76th Airlift Div.; 89th Military Airlift Wing; 113th Tactical Fighter Wing (ANG); 459th Tactical Airlift Wing (AFRES); 2045th Communications Gp. (AFCC); Det. 11. 1361st Audiovisual Sqdn. Base activated June 1943; named for Lt. Gen. Frank M. Andrews, military air pioneer, WW II commander, European theater, killed in aircraft accident May 3, 1943, in Iceland. Area 4,216 acres. Altitude 279 ft. Military 5,360; civilians 3,236. Payroll \$167.8 million. Housing: 392 officer; 1,696 NCO; 273 transient (incl. 82 temp. living quarters for incoming personnel. 141 VOQ, 50 TAQ). 250-bed hospital.

Arnold AFS, Tenn. 37389; approx. 7 mi. SE of Manchester. Phone (615) 455-2611; AUTOVON 882-1520. AFSC station; site of Arnold Engineering Development Center, free world's largest complex of wind tunnels, jet and rocket engine test cells, space simulation chambers, and hyperballistic ranges, which support the acquisition of new aerospace systems by conducting research, development, and evaluation testing for USAF, other services, and government agencies. Base activated Jan. 1, 1950; named for Gen. H. H. "Hap" Arnold, wartime Chief of the AAF. Area 40,118 acres. Altitude 950 to 1,150 ft. Military 141; civilians 3,180. Payroll \$87 million. Housing: 24 officer; 16 NCO; 48 transient. Dispensary.

Barksdale AFB, La. 71110; in Bossier City. Phone (318) 456-2252; AUTOVON 781-1110. SAC base. Hq. 8th Air Force; 2d Bomb Wing. Base is also site of 917th Tactical Fighter Gp. (AFRES), flying A-10s. In spring 1981 it became first USAF installation to receive the KC-10 Extender tanker aircraft. Base named for Lt. Eugene H. Barksdale, WW I airman killed in Aug. 1926, in crash near Wright Field, Ohio. Area 22,000 acres (20,000 acres reserved for recreation). Altitude 167 ft. Military 5,401; civilians 1,008. Payroll \$103.3 million. Housing: 169 officer; 864 NCO; 29 transient. 65-bed hospital.

Beale AFB, Calif. 95903; 13 mi. E of Marysville. Phone (916) 634-3000; AUTOVON 368-1110. SAC base. 14th Air Div.; 9th Strategic Recon Wing; 100th Air Refueling Wing; 1883d Communications Sqdn. (AFCC). Beale is the only USAF base having SR-71 and U-2 reconnaissance aircraft. Originally US Army's Camp Beale, became AF installation in

Nov. 1948; became AFB in Dec. 1951. Named for Brig. Gen. E. F. Beale, Indian agent in California prior to Civil War. Area 22,944 acres. Altitude 113 ft. Military 4,170; civilians 560. Payroll \$68.9 million. Housing: 395 officer; 1,342 NCO; 45 transient. 30-bed hospital.

Bergstrom AFB, Tex. 78743; 7 mi. SE of downtown Austin. Phone (512) 479-4100; AUTOVON 685-1110. TAC base. Hq. 12th Air Force; Hq. 10th Air Force; 67th Tactical Recon Wing (host) with RF-4C operations; 602d Tactical Air Control Wing; 924th Tactical Airlift Gp. (AFRES) with C-130B operations; TAC NCO Academy West. Base activated Sept. 22, 1942; named for Capt. John A. E. Bergstrom, first Austin serviceman killed in WW II, died Dec. 8, 1941, at Clark Field, Philippines. Area 3,998 acres. Altitude 541 ft. Military 3,865; civilians 741. Payroll \$79.9 million. Housing: 92 officer; 612 NCO; 190 transient. 30-bed hospital.

Blytheville AFB, Ark. 72315; 4 mi. NW of Blytheville. Phone (501) 762-7000; AUTOVON 637-1110. SAC base. 42d Air Div.; 97th Bomb Wing. Base activated June 1942; inactivated Feb. 1947; reactivated Aug. 1955. Area 4,805 acres. Altitude 254 ft. Military 2,696; civilians 366. Payroll \$52.1 million. Housing: 203 officer; 727 NCO; 46 transient. 25-bed hospital.

Bolling AFB, D. C. 20332; 3 mi. S of US Capitol. Phone (202) 545-6700; AUTOVON 227-0101. MAC base. 1100th Air Base Wing; Air Force Office of Scientific Research (AFSC); Air Reserve Personnel Center Operating Location; Air Force Chief of Chaplains; US Air Force Office of History. Activated Oct. 1917; named for Col. Raynal C. Bolling, assistant chief of air service, killed in France during WW I. Area 604 acres. Altitude 16 ft. Military 1,562; civilians 1,157. Payroll \$38 million. Housing: 296 officer; 1,100 NCO; 168 transient (including 69 VAQ, 84 VOQ, 15 guest quarters).

Brooks AFB, Tex. 78235; 7 mi. SE of San Antonio. Phone (512) 536-1110; AUTOVON 240-1110. AFSC base. Home of Aerospace Medical Div., USAF School of Aerospace Medicine; USAF Occupational and Environmental Lab, USAF Human Resources Lab; tenant units include the USAF Medical Service Center, a security squadron, and a communications group. Base activated Dec. 8, 1917; named for Cadet Sidney J. Brooks, Jr., killed Nov. 13, 1917, on his final solo flight before commissioning. Area 1,330 acres. Altitude 600 ft. Military 1,444; civilians 854. Payroll \$50 million. Housing: 70 officer; 100 NCO; 8 transient. Dispensary.

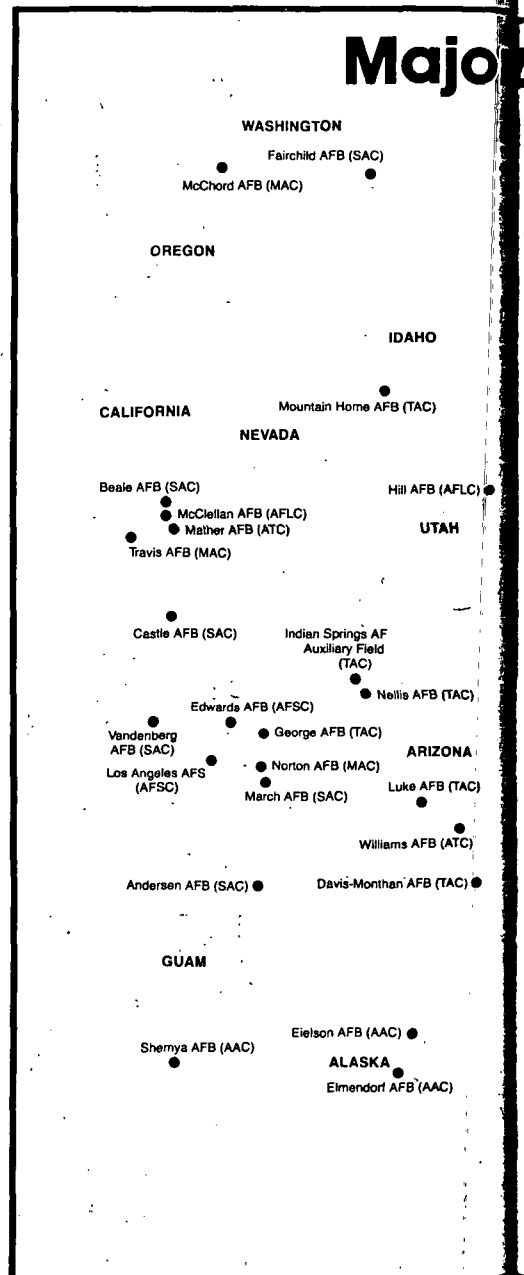
Cannon AFB, N. M. 88101; 7 mi. W of Clovis. Phone (505) 784-3311; AUTOVON 681-1110. TAC base. 27th Tactical Fighter Wing, F-111D fighter operations. Activated Aug. 1942; named for Gen. John K. Cannon, WW II commander of all Allied Air Forces in Mediterranean theater. Area 3,780 acres. Altitude 4,295 ft. Military 3,866; civilians 409. Payroll \$51.9 million. Housing: 149 officer; 863 NCO; 104 transient. 25-bed hospital.

Carswell AFB, Tex. 76127; 7 mi. WNW of downtown Fort Worth. Phone (817) 735-5000; AUTOVON 739-1110. SAC base. 19th Air Div.; 7th Bomb Wing (SAC); 301st Tactical Fighter Wing (AFRES). Activated Aug. 1942; named Jan. 30, 1948, for Maj. Horace S. Carswell, Jr., native of Fort Worth, WW II B-24 pilot and posthumous Medal of Honor recipient. Area 2,750 acres. Altitude 650 ft. Military 4,768; civilians 1,899. Payroll \$62 million. Housing: 128 officer; 679 NCO. 140-bed hospital.

Castle AFB, Calif. 95342; 8 mi. NW of Merced.

Phone (209) 726-2011; AUTOVON 347-1110. SAC base. 93d Bomb Wing. Conducts training of all SAC B-52G and H and KC-135 crews. Also houses 84th Fighter Interceptor Sqdn. (TAC). Activated Sept. 1941; named for Brig. Gen. Frederick W. Castle, WW II B-17 pilot and Medal of Honor recipient. Area 2,700 acres. Altitude 188 ft. Military 5,920; civilians 420. Payroll \$88.5 million. Housing: 90 officer; 844 NCO; 384 transient (incl. 104 VAQ, 276 VOQ, and 4 transient quarters). 30-bed hospital.

Chanute AFB, Ill. 61868; 14 mi. N of Champaign. Phone (217) 495-1110; AUTOVON 862-1110. ATC base. Chanute Technical Training Center provides training in missile and aircraft maintenance, fire



fighting, and weather. Chanute Technical Training Display Center is base museum. Base activated May 1, 1917; named for Octave Chanute, aeronautical engineer and glider pioneer who died in 1910. Area 2,125 acres. Altitude 735 ft. Military 7,500; civilians 1,800. Payroll \$102 million. Housing: 140 officer; 1,518 NCO; 8 transient. 55-bed hospital.

Charleston AFB, S. C. 29404; in North Charleston. Phone (803) 554-0230; AUTOVON 583-0111. MAC base. Joint-use airfield. 437th Military Airlift Wing and 315th MAW (AFRES Assoc.). Also 1968th Communications Sqdn.; Det. 1, 48th Fighter Interceptor Sqdn. (TAC); and Det. 7, 1361st Audiovisual Sqdn. Base activated June 1942; inactivated Feb. 1946, reactivated Aug. 1953. Area 3,772 acres. Altitude 45 ft. Military 7,081 (incl. AFRES); civilians 1,667. Payroll \$81 million. Housing: 142 officer; 813 NCO; 75 trailer spaces; 472 transient (150 VOQ, 322 VAQ). Dispensary.

Columbus AFB, Miss. 39701; 10 mi. NNW of Columbus. Phone (601) 434-7322; AUTOVON 742-1110. ATC base. 14th Flying Training Wing, undergraduate pilot training. Base activated in 1941 for pilot training. Area 4,606 acres. Altitude 214 ft. Military 2,792; civilians 522. Payroll \$46 million.

Housing: 228 officer; 592 NCO. 15-bed hospital.

Davis-Monthan AFB, Ariz. 85707; within city limits of Tucson. Phone (602) 748-3900; AUTOVON 361-1110. TAC base. Hq. 836th Air Div.; 355th Tactical Training Wing, A-10 combat crew training; 390th Strategic Missile Wing (Titan II) (SAC). Also site of AFLC's Military Aircraft Storage and Disposition Center. Base activated in 1927; named for two local aviation accident victims—1st Lt. Samuel H. Davis, killed Dec. 28, 1921; and 2d Lt. Oscar Monthan, killed Mar. 27, 1924. Area 11,000 acres. Altitude 2,705 ft. Military 5,405; civilians 1,302. Payroll \$92.1 million. Housing: 215 officer; 1,040 enlisted. 90-bed hospital.

Dover AFB, Del. 19901; 4 mi. SE of Dover. Phone (302) 678-7011; AUTOVON 455-1110. MAC base. 436th Military Airlift Wing and 512th MAW (AFRES Assoc.). Dover is largest air cargo port on East Coast. Base activated Dec. 1941; inactivated 1946, reactivated Feb. 1951. Area 3,600 acres. Altitude 28 ft. Military 5,084; civilians 1,384. Payroll \$88.6 million. Housing: 229 officer; 1,327 NCO; 297 transient. 30-bed hospital.

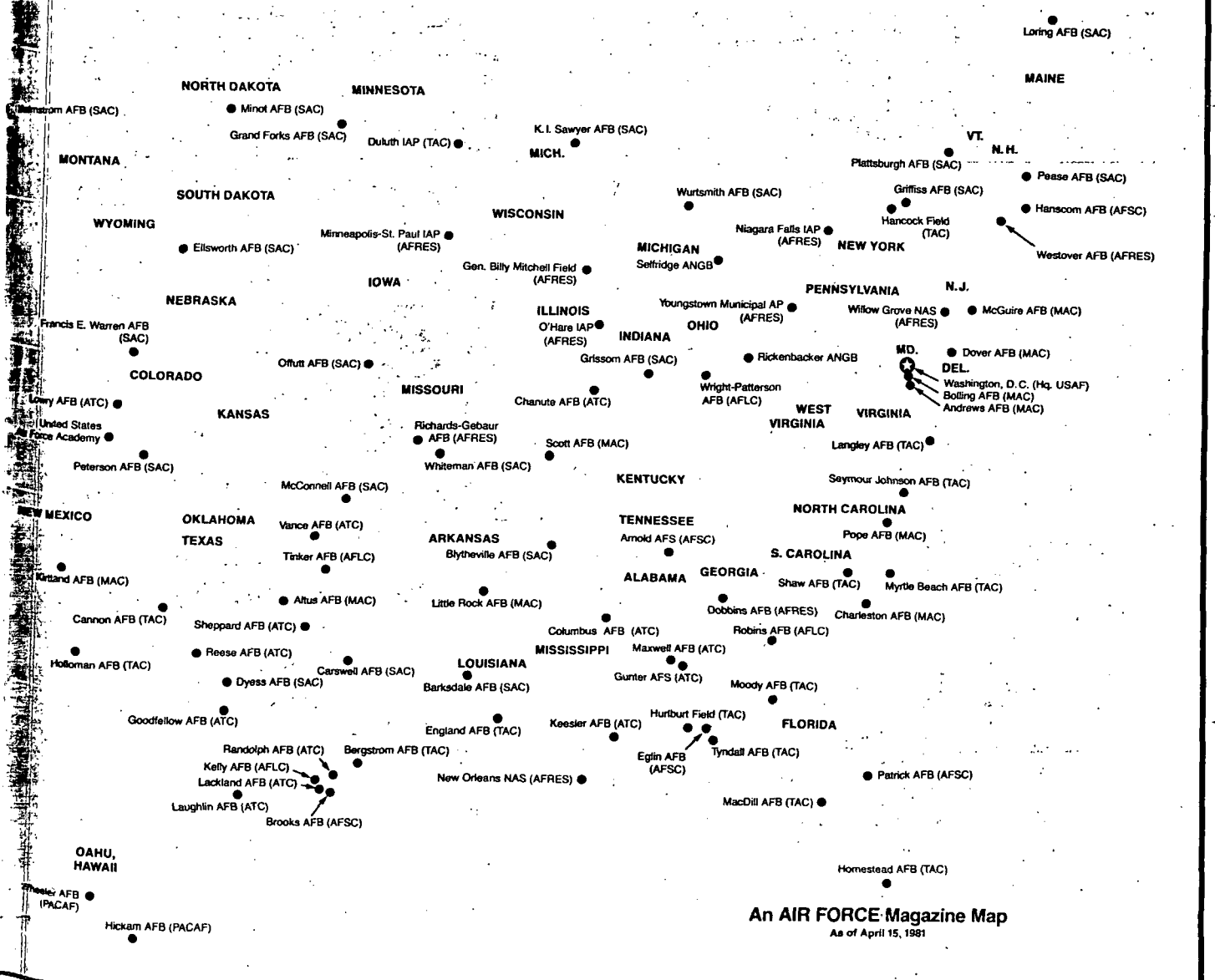
Duluth International Airport, Minn. 55814; 5 mi. NW of Duluth. Phone (218) 727-8211; AUTOVON 825-0011. TAC base. 23d NORAD Region; Hq. 23d

Air Div. (TAC); SAGE Control Center (NORAD); 4787th Air Base Gp. (TAC); 148th Tactical Recon Gp. (ANG). Activated Mar. 1951. Area 1,139 acres. Altitude 1,429 ft. Military 1,036; civilians 287. Payroll \$19 million. Housing: 70 officer; 361 military; 24 transient. Dispensary.

Dyess AFB, Tex. 79607; WSW border of Abilene. Phone (915) 696-0212; AUTOVON 461-1110. SAC base. 12th Air Div. and 96th Bomb Wing (SAC); 463d Tactical Airlift Wing (MAC); 1993d Communications Sqdn. (AFCC); 417th Field Training Det. (ATC). Base activated Apr. 1942; deactivated Dec. 1945; reactivated Abilene Air Base, Sept. 1955. In Mar. 1956 renamed for Lt. Col. William E. Dyess, WW II fighter pilot known best for his escape from a Japanese prison camp, killed in P-38 crash at Burbank, Calif., Dec. 1943. Area 6,058 acres. Altitude 1,789 ft. Military 4,913; civilians 442. Payroll \$94.8 million. Housing: 150 officer; 849 NCO; 124 transient. 40-bed hospital.

Edwards AFB, Calif. 93523; 20 mi. E of Rosamond. Phone (805) 277-1110; AUTOVON 350-1110. AFSC base. AF Flight Test Center. USAF Test Pilot School trains pilots and flight-test engineers. NASA Dryden Flight Research Center is concerned with the Space Shuttle, lifting bodies,

Active Air Force Installations in the US



and supersonic and transonic flight research. Other tenant units include US Army Aviation Engineering Flight Activity and USAF Rocket Propulsion Lab. Base activated Sept. 1933; named for Capt. Glen W. Edwards, killed June 5, 1948, in crash of YB-49 "Flying Wing" experimental bomber. Area 301,000 acres. Altitude 2,302 ft. Military 3,785; civilians 4,732. Payroll \$177 million. Housing: 658 officer; 3,380 NCO; 125 transient. 30-bed hospital.

Eglin AFB, Fla. 32542; 2 mi. SE of Valparaiso; 7 mi. NE of Fort Walton Beach. Phone (904) 881-6668; AUTOVON 872-1110. AFSC base. AF Armament Div.; AF Armament Lab; 3246th Test Wing; 39th Aerospace Rescue and Recovery Wing; 33d Tactical Fighter Wing; Tac Air Warfare Center; 919th Special Operations Gp. (AFRES); Air Force Armament Museum. Base activated in 1935; named for Lt. Col. Frederick I. Eglin, WW I flyer killed in aircraft accident, Jan. 1, 1937. Area 464,980 acres. Altitude 85 ft. Military 8,865; civilians, 4,400. Payroll \$227.1 million (includes AFRES). Housing: 322 officer; 2,014 NCO; 84 transient. 160-bed hospital.

Eielson AFB, Alaska 99702; 26 mi. SE of Fairbanks. Phone (907) 372-1181; AUTOVON (317) 377-1292. AAC base. 5010th Combat Support Gp. is host unit. Air defense, search and rescue for AAC; 6th Strategic Wing (SAC) tanker operations; communications for AFCC; Arctic Survival School (ATC). Activated Oct. 1944; named for Carl B. Eielson, Arctic aviation pioneer, died Nov. 1929. Area 35,000 acres (approx). Altitude 534 ft. Military 2,596; civilians 318. Payroll \$46.7 million. Housing: 148 officer; 1,015 NCO; 20 transient. Dispensary.

Ellsworth AFB, S. D. 57706; 11 mi. ENE of Rapid City. Phone (605) 342-2400; AUTOVON 747-1110. SAC base. 44th Strategic Missile Wing; 28th Bomb Wing. SAC postattack command and control system sqdn. Activated July 1954; named for Brig. Gen. Richard E. Ellsworth, killed Mar. 18, 1953, in crash of RB-36. Area 5,675 acres. Altitude 3,600 ft. Military 5,891; civilians 564. Payroll \$93.1 million. Housing: 414 officer; 1,482 NCO; 141 transient. 40-bed hospital.

Elmendorf AFB, Alaska 99506; bordering Anchorage. Phone (907) 752-1110; AUTOVON (317) 752-1110. AAC base. Hq. Alaskan Air Command; 21st Tactical Fighter Wing; NORAD Region Control Center; Rescue Coordination Center; 531st Aircraft Control and Warning Gp.; 18th Tactical Fighter Sqdn.; 43d Tactical Fighter Sqdn.; 1931st Communications Gp. (AFCC); 6981st Electronic Security Sqdn. (ESC); 616th Military Airlift Gp. (MAC); 17th Tactical Airlift Sqdn. (MAC); 71st Aerospace Rescue and Recovery Sqdn. (MAC); 11th Weather Sqdn. (MAC); plus varied US Army and Navy activities. 21st Combat Support Gp. (AAC) is host unit. Base activated July 1940; named for Capt. Hugh M. Elmendorf, killed Jan. 13, 1933, at Wright Field, Ohio, while flight-testing a new type of pursuit plane. Area 13,400 acres. Altitude 118 ft. Military 6,209; civilians 1,464. Payroll \$128.1 million. Housing: 356 officer; 1,839 NCO; 140 transient. 140-bed hospital.

England AFB, La. 71301; 5 mi. W of Alexandria. Phone (318) 448-2100; AUTOVON 683-1110. TAC base. 23d Tactical Fighter Wing. Converting to A-10 fighter operations from A-7D. Base activated Oct. 1942; named for Lt. Col. John B. England, WW II P-51 pilot and ace credited with 17.5 victories, killed Nov. 17, 1954, in France in F-86 crash. Area 2,282 acres. Altitude 89 ft. Military 3,142; civilians 567. Payroll \$53.2 million. Housing: 109 officer; 491 NCO; 44 transient. 40-bed hospital.

Fairchild AFB, Wash. 99011; 12 mi. WSW of Spokane. Phone (509) 247-1212; AUTOVON 352-1110. SAC base. 47th Air Div.; 92d Bomb Wing (SAC); 3636th Combat Crew Training Wing (ATC); 141st Air Refueling Wing (ANG); Det. 24, 40th Rescue and Weather Reconnaissance Wing (MAC); Det. 1, 4000th Aerospace Applications Gp. (SAC); and 2039th Communications Sqdn. (AFCC). Base activated Jan. 1942. Named for Gen. Muir S. Fair-

child, USAF Vice Chief of Staff at his death in 1950. Area 5,021 acres. Altitude 2,462 ft. Military 4,000; civilians 1,025. Payroll \$59.8 million for civilian and active-duty military and \$14.0 million for ANG. Housing: 502 officer; 1,079 NCO; transient incl. 60 VOQ and 62 VAQ, no family quarters. 45-bed hospital.

Francis E. Warren AFB, Wyo. 82001; adjacent to Cheyenne. Phone (307) 775-1110; AUTOVON 481-1110. SAC base. 4th Air Div.; 90th Strategic Missile Wing. Base activated July 4, 1867; under Army jurisdiction until 1947 when reassigned to USAF. Home of the first Atlas-D ICBM missile wing (1960-65); named for Francis Emory Warren, Wyoming senator and early governor. Base has 7,600 acres, plus 200 Minuteman III missile sites distributed over more than 15,000 sq. mi. Altitude 6,124 ft. Military 3,687; civilians 426. Payroll \$46.8 million. Housing: 211 officer; 620 NCO; 36 transient. 25-bed hospital.

George AFB, Calif. 92392; 6 mi. NW of Victorville. Phone (714) 269-1110; AUTOVON 353-1110. TAC base. Hq. 831st Air Div.; 35th and 37th TAC Fighter Wings; Home of TAC's "Wild Weasel" F-4G and F-4E sqdns.; F-4 transitional and upgrade training; German Air Force training in F-4. TAC F-106 detachment. Base activated in 1941; named for Brig. Gen. Harold H. George, WW I fighter ace killed Apr. 29, 1942, in Australia in aircraft accident. Area 5,347 acres. Altitude 2,875. Military 4,865; civilians 448. Payroll \$67.2 million. Housing: 229 officer; 1,212 NCO; 200 Senior NCO; transient 40 TLQs. 30-bed hospital.

Goodfellow AFB, Tex. 76908; 2 mi. SE of San Angelo. Phone (915) 653-3231; AUTOVON 477-2011. ATC base. 3480th Technical Training Wing; USAF Technical Training School. Base activated Jan. 1941; named for Lt. John J. Goodfellow, Jr., WW I fighter pilot killed in combat Sept. 17, 1918. Area 1,127 acres. Altitude 1,877 ft. Military 1,394; civilians 576. Payroll \$20 million. Housing: 3 officer; 96 NCO; 86 transient (23 VAQs, 63 VOQs). Dispensary.

Grand Forks AFB, N. D. 58205; 16 mi. W of Grand Forks. Phone (701) 594-6011; AUTOVON 362-1110. SAC base. 319th Bomb Wing; 321st Strategic Missile Wing (Minuteman III). Base activated in 1956. Area 5,500 acres. Altitude 911 ft. Military 5,140; civilians 705. Payroll \$67.2 million. Housing: 542 officer; 1,661 NCO; 71 transient. 30-bed hospital.

Griffiss AFB, N. Y. 13441; 1 mi. NE of Rome. Phone (315) 390-1110; AUTOVON 587-1110. SAC base. 416th Bomb Wing. Major tenant is Rome Air Development Center (RADC), part of AFSC. Base also houses Headquarters of AFCC's Northern Communications Area; 485th Communications and Installations Gp. (AFCC); and 49th Fighter-Interceptor Sqdn. (TAC). Base activated Feb. 1, 1942; named for Lt. Col. Townsend E. Griffiss, killed in aircraft accident, Feb. 15, 1942 (the first US airman to lose his life in Europe while in the line of duty during WW II). Area 3,896 acres. Altitude 504 ft. Military 3,871; civilians 2,870. Payroll \$109.8 million. Housing: 175 officer; 558 NCO; 140 transient. 70-bed hospital.

Grissom AFB, Ind. 46971; 7 mi. S of Peru. Phone (317) 689-5211; AUTOVON 928-1110. SAC base. 305th Air Refueling Wing; 434th Tactical Fighter Wing (AFRES); 931st Air Refueling Gp. (AFRES). Activated Jan. 1943 for Navy flight training; reactivated June 1954 as Bunker Hill AFB; renamed May 1968 for Lt. Col. Virgil I. "Gus" Grissom, killed Jan. 27, 1967, at Cape Kennedy, Fla., with other Astronauts Edward White and Roger Chaffee, in Apollo capsule fire. Area 2,810 acres. Altitude 800 ft. Military 3,726; civilians 1,029. Payroll \$42.1 million (SAC only). Housing: 276 officer; 1,852 NCO; 138 transient. Dispensary.

Gunter AFS, Ala. 36114; 4 mi. NE of Montgomery. Phone (205) 279-1110; AUTOVON 921-1110. ATC station. Hq. Air Force Data Automation Agency and site of Air Force Data Systems Design Center; Air Force Logistics Management Center; USAF

Extension Course Institute; USAF Senior NCO Academy. Base activated Aug. 27, 1940; named for William A. Gunter, longtime mayor of Montgomery and airpower exponent, died 1940. Area 364 acres. Altitude 166 ft. Military 1,141; civilians 812. Payroll included in Maxwell entry. Housing: 118 officer; 206 NCO; 105 transient.

Hancock Field, N. Y. 13225; 10 mi. NNE of Syracuse. Phone (315) 458-5500; AUTOVON 587-9110. TAC base. 4789th Air Base Gp., host unit, supports 21st NORAD Region; Hq. 21st Air Div. (TAC); 113th Tactical Control Flight (ANG); 174th Tactical Fighter Wing (ANG); 3513th USAF Recruiting Sqdn. Base activated Sept. 1942 as Syracuse Army Air Base, renamed Mar. 1952 for Clarence E. Hancock (1885-1949), prominent local citizen and member of US House of Representatives. Area 765 acres. Altitude 421 ft. Military 862; civilians 327. Payroll \$15.3 million. Housing: 61 officer; 167 NCO; 17 transient.

Hanscom AFB, Mass. 01731; 17 mi. NW of Boston. Phone (617) 861-4441; AUTOVON 478-4441. AFSC base. Hq. Electronic Systems Div. (AFSC), manages development and acquisition of command control and communications systems. Also site of AF Geophysics Lab. center for research and exploratory development in the terrestrial, atmospheric, and space environments. Base has no flying mission; transient USAF aircraft use runways of Laurence G. Hanscom Field, state-operated airfield adjoining the base. Named for a pre-WW II advocate of private aviation, killed in a lightplane accident in 1941. Area 887 acres. Altitude 133 ft. Military 1,848; civilians 3,025. Payroll \$118 million. Housing: 289 officer; 406 NCO; 16 transient. Dispensary.

Hickam AFB, Hawaii 96853; 6 mi. W of Honolulu. Phone (808) 422-0531 (Oahu military operator); AUTOVON 430-0111. PACAF base. Hq. Pacific Air Forces; 15th Air Base Wing, support organization for Air Force units in Hawaii and throughout the Pacific; 154th Tactical Fighter Gp. (ANG); Hq. Pacific Communications Area (AFCC); 1st Weather Wing (MAC); 834th Airlift Div. (MAC). Base activated Sept. 1937. Named for Lt. Col. Horace M. Hickam, air pioneer killed in crash Nov. 5, 1934, at Fort Crockett, Tex. Area 2,731 acres. Altitude sea level. Military 5,000; civilians 2,000. Payroll \$197.5 million (includes Hickam, Wheeler AFB, and Bellows AFS). Housing: 535 officer; 1,940 NCO. Clinic.

Hill AFB, Utah 84056; 7 mi. S of Ogden. Phone (801) 777-7221; AUTOVON 458-1110. AFLC base. Hq. Ogden Air Logistics Center. Furnishing logistics support for Minuteman and Titan II missiles; BOMARC drone and Maverick missiles; Walleye; laser and electro-optical guided bombs; emergency rocket communications systems; MX missile; F-4, F-16, and F-105 manager; air munitions; aircraft landing gears; wheels, brakes, tires, and tubes; photographic and aerospace training equipment; and COM-10. Also home of 388th Tactical Fighter Wing; 508th Tactical Fighter Gp. (AFRES); 6545th Test Gp. (AFSC), which includes management of Utah Test and Training Range and RPV test programs. Base activated Nov. 1940. Named for Maj. Ployer P. Hill, killed Oct. 30, 1935, test-flying the first B-17. Area 7,000 acres. Altitude 4,788 ft. Military 5,390; civilians 13,873. Payroll \$375 million. Housing: 263 officer; 882 NCO; 8 transient. 35-bed hospital.

Holloman AFB, N. M. 88330; 6 mi. SW of Alamogordo. Phone (505) 479-6511; AUTOVON 867-1110. TAC base. Hq. 833d Air Div.; 49th Tactical Fighter Wing, F-15 operations; 479th Tactical Training Wing (T-38 fighter lead-in training); 4449th Mobility Support Sqdn. (Harvest Bare) and 82d Tactical Control Flight. AFSC conducts test and evaluation of aircraft and missile systems and operates the Central Inertial Guidance Test Facility, the High Speed Test Track Facility, and the Radar Target Scatter (RATSCAT) Site. Base activated in 1942; named for Col. George V. Holloman, guided-missile pioneer, killed in B-17 crash in Formosa, Mar. 19, 1946. Area 57,530 acres. Al-

titude 4,092 ft. Military 5,737; civilians 1,371. Payroll \$82 million. Housing: 192 officer; 1,360 NCO; 250 transient. 30-bed hospital.

Homestead AFB, Fla. 33039; 5 mi. NNE of Homestead. Phone (305) 257-8011; AUTOVON 791-0111. TAC base. 31st Tactical Fighter Wing; F-4D fighter operations and training; site of ATC sea-survival school; 915th Tactical Fighter Gp. (AFRES) and aerospace rescue and recovery sqdn. Base activated Apr. 1955. Area 3,558 acres. Altitude 7 ft. Military 5,352; civilians 1,389. Payroll \$85 million. Housing: 321 officer; 1,294 NCO; 203 transient. 80-bed hospital.

Hurlburt Field, Fla. 32544; 8 mi. W of Fort Walton Beach. Phone (904) 881-6668; AUTOVON 872-1110. TAC base, though part of the Eglin AFB; (AFSC) reservation. Home of 1st Special Operations Wing, focal point of all USAF special operations; USAF Special Operations School; MC-130E (Combat Talon), AC-130H (Spectre Gunship), HH-53 (Super Jolly), and UH-1N (Huey Gunship) helicopter sqdns.; TAC's only special operations combat control team and special operations weather team; 4442d Tactical Control Gp., including USAF Air Ground Operations School, 823d Civil Engineering Sqdn. (Red Horse). Base activated in 1943; named for Lt. Donald W. Hurlburt, WW II pilot killed Oct. 2, 1943, in a crash on Eglin reservation. Altitude 35 ft. Military 3,534; civilians 360. Payroll \$60 million. Housing: 74 officer; 306 NCO; 341 transient. Clinic only at Hurlburt, but 200-bed hospital at Eglin main base.

Indian Springs AF Auxillary Field, Nev. 89018; 45 mi. NW of Las Vegas. Phone (702) 897-6201; AUTOVON 682-6201. TAC base. 554th Combat Support Sqdn.; Det. 1, 57th Fighter Weapons Wing; provides bombing and gunnery range support for tactical operations from Nellis AFB; manages construction of realistic target complexes; supports US Department of Energy research activities. Base activated in 1942. Area 1,652 acres. Altitude 3,124 ft. Military 160; civilians 48. (Payroll included in Nellis AFB entry.) Housing: 9 officer; 69 NCO; 30 trailer spaces. Dispensary.

Keester AFB, Miss. 39534; located in Biloxi. Phone (601) 377-1110; AUTOVON 868-1110. ATC base. Hq. Keester Technical Training Center (communications, electronics, personnel, and administrative courses); Keester USAF Medical Center. Hosts MAC and AFRES weather recon units. TAC airborne command and control sqdn., AFCC installation gp., and AFCC NCO Academy/Leadership School. Base activated June 12, 1941; named for 2d Lt. Samuel R. Keester, Jr., WW I aerial observer, killed in action Oct. 9, 1918, near Verdun, France. Area 3,600 acres. Altitude 26 ft. Military 14,329; civilians 3,596. Payroll \$194 million. Housing: 430 officer; 1,527 NCO; 68 transient. (350 VOQ units on space availability, tech training students occupy many units.) 325-bed hospital.

Kelly AFB, Tex. 78241; 5 mi. SW of San Antonio. Phone (512) 925-1110; AUTOVON 945-1110. AFCL base. Hq. San Antonio Air Logistics Center; Hq. Electronic Security Command; AF Electronic Warfare Center; AF Cryptologic Support Center; Joint Electronic Warfare Center; USAF Service Information and News Center; AF Commissary Service; 433d Tactical Airlift Wing (AFRES); 149th Tactical Fighter Gp. (ANG). Base activated May 7, 1917; named for Lt. George E. M. Kelly, first Army pilot to lose his life in a military aircraft, killed May 10, 1911. Area 3,925 acres. Altitude 689 ft. Military 4,251; civilians 18,100. Payroll \$410.9 million. Housing: 46 officer; 368 NCO. 3-bed dispensary.

Kirtland AFB, N. M. 87117; S of Albuquerque. Phone (505) 844-0011; AUTOVON 244-0011. MAC base. 1606th Air Base Wing. Major agencies and units include AF Contract Management Div. (AFSC); AF Test and Evaluation Center; AF Weapons Laboratory (AFSC); Office of the Chief of Security Police; New Mexico ANG; 1550th Aircrew Training and Test Wing (MAC); Defense Nuclear Agency Field Command; Naval Weapons Evaluation Facility, Sandia Laboratories; Lovelace Biomedical and Environmental Research Institute; Department of Energy's Albuquerque Operations Office; AFSC NCO Academy; AF Directorate of Nuclear Surety; 150th Tactical Fighter Gp. (ANG); 1960th Communications Sqdn.; 3098th Aviation

Depot Sqdn.; and Det. 1, 1369th Audiovisual Sqdn. These agencies furnish contract management; nuclear and laser research, development, and testing; operational test and evaluation services; advanced helicopter training; and HC-130 search and rescue training. Base activated Jan. 1941; named for Col. Roy S. Kirtland, air pioneer and commandant of Langley Field in the 1930s, died May 2, 1941. Area 51,330 acres. Altitude 5,352 ft. Military 4,543; civilians 12,069. Payroll \$415 million. Housing: 124 officer; 2,010 NCO; 380 transient (211 VOQ, 169 VAQ). Dispensary and 45-bed hospital.

K. I. Sawyer AFB, Mich. 49843; 20 mi. S of Marquette. Phone (906) 346-6511; AUTOVON 472-1110. SAC base. 410th Bomb Wing; 46th Air Refueling Sqdn.; 87th Fighter-Interceptor Sqdn. (TAC); 2001st Communications Sqdn. (AFCC). Base activated in 1959; named for Kenneth I. Sawyer, who proposed site for county airport, died in 1944. Area 5,224 acres. Altitude 1,220 ft. Military 3,696; civilians 517. Payroll \$61 million. Housing: 337 officer; 1,356 NCO; 40 BOQ units; 244 transient (incl. 20 fully furnished efficiency apartments and 200 trailer spaces in housing section). 50-bed hospital.

Lackland AFB, Tex. 78236; 8 mi. WSW of San Antonio. Phone (512) 671-1110; AUTOVON 473-1110. ATC base. Provides basic military training for airmen; technical training of basic, advanced security police/law enforcement personnel; patrol dog-handler courses; training of instructors, recruiters, and social actions/drug abuse counselors; USAF marksmanship training; Officer Training School; Defense Language Institute-English Language Center; Wilford Hall USAF Medical Center. Base activated in 1941; named for Brig. Gen. Frank D. Lackland, early commandant of Kelly Field flying school, died 1943. Area 6,828 acres, incl. 4,017 acres at Lackland Training Annex. Altitude 787 ft. Military 19,860; civilians 4,891. Payroll \$202.3 million. Housing: 106 officer; 619 NCO; 1,257 transient. 1,000-bed hospital.

Langley AFB, Va. 23665; 3 mi. N of Hampton. Phone (804) 764-9990; AUTOVON 432-1110. TAC

GUIDE TO AIR FORCE STATIONS

In addition to the major facilities in this Guide to Bases, USAF has a number of Air Force stations (AFS) throughout the US and overseas. These stations, for the most part, perform an air defense mission, are Joint Surveillance Systems (JSS), and house radar, SAGE, and/or AC&W units. Some stations are excess to USAF requirements and will be closed. Here is a listing of stations with state, ZIP code, and major command. Where a station can be reached by a general-purpose AUTOVON number, such a number (AV) is listed. Commercial telephone numbers (AC) are given for stations not having access to AUTOVON.

Albrook AFS, APO Miami 34002 (TAC)	AV 313-28-1110	Jacksonville AFS, Florida 32212 (TAC)	AC (905) 777-9695
Almaden AFS, California 95042 (TAC)	AC (408) 268-3512	Klamath AFS, California 95548 (TAC)	AV 670-2011
Bellows AFS, Hawaii 96795 (PACAF)	AC (808) 259-5428	Kotzebue AFS, APO Seattle 98709 (AAC)	AV 317-748-1200
Calumet AFS, Michigan 49913 (TAC)	AC (906) 337-4200	Lake Charles AFS, Louisiana 70601 (TAC)	AV 683-5684
Cambria AFS, California 93428 (TAC)	AC (805) 927-4611	Lakeside AFS, Montana 59922 (TAC)	AC (406) 844-3351
Campion AFS, APO Seattle 98703 (AAC)	AV 317-743-1200	Makah AFS, Washington 98357 (TAC)	AC (206) 645-2231
Cape Canaveral AFS, Florida 32925 (AFSC)	AV 467-1110	Mica Peak AFS, Washington 99023 (TAC)	AC (509) 247-2669
Cape Charles AFS, Virginia 23310 (TAC)	AC (804) 331-2765	Mill Valley AFS, California 94941 (TAC)	AC (415) 388-0130
Cape Lisburne AFS, APO Seattle 98716 (AAC)	AV 317-725-1200	Montauk AFS, New York 11954 (TAC)	AC (516) 668-2321
Cape Newenham AFS, APO Seattle 98745 (AAC)	AV 317-794-1200	Mt. Hebo AFS, Oregon 97122 (TAC)	AC (503) 392-3111
Cape Romanzof AFS, APO Seattle 98706 (AAC)	AV 317-795-1200	Mt. Laguna AFS, California 92048 (TAC)	AV 727-8301
Clear AFS, APO Seattle 98704 (SAC)	AV 317-522-3333	Newark AFS, Ohio 43055 (AFLC)	AV 580-1110
Cold Bay AFS, APO Seattle 98711 (AAC)	AV 317-565-7200	North Bend AFS, Oregon 97459 (TAC)	AC (503) 756-4146
Concrete MEWS, North Dakota 58221 (SAC)	AV 330-3297	North Charleston AFS, South Carolina 29404 (TAC)	AC (919) 744-7481
Cudjoe Key AFS, Florida 33042 (TAC)	AC (305) 745-3957	North Truro AFS, Massachusetts 02652 (TAC)	AC (617) 645-2231
Dallas AFS, Oregon 97338 (TAC)	AC (503) 787-3336	Oklahoma City AFS, Oklahoma 73145 (AFLC)	AV 735-9011
Dauphin Island AFS, Alabama 36528 (TAC)	AC (205) 868-2972	Point Arena AFS, California 95468 (TAC)	AC (707) 882-2165
Empire AFS, Michigan 49630 (TAC)	AC (616) 326-6211	Port Austin AFS, Michigan 48467 (TAC)	AC (517) 738-5111
Finland AFS, Minnesota 55603 (TAC)	AC (218) 353-7444	Richmond AFS, Florida 33156 (TAC)	AV 791-8124
Finley AFS, North Dakota 59230 (TAC)	AV 362-6138	San Pedro Hill AFS, California 90274 (TAC)	AV 972-7061
Fort Fisher AFS, North Carolina 28449 (TAC)	AC (919) 458-8251	Savannah AFS, Georgia 31402 (ANG)	AC (912) 352-5414
Fort Lee AFS, Virginia 23801 (TAC)	AV 687-4008	Sparrevohn AFS, APO Seattle 98746 (AAC)	AV 317-731-1200
Fort Yukon AFS, APO Seattle 98710 (AAC)	AV 317-732-1200	Sunnyvale AFS, California 94088 (AFSC)	AV 359-3611
Fortuna AFS, North Dakota 58844 (SAC)	AC (701) 834-2251	Tatiana AFS, APO Seattle 98747 (AAC)	AV 317-728-1200
Gentile AFS, Ohio 45401 (AFLC)	AV 850-5111	Tin City AFS, APO Seattle 98715 (TAC)	AV 317-724-1200
Gibbsboro AFS, New Jersey 08026 (TAC)	AC (609) 783-1449	Tonapah AFS, Nevada 89049 (AFSC)	AC (702) 643-9252
Indian Mountain AFS, APO Seattle 98748 (AAC)	AV 317-722-1200	Watford City AFS, North Dakota 58831 (TAC)	AC (701) 482-5136

base. Host unit 1st Tactical Fighter Wing, F-15 fighter operations; Hq. Tactical Air Command; 5th Weather Wing (MAC); 2d Aircraft Delivery Gp. (TAC); 460th Reconnaissance Technical Sqdn. (TAC); 6th Airborne Command and Control Sqdn. (TAC); US Army TRADOC Flight Det.; 48th Fighter Interceptor Sqdn. (ADTAC). Base activated Dec. 30, 1916; is the oldest continuously active AFB in the US; named for aviation pioneer and scientist Samuel Pierpont Langley, who died in 1906. NASA Langley Research Center is located across base. Area 3,500 acres. Altitude 10 ft. Military 7,950; civilians 2,427. Payroll \$148.0 million. Housing: 384 officer; 1,259 NCO; 201 transient. 85-bed hospital and dispensary.

Laughlin AFB, Tex. 78840; 6 mi. E of Del Rio. Phone (512) 298-3511; AUTOVON 732-1110. ATC base. 47th Flying Training Wing, undergraduate pilot training. Base activated Oct. 1942; named for 1st Lt. Jack T. Laughlin, B-17 pilot killed over Java, Jan. 29, 1942. Area 4,008 acres. Altitude 1,080 ft. Military 2,600; civilians 553. Payroll \$43 million. Housing: 255 officer; 348 NCO; 39 transient. 15-bed hospital.

Laurence G. Hanscom AFB (see *Hanscom AFB*).

Little Rock AFB, Ark. 72076; 12 mi. NE of Little Rock. Phone (501) 988-3131; AUTOVON 731-1110. MAC base. 314th Tactical Airlift Wing; 308th Strategic Missile Wing; SAC Titan II ICBM support base; 189th Air Refueling Gp. (ANG); Det. 9, 1365th Audiovisual Sqdn. Base activated in 1955. Area 6,100 acres. Altitude 310 ft. Military 6,343; civilians 800. Payroll \$89 million. Housing: 313 officer; 1,222 NCO; 380 transient (160 VAQ, 220 VOQ). 40-bed hospital.

Loring AFB, Me. 04751; 4 mi. W of Limestone. Phone (207) 999-1110; AUTOVON 920-1110. SAC base. 42d Bomb Wing. Base activated Feb. 25, 1953, as Limestone AFB; renamed for Maj. Charles J. Loring, Jr., F-80 pilot killed Nov. 22, 1952, in North Korea; posthumously awarded Medal of Honor. Area more than 9,000 acres. Altitude 746 ft. Military 3,370; civilians 752. Payroll \$54.5 million. Housing: 654 officer; 1,364 NCO; 12 transient; 4 VIP. 15-bed hospital.

Los Angeles AFS, Calif. 90009; in metropolitan Los Angeles area, city of El Segundo. Phone (213) 643-1000; AUTOVON 833-1110. AFSC station. Space Division of AFSC manages the development, launch, and on-orbit control of DoD's space programs. 23 tenant units. Station activated Dec. 14, 1960. Military 1,900; civilians 1,250. Payroll \$60 million.

Lowry AFB, Colo. 80230; 6 mi. E of Denver. Phone (303) 370-1110; AUTOVON 926-1110. ATC base. Technical Training Center; Air Force Accounting and Finance Center; Air Reserve Personnel Center, and the 3320th Correction and Rehabilitation Sqdn. Lowry Technical Training Center conducts training in avionics, aerospace munitions, air intelligence, logistics, and audiovisual fields. Base activated Feb. 26, 1938; named for 1st Lt. Francis B. Lowry, killed in action Sept. 26, 1918, near Crepon, France, while on a photo mission. Area 1,863 acres on base and 3,833-acre training annex 25 mi. E of Lowry. Altitude 5,400 ft. Military 8,841; civilians 5,011. Payroll \$154 million. Housing: 94 officer; 772 NCO; 40 transient. Dispensary.

Luke AFB, Ariz. 85309; 20 mi. WNW of Phoenix. Phone (602) 935-7411; AUTOVON 853-1110. TAC base. 832d Air Div., 405th Tactical Training Wing; 58th Tactical Training Wing; Hq. 26th NORAD Region; Hq. 26th Air Div. (TAC); 302d Special Operations Sqdn. (AFRES). Luke, the largest fighter training base in the free world, conducts training of USAF aircrews in the F-4C and F-15, German students in the F-104G, and foreign training in the F-5 (at nearby Williams AFB). Base activated in 1941; named for 2d Lt. Frank Luke, Jr., observation balloon-busting ace of WW I and first flyer to receive the Medal of Honor, killed in action Sept. 29, 1918, near Murvaux, France. Area 4,197 acres plus 2,700,000-acre range. Altitude 1,101 ft. Military 7,000; civilians 900. Payroll \$140 million. Housing:

80 officer; 786 NCO; 40 transient. 105-bed hospital.

MacDill AFB, Fla. 33608; adjacent to Tampa. Phone (813) 830-1110; AUTOVON 968-1110. TAC base. Hq. US Readiness Command; 56th Tactical Fighter Wing conducts replacement training in the F-4D and the F-16. The wing is currently converting to the F-16 for its RTU mission. Base activated Apr. 15, 1941; named for Col. Leslie MacDill, killed in an aircraft accident Nov. 8, 1938, near Washington, D. C. Area 5,621 acres. Altitude 6 ft. Military 6,198; civilians 1,386. Payroll \$115 million. Housing: 58 officer; 746 enlisted; 350 transient. 75-bed hospital.

Malmstrom AFB, Mont. 59402; 4 mi. E of Great Falls. Phone (406) 731-9990; AUTOVON 632-1110. SAC base. 341st Strategic Missile Wing; Hq. 24th Air Div. (TAC); SAGE Region Control Center (NORAD). Base activated Dec. 15, 1942; named for Col. Einar A. Malmstrom, WW II fighter commander killed in air accident Aug. 24, 1954. Site of SAC's first Minuteman wing. Area 3,573 acres, plus about 23,000 sq. mi. of missile complex. Altitude 3,525 ft. Military 4,416; civilians 525. Payroll \$64.4 million. Housing: 294 officer; 1,112 NCO; 107 transient. 29-bed hospital.

March AFB, Calif. 92518; 9 mi. SE of Riverside. Phone (714) 655-1110; AUTOVON 947-1110. SAC base. Hq. 15th AF; 22d Bomb Wing; 452d Air Refueling Wing (AFRES); 303d Aerospace Rescue and Recovery Sqdn. (AFRES). Base activated Mar. 1, 1918; named for 2d Lt. Peyton C. March, Jr., who died in Texas of crash injuries Feb. 18, 1918. Area 7,117 acres. Altitude 1,530 ft. Military 4,057; civilians 1,370. Payroll \$91.1 million. Housing: 103 officer; 608 NCO; 150 transient. 145-bed hospital.

Mather, AFB, Calif. 95655; 12 mi. ESE of Sacramento. Phone (916) 364-1110; AUTOVON 828-1110. ATC base. DoD executive manager for navigator training (USAF, Navy, Marine Corps basic navigation training). Only navigator training base; also trains USAF electronic warfare officers and navigator-bombardiers. 320th Bomb Wing (SAC); 940th Air Refueling Gp. (AFRES); 3506th Recruiting Gp. Base activated 1918; named for 2d Lt. Carl S. Mather, killed in midair collision, Jan. 30, 1918, at Ellington Field, Tex. Area 5,800 acres. Altitude 96 ft. Military 4,800; civilians 1,950. Payroll \$105 million. Housing: 407 officer; 864 NCO; 40 transient. 70-bed hospital.

Maxwell AFB, Ala. 36112; 1 mi. WNW of Montgomery. Phone (205) 293-1110; AUTOVON 875-1110. ATC base. Hq. Air University, professional education center for USAF; site of Air War College, Air Command and Staff College, Squadron Officer School, Leadership and Management Development Center, Academic Instructor and Foreign Officer School; Hq. Air Force ROTC; Hq. Civil Air Patrol-USA; Community College of the Air Force; 908th Tac Airlift Gp. (AFRES). (The Senior NCO Academy and Extension Course Institute are at Gunter AFS.) Base activated 1918; named for 2d Lt. William C. Maxwell, killed in an air accident Aug. 12, 1920, in the Philippines. Area 2,556 acres. Altitude 169 ft. Military 2,785; civilians 1,577. Payroll \$142.5 million. Housing: 275 officer; 249 NCO; 1,029 transient (971 VOQ and 58 VAQ). 85-bed hospital.

McChord AFB, Wash. 98438; 8 mi. S of Tacoma. Phone (206) 984-1910; AUTOVON 978-1110. MAC base. 62d Military Airlift Wing; Hq. 25th Air Div. (TAC); 18th Fighter Interceptor Sqdn. (TAC); SAGE Region Control Center (NORAD); 446th Military Airlift Wing (AFRES Assoc.). Base activated May 5, 1938; named for Col. William C. McChord, killed Aug. 18, 1937, while attempting a forced landing at Maidens, Va. Area 4,609 acres. Altitude 322 ft. Military 5,268; civilians 1,361. Payroll \$113.9 million. Housing: 111 officer; 782 NCO; 284 transient. Dispensary.

McClellan AFB, Calif. 95652; 9 mi. NE of Sacramento. Phone (916) 643-2111; AUTOVON 633-1110. AFLC base. Hq. Sacramento Air Logistics Center, logistics management, procurement,

maintenance, and distribution support for such USAF weapon systems as F-111, FB-111, A-10, T-39; surveillance and warning systems, Space Transportation System, communication-electronics equipment, radar sites, and generators; maintenance support for F-4 and F-106 aircraft. Associate units include 41st Rescue and Weather Recon. Wing (MAC); 2049th Communications Gp., and 1849th Electronics Installations Sqdn. (AFCC); 1155th Technical Operations Sqdn. (AFSC); 431st Fighter Weapons Sqdn. (TAC); Hq. 4th Air Force (AFRES); Defense Logistics Agency; and US Coast Guard Air Station, Sacramento (DOT). Named for Maj. Hezekiah McClellan, pioneer in Arctic aeronautical experiments, killed in crash May 25, 1936. Area 2,598 acres. Altitude 76 ft. Military 3,558; civilians 12,851. Payroll \$343 million. Housing: 168 officer; 507 NCO; 21 transient. Dispensary.

McConnell AFB, Kan. 67221; 5 mi. SE of Wichita. Phone (316) 681-6100; AUTOVON 962-1110. SAC base. 381st Strategic Missile Wing; 384th Air Refueling Wing; 184th Tactical Fighter Gp. (ANG). Base activated June 5, 1951; named for Capt. Fred J. McConnell, WW II B-24 pilot who died in a crash of private plane Oct. 25, 1945; and for his brother, 2d Lt. Thomas L. McConnell, also a WW II B-24 pilot, killed July 10, 1943, during attack on Bougainville in the Pacific. Area 2,608 acres. Altitude 1,371 ft. Military 3,197; civilians 490. Payroll \$56.6 million. Housing: 149 officer; 445 NCO; 133 transient. 20-bed hospital.

McGuire AFB, N. J. 08641; 18 mi. SE of Trenton. Phone (609) 724-1110; AUTOVON 440-0111. MAC base. 438th Military Airlift Wing; Hq. 21st Air Force; N. J. ANG; N. J. Civil Air Patrol; 170th Air Refueling Gp. (ANG); 108th Tactical Fighter Wing (ANG); 514th Military Airlift Wing (AFRES Assoc.); the MAC NCO Academy East; and Air Force Band of the East. Base adjoins Army's Fort Dix; formerly Fort Dix Army Air Base. Activated as AFB in 1949; named for Maj. Thomas B. McGuire, Jr., P-38 pilot, second leading US ace of WW II, holder of Medal of Honor, killed in action Jan. 7, 1945, in the Philippines. Area 3,552 acres. Altitude 133 ft. Military 5,321; civilians 2,037. Payroll \$114.8 million. Housing: 442 officer; 1,312 NCO; 620 transient (186 VOQ, 244 VAQ, 160 transient family units, 30 transient). Dispensary and 163-bed hospital.

Minot AFB, N. D. 58705; 13 mi. N of Minot. Phone (701) 727-4761; AUTOVON 344-1110. SAC base. 57th Air Div.; 91st Strategic Missile Wing; 5th Bomb Wing; 5th Fighter Interceptor Sqdn. (TAC). Base activated Feb. 1957. Area 5,050 acres, plus additional 19,324 acres for missile sites. Altitude 1,650 ft. Military 5,627; civilians 670. Payroll \$76.3 million. Housing: 543 officers; 1,927 NCO; 104 transient. Dispensary, also 40-bed military hospital in city of Minot.

Moody AFB, Ga. 31699; 10 mi. NNE of Valdosta. Phone (912) 333-4211; AUTOVON 460-1110. TAC base. 347th Tactical Fighter Wing, F-4E fighter operations. Base activated June 1941; named for Maj. George P. Moody, killed May 5, 1941, while test-flying Beech AT-10. Area 6,050 acres. Altitude 233 ft. Military 2,756; civilians 464. Payroll \$45 million. Housing: 61 officers; 245 NCO; 51 transient. 25-bed hospital.

Mountain Home AFB, Idaho 83648; 56 mi. SE of Boise. Phone (208) 828-2111; AUTOVON 857-1110. TAC base. 366th Tactical Fighter Wing, F-111A fighter and EF-111A defense-suppression operations. Base activated Apr. 1942. Area 6,639 acres. Altitude 3,000 ft. Military 4,105; civilians 650. Payroll \$59 million. Housing: 346 officer; 1,292 NCO; 105 transient. 20-bed hospital.

Myrtle Beach AFB, S. C. 29577; S of Myrtle Beach. Phone (803) 238-7211; AUTOVON 748-1110. TAC base; shares runway with Myrtle Beach Jetport. 354th Tactical Fighter Wing, A-10 fighter operations. Served as Army air base, 1941-47; USAF base since 1956. Area 3,793 acres. Altitude 24 ft. Military 2,898; civilians 703. Payroll \$44.9 million. Housing: 132 officer; 668 NCO; 65 trailer lots. 32-bed hospital.

Nellis AFB, Nev. 89191; 8 mi. NE of Las Vegas. Phone (702) 643-1800; AUTOVON 682-1800. TAC base. Tactical Fighter Weapons Center, host unit. F-4D/E, F-5E, F-15, F-16, F-111, A-10, T-38, UH-1N operations; 57th Fighter Weapons Wing; 474th Tactical Fighter Wing; USAF Thunderbirds Air Demonstration Sqdn.; 4440th Tactical Fighter Training Gp. (Red Flag); 554th Operations Support Wing, range group; conducts initial and advanced tactical fighter training and realistic combat training for DoD; provides test and evaluation of air tactics and new equipment. Base activated July 1941; named for 1st Lt. William H. Nellis, WW II P-47 fighter pilot, killed Dec. 27, 1944, in Europe. Area 11,274 acres, with ranges totaling 3,012,770 acres. Altitude 2,171 ft. Military 9,096; civilians 1,287. Payroll \$112 million. Housing: 163 officer; 1,319 NCO; 100 trailer spaces; 943 transient (incl. 581 VAQ, 336 VOQ, 26 TLO). 40-bed hospital.

Norton AFB, Calif. 92409; 59 mi. E of Los Angeles, within San Bernardino corporate limits. Phone (714) 382-1110; AUTOVON 876-1110. MAC base. 63d Military Airlift Wing; Hq. AF Inspection and Safety Center; Hq. Defense Audiovisual Agency;

Hq. AF Audit Agency; Hq. Aerospace Audiovisual Service (MAC). Also: Ballistic Missile Office (AFSC); 445th Military Airlift Wing (AFRES Assoc.); MAC NCO Academy West and 22d Air Force NCO Leadership School. Base activated Mar. 2, 1942; named for Capt. Leland F. Norton, native of San Bernardino, WW II A-20 attack bomber pilot, killed in action May 27, 1944, near Amiens, France. Area 2,407 acres. Altitude 1,156 ft. Military 5,396; civilians 2,798. Payroll \$161 million. Housing: 56 officer; 208 NCO; 339 transient (incl. 289 transient, 40 TQ, 10 guest). Clinic.

Offutt AFB, Neb. 68113; 8 mi. S of Omaha. Phone (402) 294-1110; AUTOVON 271-1110. SAC base. Hq. Strategic Air Command; 55th Strategic Reconnaissance Wing; 544th Strategic Intelligence Wing; AF Global Weather Center (MAC); 3d Weather Wing (MAC); and 3902d Air Base Wing. Base activated 1888 as Army's Fort Crook; landing field named in 1924 for 1st Lt. Jarvis J. Offutt, WW I pilot, died Aug. 13, 1918, from injuries received at Valheureux, France. Area 1,914 acres. Altitude 1,048 ft. Military 12,464; civilians 2,110 (incl. 468 contractor personnel). Payroll \$220.1 million.

Housing: 882 officer; 1,798 NCO; 60 transient. 65-bed hospital.

Patrick AFB, Fla. 32925; 2 mi. S of Cocoa Beach. Phone (305) 494-1110; AUTOVON 854-1110. AFSC base. Operated by the Eastern Space and Missile Center in support of DoD, NASA, and other agency missile and space programs. Major tenants are Equal Opportunity Management Institute; AF Technical Applications Center; 549th Tactical Air Support Gp.; and 2d Combat Communications Gp. (AFCC). Activated in 1940, base is airhead for Cape Canaveral AFS. Named for Maj. Gen. Mason M. Patrick, chief of AEF's Air Service in WW I and chief of the Air Service/Air Corps, 1921-27. Area 2,332 acres. Altitude 9 ft. Military 3,750; civilians 4,850. Payroll \$109 million. Housing: 247 officer; 1,407 NCO. 30-bed hospital.

Pease AFB, N. H. 03801; 3 mi. W of Portsmouth. Phone (603) 436-0100; AUTOVON 852-1110. SAC base. 45th Air Div.; 509th Bomb Wing; 157th Air Refueling Gp. (ANG). Base activated 1956; named for Capt. Harl Pease, Jr., WW II B-17 pilot and Medal of Honor recipient, killed Aug. 7, 1942, during attack on Rabaul, New Britain Island. Area

USAF'S PRINCIPAL BASES OVERSEAS

Ankara AS, Turkey
APO New York 09254
AUTOVON 672-1110
TUSLOG Hq., USAFE

Aviano AB, Italy
APO New York 09293
AUTOVON 632-1110
Tactical group, USAFE

Bitburg AB, Germany
APO New York 09132
AUTOVON 455-1110
Tactical fighter base, USAFE

Camp New Amsterdam,
The Netherlands
APO New York 09292
Tactical fighter unit, USAFE
(Call Ramstein, AUTOVON
424-1110; ask for Camp New
Amsterdam.)

Clark AB, Philippines
APO San Francisco 96274
AUTOVON 822-1201
Hq. 13th Air Force, PACAF

Hahn AB, Germany
APO New York 09109
AUTOVON 453-1110
Tactical fighter base, USAFE

Hellenikon AB, Greece
APO New York 09223
AUTOVON 662-1110
Support base, USAFE

Hessisch-Oldendorf AS, Germany
APO New York 09669
Support base, USAFE
(Call Sembach, AUTOVON
427-1110; ask for
Hessisch-Oldendorf.)

Howard AFB, Panama
APO Miami 34001
AUTOVON 284-1110
Hq. USAF Southern Air Division, TAC

Incirlik AB, Turkey
APO New York 09289
AUTOVON 676-1110
Support base, USAFE

Iraklion AS, Crete, Greece
APO New York 09291
AUTOVON 668-1110
Support base, USAFE

Izmir, Turkey
APO New York 09224
AUTOVON 675-1110
Support base, USAFE

Kadena AB, Okinawa, Japan
APO San Francisco 96239
AUTOVON 630-1110
313th Air Division, PACAF
18th Tactical Fighter Wing, PACAF
Tactical fighter base, PACAF
Strategic operations, SAC

Keflavik Airport, Iceland
FPO New York 09571
AUTOVON 231-1290
Fighter-interceptor base, TAC

Kunsan AB, South Korea
APO San Francisco 96264
AUTOVON 272-1110
8th Tactical Fighter Wing, PACAF
Tactical fighter base, PACAF

Kwang Ju AB, South Korea
APO San Francisco 96324
Combat support base, PACAF
(Call Korea, AUTOVON 262-1101;
ask for Kwang Ju AB.)

Lajes Field, Azores
APO New York 09406
AUTOVON 895-3490
Airlift base, MAC

Lindsey AS, Germany
APO New York 09633
AUTOVON 472-1110
Support base, USAFE

Misawa AB, Japan
APO San Francisco 96519
AUTOVON 248-1101
6112th Air Base Wing, PACAF
Support base, PACAF

Osan AB, South Korea
APO San Francisco 96570
AUTOVON 271-1234
314th Air Division, PACAF
51st Composite Wing (Tactical),
PACAF
Tactical fighter base, PACAF

RAF Alconbury, United Kingdom
APO New York 09238
AUTOVON 223-1110
Tactical reconnaissance base, USAFE

RAF Bentwaters, United Kingdom
APO New York 09755
AUTOVON 225-1110
Tactical fighter base, USAFE

RAF Chicksands, United Kingdom
APO New York 09193
AUTOVON 234-1110
Support base, USAFE

RAF Fairford, United Kingdom
APO New York 09125
AUTOVON 247-1110
KC-135 refueling support base,
USAFE/SAC

RAF Lakenheath, United Kingdom
APO New York 09179
AUTOVON 226-1110
Tactical fighter base, USAFE

RAF Mildenhall, United Kingdom
APO New York 09127
AUTOVON 238-1110
Hq. 3d Air Force, USAFE
Tactical airlift base, USAFE
Rotational KC-135, SAC
Rotational C-130, MAC

RAF Upper Heyford, United Kingdom
APO New York 09194
AUTOVON 263-1110
Tactical fighter base, USAFE

RAF Woodbridge, United Kingdom
APO New York 09405
AUTOVON 225-1110
Tactical fighter base, USAFE

Ramstein AB, Germany
APO New York 09012
AUTOVON 424-1110
Hq. USAFE
Tactical fighter base, USAFE
Hq. European Communications Area,
AFCC
7th Air Division, SAC
322d Airlift Division, MAC
2d Weather Wing, MAC

Rhein-Main AB, Germany
APO New York 09057
AUTOVON 462-1110
Tactical airlift base, MAC

San Vito AS, Italy
APO New York 09240
AUTOVON 633-1110
Support base, USAFE

Sembach AB, Germany
APO New York 09130
Hq. 17th Air Force, USAFE
Tactical air control base, USAFE

Sondrestrom AB, Greenland
APO New York 09121
Support base, SAC
(Call Malmstrom AFB,
AUTOVON 632-6000; ask
for Sondrestrom AB.)

Spangdahlem AB, Germany
APO New York 09123
AUTOVON 454-1110
Tactical fighter base, USAFE

Taegu AB, South Korea
APO San Francisco 96213
Combat support base, PACAF
(Call Korea, AUTOVON 262-1101;
ask for Taegu AB.)

Tempelhof Airport, Berlin
APO New York 09611
AUTOVON 442-1110
Support base, USAFE

Thule AB, Greenland
APO New York 09023
AUTOVON 834-1211; ask
for Thule.
Support base, SAC

Torrejon AB, Spain
APO New York 09283
AUTOVON 723-1110
Hq. 16th Air Force, USAFE
Tactical fighter base, USAFE

Yokota AB, Japan
APO San Francisco 96328
AUTOVON 248-1101
Hq. 5th Air Force, PACAF

Zaragoza AB, Spain
APO New York 09286
AUTOVON 724-1110
Tactical fighter training base, USAFE

Zweibrücken AB, Germany
APO New York 09860
AUTOVON 425-1110
Tactical reconnaissance base, USAFE

4,374 acres. Altitude 101 ft. Military 3,835; civilians 556. Payroll \$58.9 million. Housing: 139 officer; 1,073 NCO; 129 transient. 70-bed hospital.

Peterson AFB, Colo. 80914; 7 mi. E of Colorado Springs. Phone (303) 591-7321; AUTOVON 692-7011. SAC base. Home of 46th Aerospace Defense Wing (SAC), which supports Hq. North American Air Defense Command/Aerospace Defense Command (NORAD/ADCOM) Combat Operations Center in Cheyenne Mountain; Aerospace Defense Center; the Air Force Academy; and Fort Carson, Colo. Base activated in 1941; named for 1st Lt. Edward J. Peterson, killed Aug. 8, 1942, in aircraft crash at the base. Area 1,176 acres. Altitude 6,200 ft. Military 3,886; civilians 1,200. Payroll \$92 million. Housing: 106 officer; 384 NCO; 40 transient. Dispensary.

Plattsburgh AFB, N. Y. 12903; adjacent to Plattsburgh, N. Y. Phone (518) 563-4500; AUTOVON 689-1110. SAC base. 380th Bomb Wing, medium bomber and tanker operations with FB-111 and KC-135. 4007th Combat Crew Training Sqn. trains all FB-111 combat crews for SAC. Second oldest active military installation in the US, established 1814; AFB since 1955. Area 3,305 acres. Altitude 235 ft. Military 3,766; civilians 632. Payroll \$54.8 million. Housing: 242 officer; 1,397 NCO. 15-bed hospital.

Pope AFB, N. C. 28308; 12 mi. NNW of Fayetteville. Phone (919) 394-0001; AUTOVON 486-1110. MAC base. USAF Airlift Center; 317th Tactical Airlift Wing; 1st Aeromedical Evacuation Sqn.; 1943d Communications Sqn.; 53d Mobile Aerial Port Sqn. (AFRES). Base adjoins Army's Fort Bragg and provides intratheater airlift support for airborne forces and other personnel, equipment, and supplies. Base activated 1919; named for 1st Lt. Harley H. Pope, WW I flyer, killed Jan. 6, 1919, when his JN-4 "Jenny" ran out of fuel near Fayetteville and crashed. Area 1,750 acres. Altitude 218 ft. Military 4,062; civilians 338. Payroll \$55.9 million. Housing: 89 officer; 370 NCO; 216 transient. Dispensary.

Randolph AFB, Tex. 78148; 20 mi. ENE of San Antonio. Phone (512) 652-1110; AUTOVON 487-1110. ATC base. 12th Flying Training Wing, T-37 and T-38 pilot instructor training. Major tenants are Hq. Air Training Command; Air Force Manpower and Personnel Center; Occupational Measurement Center; Office of Civilian Personnel Operations; and Hq. USAF Recruiting Service. Base activated June 1930; named for Capt. William M. Randolph, killed Feb. 17, 1928, when his AT-4 crashed on takeoff at Gorman, Tex. Area 2,901 acres. Altitude 761 ft. Military 5,371; civilians 2,271. Payroll \$151.1 million. Housing: 200 officer; 813 NCO; 13 transient. Dispensary.

Reese AFB, Tex. 79489; 6 mi. W of Lubbock. Phone (806) 885-4511; AUTOVON 838-1110. ATC base. 64th Flying Training Wing, undergraduate pilot training. Base activated in 1942; named for 1st Lt. Augustus F. Reese, Jr., P-38 fighter pilot killed in Sardinia, May 14, 1943. Area 3,597 acres. Altitude 3,338 ft. Military 2,656; civilians 580. Payroll \$48 million. Housing: 113 officer; 294 NCO; 28 transient. 10-bed hospital.

Robins AFB, Ga. 31098; at Warner Robins; 18 mi. SSE of Macon. Phone (912) 926-1110; AUTOVON 468-1110. AFLC base. Hq. Warner Robins Air Logistics Center; Hq. Air Force Reserve (AFRES); 2853d Air Base Gp.; 19th Bomb Wing (SAC); 5th Combat Communications Gp. (AFLC); 3503d Recruiting Gp.; 1926th Communications and Installations Gp. (AFCC). Base activated Mar. 1942; named for Brig. Gen. Augustine Warner Robins, an early Chief of the Materiel Division of the Air Corps, died June 16, 1940. Area 8,809 acres. Altitude 294 ft. Military 4,007; civilians 15,000. Payroll \$375.4 million. Housing: 245 officer; 1,151 NCO; 40 transient. 40-bed hospital.

Sawyer AFB (see *K. I. Sawyer AFB*).

Scott AFB, Ill. 62225; 6 mi. ENE of Belleville. Phone (618) 256-1110; AUTOVON 638-1110. MAC

base. 375th Aeromedical Airlift Wing; Hq. Military Airlift Command; Hq. Air Force Communications Command; Hq. Aerospace Rescue and Recovery Service; Hq. Air Weather Service. Also, Defense Commercial Communications Office; Environmental Technical Applications Center; USAF Medical Center, Scott; 7th Weather Wing; 932d Aeromedical Airlift Gp. (AFRES Assoc.); and 375th Air Base Gp. Base activated June 14, 1917; named for Cpl. Frank S. Scott, first enlisted man to die in an air accident, killed Sept. 28, 1912, at College Park, Md. Area 3,000 acres. Altitude 453 ft. Military 6,473; civilians 3,791. Payroll \$176 million. Housing: 407 officer; 1,469 NCO, plus 120 spaces for privately owned trailers; 283 transient. 180-bed hospital; 100-bed aeromedical staging facility.

Seymour Johnson AFB, N. C. 27531; adjacent to Goldsboro. Phone (919) 736-0000; AUTOVON 488-1110. TAC base. 4th Tactical Fighter Wing, F-4E fighter operations with dual-based commitment to NATO; 68th Bomb Wing (SAC); 2012th Communications Sqn. (AFCC). Base activated June 12, 1941; named for Navy Lt. Seymour A. Johnson, native of Goldsboro, killed Mar. 4, 1941, in crash in Maryland. Area 4,281 acres. Altitude 109 ft. Military 4,982; civilians 905. Payroll \$76.5 million. Housing: 310 officer; 1,380 NCO; 88 transient. 30-bed hospital.

Shaw AFB, S. C. 29152; 10 mi. WNW of Sumter. Phone (803) 668-8110; AUTOVON 965-1110. TAC base. Hq. 9th Air Force (TAC); 363d Tactical Recon. Wing, RF-4C recon. operations and training; 507th Tactical Air Control Wing, manages 407L/485L tactical air control systems. Base activated Aug. 30, 1941; named for 2d Lt. Ervin D. Shaw, one of the first Americans to see air action in WW I, killed in action in France July 9, 1918, when his Bristol fighter was shot down during a reconnaissance mission. Area 3,269 acres; supports another 8,038 acres. Altitude 244 ft. Military 4,928; civilians 580. Payroll \$79 million. Housing: 389 officer; 1,315 NCO; 16 transient. 45-bed hospital.

Shemya AFB, Alaska (APO Seattle 98736); located at western tip of the Aleutian Islands chain, midway between Anchorage, Alaska, and Tokyo, Japan. Phone (907) 572-3000; AUTOVON (317) 572-3000. AAC base. Activated in 1943. Shemya was used as a bomber base in WW II. The International Date Line has been bent around Shemya so the local date is the same as elsewhere in the US. Area about 4.5 mi. long by 2.5 mi. wide. Altitude 270 ft. Military 547. Payroll \$7.5 million. Housing: 70 transient. Dispensary.

Sheppard AFB, Tex. 76311; 4 mi. N of Wichita Falls. Phone (817) 851-6266; AUTOVON 736-1001. ATC base. Sheppard Technical Training Center provides resident courses in aircraft maintenance, civil engineering, communications, missile, comptroller, transportation, and instructor training. The 3785th Field Training Gp. provides specialized and advanced training at 70 field training detachments and 19 operating locations worldwide. The School of Health Care Sciences provides training in medicine, dentistry, nursing, biomedical sciences, and health services administration. 80th Flying Training Wing provides undergraduate pilot training for German and Royal Netherlands Air Forces as well as fixed-wing transition training for USAF helicopter pilots. Base activated June 14, 1941; named for Morris E. Sheppard, US Senator from Texas, died in 1941. Area 5,000 acres. Altitude 1,015 ft. Military 7,600; civilians 3,600. Payroll \$170 million. Housing: 200 officer; 1,087 NCO. 315-bed hospital.

Tinker AFB, Okla. 73145; 8 mi. SE of Oklahoma City. Phone (405) 732-7321; AUTOVON 735-1110. AFLC base. Hq. Oklahoma City Air Logistics Center, furnishes logistic support for bombers, jet engines, instruments, and electronics; Hq. AFCC's Southern Communications Area; 3d Combat Communications Gp.; 552d Airborne Warning and Control Wing (TAC); 507th Tactical Fighter Gp. (AFRES). Base activated May 1941; named for Maj. Gen. Clarence L. Tinker. On June 7, 1942, at the end of the Battle of Midway, General Tinker's

LB-30 (an early model B-24) apparently went down at sea after attacking retreating enemy ships. Area 4,277 acres. Altitude 1,291 ft. Military 5,500; civilians 16,200. Payroll \$409 million. Housing: 110 officer; 422 NCO. 30-bed hospital.

Travis AFB, Calif. 94535; at Fairfield, 50 mi. NE of San Francisco. Phone (707) 438-4011; AUTOVON 837-1110. MAC base. Hq. 22d Air Force; 60th Military Airlift Wing; 349th Military Airlift Wing (AFRES Assoc.); 307th Air Refueling Gp. (SAC); David Grant Medical Center. Base activated May 25, 1943; named for Brig. Gen. Robert F. Travis, killed Aug. 5, 1950, in a B-29 accident. Area 6,170 acres. Altitude 62 ft. Military 9,936; civilians 2,376. Payroll \$137.7 million. Housing: 341 officer; 1,826 NCO; 584 transient (incl. 40 transient living quarters, 204 VOQ, 188 VAQ, 83 Aerial Port quarters with cooking facilities, 69 Aerial Port quarters without cooking facilities). 280-bed hospital.

Tyndall AFB, Fla. 32403; 13 mi. E of Panama City. Phone (904) 283-1113; AUTOVON 970-1110. TAC base. Home of the Air Defense Weapons Center, a single DoD unit for centralization of operational and technical expertise on air defense. Conducts weapons-firing programs and evaluation for fighter-interceptor pilots; tests new air defense-related equipment and tactics. Tenants include Air Force Engineering and Services Center; 3625th Technical Training Sqn. (ATC); 678th Air Defense Gp. (TAC); 2021st Communications Sqn. (AFCC); and TAC NCO Academy East. Base activated Dec. 7, 1941; named for 1st Lt. Frank B. Tyndall, WW I fighter pilot, killed July 15, 1930, in crash of P-1 near Mooresville, N. C. Area 28,000 acres. Altitude 18 ft. Military 4,100; civilians 1,300. Payroll \$70 million. Housing: 142 officer; 929 NCO. Dispensary and 80-bed hospital.

US Air Force Academy, Colo. 80840; 10 mi. N of Colorado Springs. Phone (303) 472-1818; AUTOVON 259-3110. Direct reporting unit; activated Apr. 1, 1954, at Lowry AFB, Colo. Moved to permanent location Aug. 1958. Tenant units include 1876th Communications Sqn.; Frank J. Seiler Research Lab (AFSC); DoD Medical Exam Review Board; Det. 470 of AF Audit Agency; 557th Flying Training Sqn. (ATC). Area 18,000 acres. Altitude 7,280 ft. Military 2,437; civilians 1,777. Payroll \$104.2 million. Housing: 622 officer; 621 enlisted; 18 transient. 70-bed hospital.

Vance AFB, Okla. 73701; 3 mi. SSW of Enid. Phone (405) 237-2121; AUTOVON 962-7110. ATC base. 71st Flying Training Wing, undergraduate pilot training. Base activated Nov. 1941; named for Lt. Col. Leon R. Vance, Jr., native of Enid, 1939 West Point graduate, Medal of Honor recipient, killed July 26, 1944, when the air-evac plane returning him to the US went down in the Atlantic near Iceland. Area 1,811 acres. Altitude 1,307 ft. Military 1,400; civilians 1,300. Payroll \$37 million. Housing: 119 officer; 111 NCO; 1 transient. Clinic.

Vandenberg AFB, Calif. 93437; 8 mi. NNW of Lompoc. Phone (805) 866-1611; AUTOVON 276-1110. SAC base. Site of 1st Strategic Aerospace Div. (SAC); Space and Missile Test Organization (AFSC); Western Space and Missile Test Center (AFSC); 6595th Aerospace Test Wing. Conducts missile crew training and provides facilities and support for operational ICBM tests; research and development testing of USAF space and ballistic missile programs; and unmanned polar-orbiting space operations of USAF, NASA contractors, foreign allies, and others. Vandenberg is the only base that launches operational ballistic missiles in the SAC deterrent force and polar-orbiting satellites in the US space program; about 1,472 such launches have taken place from Vandenberg since Dec. 1958. Originally Army's Camp Cooke. Activated Oct. 1941. Base taken over by USAF June 7, 1957; renamed for Gen. Hoyt S. Vandenberg, USAF's second Chief of Staff, died Apr. 2, 1954. Area 98,400 acres. Altitude 400 ft. Military 4,967; civilians 6,608. Payroll \$178.2 million. Housing: 538 officer; 1,645 NCO; 20 transient. 45-bed hospital.

Warren AFB (see *Francis E. Warren AFB*).

Wheeler AFB, Hawaii 96854; near center of the island of Oahu, adjacent to Army's Schofield Barracks. Phone (808) 655-1112; AUTOVON 430-0111. PACAF base. 15th Air Base Sqdn. furnishes administrative and logistic support to the Hawaiian Air Defense Div. (326th Air Div.); Air Defense Control Center, Far East; tactical air support sqdn. Also supports US Army flying activities from Schofield Barracks. Base activated Feb. 1922; named for Maj. Sheldon H. Wheeler, who became CO of Luke Field, Hawaii, in 1919 and was killed there July 13, 1921, when his biplane crashed during aerial exhibition. Area 1,369 acres. Altitude 845 ft. Military 500; civilians 140. Payroll included in entry for Hickam AFB. Housing: 102 officer; 390 NCO. Dispensary.

Whiteman AFB, Mo. 65305; 1.5 mi. S of Knob Noster. Phone (816) 687-1110; AUTOVON 975-1110. SAC base. 351st Strategic Missile Wing. Base activated in 1942; named for 2d Lt. George A. Whiteman, shot down while taking off in a fighter from Wheeler Field, Hawaii, on Dec. 7, 1941, the first Army Air Forces airman to be shot down in WW II. Area 3,384 acres, plus missile complex of about 10,000 sq. mi. Altitude 869 ft. Military 3,168; civil-

ians 430. Payroll \$42.7 million. Housing: 209 officer; 783 NCO; 57 transient (incl. 19 VOO, 4 guest houses, and 34 VAO). 10-bed hospital.

Williams AFB, Ariz. 85224; 16 mi. SE of Mesa. Phone (602) 988-2611; AUTOVON 474-1001. ATC base. 82d Flying Training Wing, largest undergraduate pilot training base; also provides F-5 combat crew training for foreign students. Home of AFSC Human Resources Lab/Flying Training Div., doing extensive research on flight simulators. Base activated July 1941; named for 1st Lt. Charles D. Williams, killed in crash of a bomber near Fort De Russy, Hawaii, July 6, 1927. Area 3,867 acres. Altitude 1,385 ft. Military 3,320; civilians 1,100. Payroll \$54.5 million. Housing: 309 officer; 499 NCO; 40 transient. 25-bed hospital.

Wright-Patterson AFB, Ohio 45433; 10 mi. ENE of Dayton. Phone (513) 257-1110; AUTOVON 787-1110. AFSC base. Hq. Air Force Logistics Command; Hq. Aeronautical Systems Div. (AFSC); Foreign Technology Div. (AFSC); AF Institute of Technology; USAF Medical Center, Wright-Patterson; Air Force Museum; AF Acquisition Logistics Div.; AFSC International Logistics Center, plus

more than 70 other DoD activities and government agencies. Originally separate, Wright Field and Patterson Field were merged and redesignated Wright-Patterson AFB on Jan. 13, 1948; named for aviation pioneers Orville and Wilbur Wright and for 1st Lt. Frank S. Patterson, killed June 19, 1918, in the crash of a DH-4. The Wright brothers did much of their early flying on Huffman Prairie, now in Area C of present base. Area 8,174 acres. Altitude 824 ft. Military 7,725; civilians 15,700; contracted services employees 7,200. Payroll \$550 million. Housing: 1,090 officer; 1,245 NCO; 40 transient. 310-bed hospital.

Wurtsmith AFB, Mich. 48753; 3 mi. NW of Oscoda. Phone (517) 739-2011; AUTOVON 623-1110. SAC base. 40th Air Div.; 379th Bomb Wing. Base activated 1924 as Camp Skeel, gunnery camp for Selfridge Field; became Oscoda Army Air Field during WW II; renamed in 1953 for Maj. Gen. Paul B. Wurtsmith, killed Sept. 13, 1946, in a B-25 crash near Asheville, N. C.; assigned to SAC Apr. 1, 1960. Area 5,200 acres. Altitude 634 ft. Military 3,152; civilians 399. Payroll \$41.2 million. Housing: 290 officer; 1,065 NCO; 59 transient. 20-bed hospital.

GUIDE TO ANG AND AFRES BASES

NOTE: This section of the Guide consolidates major Air National Guard (ANG) and Air Force Reserve (AFRES) bases into a single listing. Most ANG locations are listed alphabetically, according to the city where they are located. AFRES units are listed by the names of their bases and are designated as AFRES facilities. There are, in addition, some ANG and AFRES units that are located on active-duty bases. These may be found in the main "Guide to Bases" section, beginning on an earlier page.

Anchorage, Alaska (Kulis ANG Base at Anchorage IAP) 99502. Phone (907) 243-1145; AUTOVON 752-5215. 176th Tactical Airlift Gp. (ANG). 144th Tactical Airlift Sqdn. (ANG). Named for Lt. Albert Kulis, killed in training flight in 1954. Area 101 acres. Altitude 124 ft. Military 654; civilians 167. Payroll \$7.7 million. 6-bed hospital.

Atlanta, Ga. (McCollum Airport, Kennesaw, Ga.) 30144; 27 mi. N of Atlanta. Phone (404) 422-2500; AUTOVON 925-2474. 129th Tactical Control Sqdn. and 129th Tactical Control Flight. 10 mi. from Dobbins AFB, Ga. Area 13 acres. Altitude 1,060 ft. Military 265; civilians 41. Payroll through Dobbins.

Atlantic City, N. J. (Federal Aviation Administration Technical Center) 08405; 10 mi. W of Atlantic City. Phone (609) 641-8200; AUTOVON 234-1980. 177th Fighter Interceptor Gp. (ANG). Area 119 acres. Altitude 76 ft. Military 835; civilians 279. Payroll \$8.4 million.

Baltimore, Md. (Glenn L. Martin State Airport) 21220; 8 mi. E of Baltimore. 175th Tactical Fighter Gp. (ANG). Phone (301) 687-6270; AUTOVON 235-9210. 135th Tac Airlift Gp. (ANG). Phone (301) 687-6270; AUTOVON 235-9210. Area 750 acres. Altitude 89 ft. Military 1,650; civilians 314. Payroll \$10.6 million.

Bangor, Me. International Airport 04401; 4 mi. NW of Bangor. Phone (207) 947-0571; AUTOVON 476-6210. 101st Air Refueling Wing (ANG). Area 1,094 acres. Altitude 192 ft. Military 943; civilians 236. Payroll \$9.6 million. Dispensary.

Battle Creek ANG Base, Mich. 49016; located adjacent to W. K. Kellogg Airport. Phone (616) 963-1596; AUTOVON 889-3691. 110th Tactical Air Support Gp. (ANG). Area 89 acres. Altitude 941 ft. Military 728; civilians 148. Payroll \$5.1 million.

Birmingham Municipal Airport, Ala. (Smith ANG Base) 35217. Phone (205) 591-8160; AUTOVON

694-2260. 117th Tactical Reconnaissance Wing (ANG). ANG base named for Col. Sumpter Smith, who played an important part in promoting the development of Birmingham's airport. Area 86 acres. Altitude 650 ft. Military 1,157; civilians 257. Payroll \$10.2 million.

Boise Air Terminal, Idaho (Gowen Field) 83701; 6 mi. S of Boise. Phone (208) 385-5339; AUTOVON 941-5011. 124th Tactical Reconnaissance Gp. (ANG). Also host to ARNG (Army Field Training site) and Marine Corps Reserve. Airport named for Lt. Paul R. Gowen, killed in B-10 crash in Panama, July 11, 1938. Area 2,600 acres (467 acres military). Altitude 2,858 ft. Military 910; civilians 230. Payroll \$7.8 million. Limited transient facilities available during Army Guard camps.

Buckley ANG Base, Colo. 80011; 8 mi. E of Denver. Phone (303) 390-9011; AUTOVON 877-9011. 140th Tactical Fighter Wing (ANG); also host to Navy Reserve, Marine Corps Reserve, ARNG, and Air Force units. Base activated Apr. 1, 1942, and used as a gunnery training facility. ANG assumed control from US Navy in 1959. Named for Lt. John H. Buckley, National Guardsman, killed at Argonne, France, Sept. 27, 1918. Area 3,262 acres. Altitude 5,663 ft. Military 1,862; civilians 767. Payroll \$14.6 million. Dispensary.

Burlington, Vt. (Burlington International Airport) 05401; 3 mi. E of Burlington. Phone (802) 658-0770; AUTOVON 689-4310. 158th Defense Systems Evaluation Gp. (ANG). Area 326 acres. Altitude 371 ft. Military 727; civilians 206. Payroll \$7.1 million.

Charleston, W. Va. (Kanawha Airport) 25311; 4 mi. NE of Charleston. Phone (304) 342-6194; AUTOVON 366-9210. 130th Tactical Airlift Gp. (ANG). Area 218 acres. Altitude 981 ft. Military 833; civilians 180. Payroll \$6.4 million. Dispensary, clinic.

Charlotte, N. C. (Douglas Municipal Airport) 28219. Phone (704) 399-6363; AUTOVON 583-9210. 145th Tactical Airlift Gp. (ANG). Area 49 acres. Altitude 749 ft. Military 984; civilians 183. Payroll \$7.7 million. 4-bed dispensary.

Cheyenne, Wyo. (Cheyenne Municipal Airport) 82001. Phone (307) 772-6201; AUTOVON 943-6201. 153d Tactical Airlift Gp. (ANG). Area 46 acres. Altitude 6,156 ft. Military 700; civilians 183. Payroll \$6.1 million.

Dallas Naval Air Station, Tex. (Hensley Field)

75211. Phone (214) 266-6111; AUTOVON 874-6111. 136th Tactical Airlift Wing (ANG). 181st Weather Flight. 531st USAF Band. Area 49 acres. Altitude 495 ft. Military 906; civilians 191. Payroll \$7.7 million.

Des Moines Municipal Airport, Iowa 50321; in city of Des Moines. Phone (515) 285-7182; AUTOVON 939-8210. 132d Tactical Fighter Wing (ANG). Area 112.1 acres. Altitude 957 ft. Military 844; civilians 236. Payroll \$7.4 million.

Dobbins AFB, Ga. 30060; 2 mi. S of Marietta; 16 mi. NW of Atlanta. Phone (404) 424-8811; AUTOVON 925-1110. AFRES base. Hq. 14th Air Force (AFRES); 94th Tactical Airlift Wing (AFRES); 116th Tactical Fighter Wing (ANG). Base activated in 1943; named for Capt. Charles Dobbins, WW II pilot killed in action near Sicily. Area 2,214 acres. Altitude 1,068 ft. Military 142; civilians 756; Reserve 1,523. Payroll \$29.4 million. Housing: 3 officer; 6 NCO. Dispensary.

Duluth International Airport, Minn. 55811; 5 mi. NW of Duluth. Phone (218) 727-6886; AUTOVON 825-7210. 148th Tactical Reconnaissance Gp. (ANG). USAF base also located at airport. Area 152 acres. Altitude 1,429 ft. Military 863; civilians 230. Payroll \$7.8 million.

Fargo, N. D. (Hector Field) 58105. Phone (701) 237-6030; AUTOVON 362-8110. 119th Fighter Interceptor Gp. (ANG). Area 133 acres. Altitude 900 ft. Military 1,154; civilians 266. Payroll \$9.3 million.

Forbes Field, Kan. 66620; 5 mi. S of Topeka. Phone (913) 862-1234; AUTOVON 720-4210. 190th Air Refueling Gp. (ANG). Area 486 acres. Altitude 1,079 ft. Military 680; civilians 261. Payroll \$7.8 million.

Fort Smith Municipal Airport, Ark. (Ebing ANG Base) 72906. Phone (501) 646-1601; AUTOVON 962-8210. 188th Tactical Fighter Gp. (ANG). Area 95 acres. Altitude 468 ft. Military 804; civilians 212. Payroll \$6.9 million.

Fort Wayne, Ind. (Fort Wayne Municipal Airport) 46809; 5 mi. SSW of Fort Wayne. Phone (219) 747-4141; AUTOVON 889-1550. 122d Tactical Fighter Wing (ANG). 235th Air Traffic Control Flight, 163d Weather Flight. Area 87 acres. Altitude 800 ft. Military 890; civilians 248. Payroll \$8.0 million.

Fresno Air Terminal, Calif. 93727; 5 mi. NE of Fresno. Phone (209) 252-4041; AUTOVON 949-9210. 26th NORAD Region and 26th Air Division

(TAC); 194th Fighter Interceptor Sqdn. (TAC); 144th Fighter Interceptor Wing (ANG). Area 139 acres. Altitude 332 ft. Military 919; civilians 292. Payroll \$9.4 million.

Gen. Billy Mitchell Field, Wis. 53207; SE of Milwaukee. AFRES base. Altitude 722 ft. ANG and AFRES have separate phones and facilities. ANG phone (414) 747-4410; AUTOVON 580-8410. 128th Air Refueling Gp. and 128th Tactical Control Flight (ANG). ANG: Area 65 acres. Military 916; civilians 228. Payroll \$7.8 million. AFRES phone (414) 481-6400; AUTOVON 786-9110. 440th Tactical Airlift Wing (AFRES). AFRES: Area 99 acres. Military 5; civilians 179; Reserve 1,069. Payroll \$11.4 million.

Greater Peoria Airport, Ill. 61607; 7 mi. SW of Peoria. Phone (309) 697-6400; AUTOVON 724-9210. 182d Tactical Air Support Gp. (ANG). Area 27.9 acres. Altitude 640 ft. Military 787; civilians 156. Payroll \$5.5 million. Dispensary.

Great Falls International Airport, Mont. 59404; 5 mi. SW of Great Falls. Phone (406) 727-4650; AUTOVON 279-2301. 24th NORAD Region and 24th Air Div. (TAC); SAGE Control Center (NORAD); 120th Fighter Interceptor Gp. (ANG). Area 139 acres. Altitude 3,674 ft. Military 844; civilians 297. Payroll \$9.9 million. Dispensary.

Gulfport-Biloxi Regional Airport, Miss. 39501; within city limits of Gulfport. Phone (601) 863-8624; AUTOVON 363-8210. Training site; also host to 173d Civil Engineering Flight, 255th Combat Communications Sqdn., and the Army National Guard Transportation Repair Shop. An air-to-ground gunnery range is located 70 mi. due north of site. Area 211 acres. Altitude 28 ft. ANG military 328; civilians 18. Payroll \$0.9 million (military pay only; civilians paid through Jackson). 2-bed dispensary.

Harrisburg-Olmstead International Airport, Pa. 17057. Phone (717) 944-0471; AUTOVON 454-9210. 193d Electronic Combat Gp. (ANG). ANG area 72 acres. Altitude 310 ft. Military 1,004; civilians 214. Payroll \$10.7 million.

Houston, Tex. (Ellington AFB) 77209; 17 mi. SE of Houston. Phone (713) 481-1400; AUTOVON 954-2110. 147th Fighter Interceptor Gp. (ANG). Other tenants; NASA Operations. US Coast Guard, Army National Guard, FAA, Military Sealift Command, ANG Transition Caretaker Force. Named for Lt. Eric L. Ellington, a pilot killed Nov. 1913. Area 2,283 acres. Altitude 40 ft. Military 865; civilians 267. Payroll \$11.9 million.

Jackson Municipal Airport, Miss. (Allen C. Thompson Field) 39208; 7 mi. E of Jackson. Phone (601) 939-3633; AUTOVON 731-9310. 172d Tactical Airlift Gp. (ANG). ANG area 84 acres. Altitude 346 ft. Military 794; civilians 190. Payroll \$7.3 million. 6-bed dispensary.

Jacksonville International Airport, Fla. 32229; 15 mi. NW of Jacksonville. Phone (904) 757-1360; AUTOVON 460-7210. 125th Fighter Interceptor Gp. (ANG). Area 158 acres. Altitude 30 ft. Military 959; civilians 289. Payroll \$9.5 million. 5-bed dispensary.

Knoxville, Tenn. (McGhee Tyson Airport) 37901; 10 mi. SW of Knoxville. Phone (615) 573-0111; AUTOVON 588-8210. Host unit is 134th Air Refueling Gp. (ANG). Tenants: 228th Combat Communications Sqdn., 152d Band (ANG), ANG's I. G. Brown Professional Military Education Center. Area 287 acres. Altitude 980 ft. Military 1,147; civilians 301. Payroll \$10.0 million. Dispensary.

Lincoln Municipal Airport, Neb. 68524; 3 mi. NW of Lincoln. Phone (402) 477-3904; AUTOVON 939-1700. 155th Tactical Reconnaissance Gp. (ANG). Also hosts Army National Guard and Army Reserve unit. Area 163 acres. Altitude 1,198 ft. Military 917; civilians 226. Payroll \$7.4 million. Dispensary.

Louisville, Ky. (Standiford Field) 40213. Phone (502) 566-9400; AUTOVON 989-4400. 123d Tactical Reconnaissance Wing (ANG). Area 65 acres. Altitude 497 ft. Military 988; civilians 233. Payroll \$7.9 million.

Mansfield Lahm Airport. Ohio 44901; 3 mi. N of Mansfield. Phone (419) 524-4621; AUTOVON 889-1520. 179th Tactical Airlift Gp. (ANG). Named for aviation pioneer Brig. Gen. Frank P. Lahm. Area 210 acres. Altitude 1,296 ft. Military 769; civilians 178. Payroll \$5.9 million. Dispensary.

Martinsburg, W. Va. (Eastern West Va. Regional Airport) 25401; 4 mi. S of Martinsburg. Phone (304) 263-0801; AUTOVON 242-9210. 167th Tactical Airlift Gp. (ANG). Area 279 acres. Altitude 556 ft. Military 847; civilians 177. Payroll \$6.0 million. Dispensary.

McEntire ANG Base, S. C. 29044; 12 mi. E of Columbia. Phone (803) 776-5121; AUTOVON 583-8201. 169th Tactical Fighter Gp. (ANG). Also host to Army Guard aviation unit. Base named for Brig. Gen. B. B. McEntire, Jr. (ANG), killed in an F-104 in 1961. Area 2,394 acres. Altitude 250 ft. Military 972; civilians 238. Payroll \$7.8 million. Dispensary.

Memphis International Airport, Tenn. 38118; 10 mi. S of Memphis. Phone (901) 363-1212; AUTOVON 966-8111. 164th Tactical Airlift Gp. (ANG). ANG occupies 227 acres. Altitude 332 ft. Military 796; civilians 164. Payroll \$5.9 million. Clinic.

Meridian, Miss. (Key Field) 39301; within city limits. Phone (601) 693-5031; AUTOVON 363-9210. 186th Tactical Reconnaissance Gp. (ANG), 238th Combat Communications Flight, and 238th Air Traffic Control Flight. Area 74 acres. Altitude 297 ft. Military 1,065; civilians 248. Payroll \$8.2 million. 2-bed dispensary.

Minneapolis-St. Paul International Airport, Minn. 55450; in Minneapolis near junction of Mississippi and Minnesota Rivers. AFRES base. Altitude 840 ft. ANG and AFRES have separate phones and facilities. ANG phone (612) 725-5011; AUTOVON 825-5681. 133d Tactical Airlift Wing (ANG). ANG: Area 126 acres. Military 941; civilians 230. Payroll \$8.2 million. AFRES phone (612) 725-5011; AUTOVON 825-5100. 934th Tactical Airlift Gp. (AFRES). AFRES: Area 300 acres. Reservists 888; civilians 221. Payroll \$8.5 million for ANG, \$11 million for AFRES. Other units include 210th Electronic Installation Sqdn., 237th Air Traffic Control Flight; 133d Field Training Flight; Det. 1, 1963d Communications Sqdn.; US Naval Reserve units; and Defense Investigative Service.

Moffett Naval Air Station, Calif. 94035; 2 mi. N of Mountain View. 129th Aerospace Rescue and Recovery Gp. (ANG). ANG phone (415) 966-4700; AUTOVON 462-4700. Area 12 acres. Altitude 34 ft. Military 800; civilians 196. Payroll \$9.5 million.

Montgomery, Ala. (Dannelly Field) 36105; 7 mi. SW of Montgomery. Phone (205) 281-7770; AUTOVON 485-9210. 187th Tactical Reconnaissance Gp. (ANG). Hosts 232d Combat Communications Gp. Named for Ens. Clarence Dannelly, Navy pilot killed at Pensacola, Fla., during WW II. Area of base 42 acres. Altitude 221 ft. Military 1,009; civilians 270. Payroll \$10.4 million. Dispensary.

Nashville Metropolitan Airport, Tenn. 37217. 6 mi. SE of Nashville. Phone (615) 361-4600; AUTOVON 446-6210. 118th Tactical Airlift Wing (ANG). Area 66 acres. Altitude 597 ft. Military 1,044; civilians 274. Payroll \$9.3 million.

New Orleans Naval Air Station, La. (Alvin Callender Field) 70146; 15 mi. S of New Orleans. Area 3,245 acres. Altitude 3 ft. ANG and AFRES have separate phones and facilities. ANG phone (504) 394-2818; AUTOVON 363-3399. 159th Tactical Fighter Gp. (ANG). ANG: Military 771; civilians 231. Payroll \$7.1 million. AFRES phone (504) 393-3399; AUTOVON 363-3399. 926th Tactical Fighter Gp. (AFRES). AFRES 585; civilians 95. Payroll \$7.3 million. NAS New Orleans was the first joint Air Reserve Training Facility. Named for Alvin A. Callender, who served with the British Royal Flying Corps during WW I and was shot down over France in 1918. Dispensary.

Niagara Falls International Airport, N. Y. 14304; 6 mi. E of Niagara Falls. Phone (716) 297-4100; AUTOVON 489-3011. AFRES base. 914th Tactical

Airlift Gp. (AFRES); 107th Fighter Interceptor Gp. (ANG). Base activated in Jan. 1952. Area 979 acres. Altitude 590 ft. Military 3; civilians 327; Reservists 864. Payroll \$17.5 million.

O'Hare International Airport, Ill. 60666; 22 mi. NW of Chicago's Loop. Phone (312) 694-3031; AUTOVON 930-1110. AFRES base. 928th Tactical Airlift Gp. (AFRES); 126th Air Refueling Wing (ANG); Defense Contract Administration Services Region. Base activated in Apr. 1946; named for Lt. Cmdr. Edward H. "Butch" O'Hare. USN. Medal of Honor recipient, killed Nov. 26, 1943, during battle for the Gilbert Islands. Area 391 acres. Altitude 643 ft. Military 5; civilians 1,853; Reservists 1,271; ANG 1,268. Payroll \$20.5 million.

Oklahoma City, Okla. (Will Rogers World Airport) 73169; 7 mi. SW of Oklahoma City. Phone (405) 681-7551; AUTOVON 956-8210. 137th Tactical Airlift Wing (ANG). Area 71 acres. Altitude 1,290 ft. Military 1,127; civilians 218. Payroll \$7.9 million.

Ontario International Airport, Ontario, Calif. 91761. Phone (714) 984-2705; AUTOVON 898-3870. 163d Tactical Air Support Gp. (ANG). Area 39 acres. Altitude 900 ft. Military 752; civilians 138. Payroll \$6.3 million.

Otis ANG Base, Mass. 02542; 7 mi. NNE of Falmouth. Phone (617) 968-4667; AUTOVON 557-4667. 102d Fighter Interceptor Wing (ANG), 567th Band (ANG), 6th Missile Warning Sqdn. (PAVE PAWS). Other tenants include Coast Guard Air Station Cape Cod; Army National Guard Aviation; Camp Edwards ARNG Training Installation; VA National Cemetery. Named for 1st Lt. Frank J. Otis, ANG flight surgeon and pilot killed in 1937 crash. Area 22,000 acres, including ANG 4,000 acres. Altitude 132 ft. Military ANG 988; civilians 513. Payroll \$14.6 million. 1,193 housing units on base; USCG administrators 601 (10 Command, 45 Officer, 546 other ranks).

Phelps Collins ANG Base, Mich. 49707; 7 mi. W of Alpena. Phone (517) 354-4141; AUTOVON 722-3760. Training site detachment. Facilities used by ANG and AFRES units for annual field training; also ARNG and Marine Reserve for special training. Named for Capt W. H. Phelps Collins, American Flying Corps, killed in France, Mar. 1918. Area 3,217 acres. Altitude 689 ft. Military 34; no civilians. Payroll paid through Battle Creek; seasonal during field training. Housing; 86 officer; 40 NCO; 14 transient. 10-bed hospital. Dispensary.

Phoenix, Ariz. (Sky Harbor International Airport) 85034. Phone (602) 244-9841; AUTOVON 853-9211. 161st Air Refueling Gp. (ANG). Area 51 acres. Altitude 1,230 ft. Military 893; civilians 258. Payroll \$8.7 million.

Pittsburgh ANG Base/Greater Pittsburgh International Airport, Pa. 15231; 15 mi. NW of Pittsburgh. Altitude 1,203 ft. AFRES base. ANG and AFRES have separate phones and facilities. ANG phone (412) 264-3380; AUTOVON 936-1760. 171st Air Refueling Wing and 112th Tactical Fighter Gp. (ANG). ANG: Area 90 acres. Military 1,398; civilians 372. Payroll \$12.4 million. AFRES phone (412) 264-5000; AUTOVON 277-8000. 911th Tactical Airlift Gp. (host unit). AFRES: Area 165 acres. Military 21; civilians 180; Reservists 1,010. Payroll \$10.4 million. Other units include 2046th Communications Installation Gp. (AFCC); USAF Liaison, Pa. CAP. Base activated 1943. 50 VOQ. 224 enlisted qtrs.

Portland International Airport, Portland, Ore. 97218. Phone (503) 288-5611; AUTOVON 891-1701. 142d Fighter Interceptor Gp. (ANG). Also host to 304th Aerospace Rescue and Recovery Sqdn. (AFRES), 83d Aerial Port Sqdn. (AFRES). Area 394 acres. Altitude 26 ft. Military 2,338; civilians 123. Payroll \$15 million.

Providence, R. I. (Quonset Point State Airport) 02852; 20 mi. S of Providence. Phone (401) 885-3960; AUTOVON 476-3210. 143d Tactical Airlift Gp. (ANG). Area 79 acres. Altitude 9 ft. Military 882; civilians 185. Payroll \$8.4 million.

Reno, Nev. (Cannon International Airport)—May

ANG Base) 89502; 5 mi. SE of Reno. Phone (702) 323-1011; AUTOVON 830-8310. 152d Tactical Reconnaissance Gp. (ANG). Named for Maj. Gen. James A. May, state Adjutant General. Area 123 acres. Altitude 4,411 ft. Military 823; civilians 216. Payroll \$7.2 million. Dispensary.

Richards-Gebaur AFB, Mo. 64030; 17 mi. S of Kansas City. Phone (816) 348-2000; AUTOVON 465-1110. AFRES base. 442d Tactical Airlift Wing (AFRES); 1879th Communications Sqdn. (AFCC); Det. 12, 17th Weather Wing (MAC). Base activated Mar. 1944; named for 1st Lt. John F. Richards and Lt. Col. Arthur W. Gebaur. Jr. Richards was killed Sept. 26, 1918, in France, while on an artillery-spotting mission; Gebaur, an F-84 pilot, killed Aug. 29, 1952, over North Korea during his 99th mission. Area 2,418 acres. Altitude 1,090 ft. Military 323; Reservists 1,444; AFRES civilians 31. Payroll for civilians and active-duty military \$6.2 million; \$5.2 million for AFRES personnel. Housing: 27 officer; 217 NCO; 152 transient.

Richmond, Va. (Byrd Field International Airport) 23150; 4 mi. SE of downtown Richmond. Phone (804) 222-8884; AUTOVON 274-8210. 192d Tactical Fighter Gp. (ANG). Airlift named for Adm. Richard E. Byrd, famous Arctic and Antarctic explorer. Area 143 acres. Altitude 167 ft. Military 1,009; civilians 250. Payroll \$8.1 million.

Rickenbacker ANG Base, Ohio 43217; 13 mi. SSW of Columbus. Phone (614) 492-8211; AUTOVON 950-1110. Base transferred from SAC to ANG Apr. 1, 1980. SAC forces are being withdrawn through Oct. 1982. 121st Tactical Fighter Wing (ANG); 906th and 907th Tactical Airlift Gps. (AFRES); 160th Air Refueling Gp. (ANG). Base activated 1942. Formerly Lockbourne AFB. Renamed May 18, 1974, in honor of Capt. Edward V. Rickenbacker, America's leading WW I ace and Medal of Honor recipient, died July 23, 1973. Area 4,100 acres. Approximately 2,000 acres to be declared excess and turned over to General Services Administration. Some 1,500 acres shared by military and civilian concerns. Altitude 744 ft. Reserve and ANG military 3,350; active-duty USAF 100; civilians 5,050. ANG payroll \$13.9 million. On-base Capehart housing to be retained as DoD family housing.

Salt Lake City International Airport, Utah 84116; 3 mi. W of Salt Lake City. Phone (801) 521-7070; AUTOVON 790-9210. 151st Air Refueling Gp. (ANG). Also hosts following ANG units: 109th Tactical Control Flight, 106th Tactical Control Flight, 130th Electronic Installation Sqdn., 299th Communications Sqdn. Area 75 acres. Altitude 4,220 ft. Military 1,222; civilians 308. Payroll \$9.6 million. Dispensary.

San Juan, Puerto Rico (Muniz ANG Base at San Juan IAP) 00913. Phone (809) 791-5450; AUTOVON 434-1860. 156th Tactical Fighter Gp. (ANG). Base named for Lt. Col. José A. Muniz, killed in an aircraft accident July 4, 1960. Area 25 acres. Military 959; civilians 207. Payroll \$9.2 million. Dispensary.

Savannah Municipal Airport, Ga. 31402; 4 mi. NW of Savannah. Phone (912) 964-1941; AUTOVON 860-8210. 165th Tactical Airlift Gp. (ANG). Also field training site. Area 231 acres. Altitude 50 ft. Military 632; civilians 208. Payroll \$9.0 million. Housing: 156 officer; 100 NCO. 3-bed dispensary.

Schenectady County Airport, N. Y. 12301; 2 mi N of Schenectady. Phone (518) 372-5621; AUTOVON 974-9221. 109th Tactical Airlift Gp. (ANG). Area 106 acres. Altitude 378 ft. Military 765; civilians 182. Payroll \$6.4 million. Dispensary.

Selfridge ANG Base, Mich. 48045; 3 mi. NE of Mount Clemens. Phone (313) 466-4011; AUTOVON 273-0111. 127th Tactical Fighter Wing (ANG); 191st Fighter Interceptor Gp. (ANG); 403d Rescue and Weather Reconnaissance Wing (AFRES); 927th Tactical Airlift Gp. (AFRES); also hosts Navy Reserve, Marine Air Reserve, Army Reserve, Army units, and US Coast Guard Air Station for Detroit. Base activated July 1917, and transferred to Mich. ANG, July 1971. Named for 1st Lt.

Thomas E. Selfridge, first Army officer to fly an airplane and first fatality of powered flight, killed Sept. 17, 1908, at Fort Myer, Va., when plane piloted by Orville Wright crashed. Area 3,629 acres. Altitude 583 ft. Military ANG 1,528; civilians ANG 925. Payroll \$24.0 million. Housing: 12 transient. Dispensary.

Sioux City Municipal Airport, Iowa 51110; 7 mi. S of Sioux City. Phone (712) 255-3511; AUTOVON 939-6210. 185th Tactical Fighter Gp. (ANG). Area 114 acres. Altitude 1,098 ft. Military 731; civilians 201. Payroll \$6.9 million. Dispensary.

Sioux Falls, S. D. (Joe Foss Field) 57104; N side of Sioux Falls. Phone (605) 336-0670; AUTOVON 939-7210. 114th Tactical Fighter Gp. (ANG). Named for Brig. Gen. Joseph J. Foss, WW II ace, former governor of South Dakota and National President of AFA, founder of the South Dakota ANG. Area 145 acres. Altitude 1,428 ft. Military 767; civilians 209. Payroll \$6.7 million.

Springfield, Ill. (Capitol Airport) 62707; NW of Springfield. Phone (217) 753-8850; AUTOVON 631-8210. 183d Tactical Fighter Gp. (ANG). Area 70 acres. Altitude 592 ft. Military 940; civilians 247. Payroll \$8.2 million. Dispensary.

Springfield Municipal Airport, Ohio 45501; 5 mi. S of Springfield. Phone (513) 323-8653; AUTOVON 346-2210. 178th Tactical Fighter Gp. (ANG). Area 113 acres. Altitude 1,052 ft. Military 1,073 ANG; civilians 240. Payroll \$8.8 million. 6-bed dispensary.

St. Joseph, Mo. (Rosecrans Memorial Airport) 64503; 4 mi. W of St. Joseph. Phone (816) 364-2941; AUTOVON 720-9210. 139th Tactical Airlift Gp. (ANG). Area 298 acres. Altitude 724 ft. Military 670; civilians 175. Payroll \$6.1 million.

St. Louis International Airport, Mo. (Lambert Field) 63145. Phone (314) 263-6356; AUTOVON 693-6356. 131st Tactical Fighter Wing (ANG), 139th Combat Communications Flight, 241st Air Traffic Control Flight, 110th Weather Flight, 571st USAF Band. Area 50 acres. Altitude 589 ft. Military 1,201; civilians 294. Payroll \$12.0 million.

Suffolk County Airport, Westhampton Beach, N. Y. 11978; within corporate limits of Westhampton Beach. Phone (516) 288-4200; AUTOVON 456-7210. 106th Aerospace Rescue and Recovery Gp. (ANG). Area 70 acres. Altitude 67 ft. Military 739; civilians 184. Payroll \$6.0 million.

Syracuse, N. Y. (Hancock Field) 13211; 5 mi. NE of Syracuse. Phone (315) 458-5500; AUTOVON 587-9110. 174th Tactical Fighter Wing (ANG). Tenants are 108th Tactical Control Flt. (ANG), and base operations for Hancock AFB (NORAD site on remote part of Syracuse Hancock International Airport). Area 443 acres. Altitude 421 ft. Military 910; civilians 232. Payroll \$7.1 million. Dispensary.

Terre Haute, Ind. (Hulman Field) 47803; 5 mi. E of Terre Haute. Phone (812) 877-2551; AUTOVON 634-1581. 181st Tactical Fighter Gp. (ANG). Area 279 acres. Altitude 585 ft. Military 835; civilians 218. Payroll \$7.4 million. 5-bed dispensary.

Toledo Express Airport, Swanton, Ohio 43558; 14 mi. W of Toledo. Phone (419) 866-2078; AUTOVON 580-2110. 180th Tactical Fighter Gp. (ANG); hosts 555th USAF Band. Area 79 acres. Altitude 684 ft. Military 886; civilians 203. Payroll \$8.0 million. 4-bed clinic.

Truax Field, (Dane Co. Regional Airport), Madison, Wis. 53704; 2 mi. N of Madison. Phone (608) 241-6200; AUTOVON 273-8210. 128th Tactical Air Support Wing (ANG). Activated June 1942, as AAF base, taken over by Wis. ANG in Apr. 1968. Named for Lt. T. L. Truax, killed in P-40 training accident in 1941. Area 153 acres. Altitude 862 ft. Military 834; civilians 163. Payroll \$6.4 million. Housing: 7 transient. Dispensary.

Tucson International Airport, Ariz. 85734; within Tucson city limits. Phone (602) 748-1110; AUTOVON 361-1110. 162d Tactical Fighter Gp. (ANG). Area 49 acres. Altitude 2,650 ft. Military 1,057; civilians 402. Payroll \$12.3 million.

Tulsa International Airport, Okla. 74115. Phone (918) 836-0381; AUTOVON 956-5297. 138th Tactical Fighter Gp. (ANG). 125th Weather Flight (ANG). Area 78 acres. Altitude 676 ft. Military 753; civilians 195. Payroll \$6.4 million.

Van Nuys ANG Base, Calif. (Van Nuys Airport) 91409. Phone (213) 781-5980; AUTOVON 873-6310. 146th Tactical Airlift Wing (ANG), 147th Combat Communications Sqdn. (Contingency), 195th Weather Flight, 562d USAF Band. Area 62 acres. Altitude 799 ft. Military 1,442; civilians 306. Payroll \$11.6 million.

Volk Field ANG Base, Wis. 54618; 90 mi. NW of Madison. Phone (608) 427-3341; AUTOVON 884-3480. ANG Permanent Field Training Site, including air-to-air and air-to-ground gunnery ranges, to provide training for ANG flying units. Named for Lt. Jerome A. Volk, first Wisconsin ANG pilot killed in Korean War. Base area 7,629 acres. Altitude 915 ft. Military 41; no civilians. Payroll \$0.1 million (military pay only).

Westfield, Mass. (Barnes Municipal Airport) 01085; 3 mi. N of Westfield. Phone (413) 562-3691; AUTOVON 893-1470. 104th Tactical Fighter Gp. (ANG). Area 133 acres. Altitude 270 ft. Military 838; civilians 193. Payroll \$7.9 million.

Westover AFB, Mass. 01022; 5 mi. NE of Chicopee Falls. Phone (413) 557-1110; AUTOVON 589-1110. AFRES base. 439th Tactical Airlift Wing (AFRES). Also home of Army, Navy, and Marine Corps Reserve and Massachusetts Army National Guard. Base dedicated Apr. 6, 1940; named for Maj. Gen. Oscar Westover, Chief of the Air Corps, killed Sept. 21, 1938, in crash near Burbank, Calif. Area 2,500 acres. Altitude 244 ft. Reservists 1,952; civilians (AFRES and tenant units) 447. Payroll \$19.7 million. Housing: 313 family quarters; 432 dormitory rooms; 25 VOQ; 174 BOQ.

White Plains, N. Y. (Westchester County Airport) 10604; 8 mi. NE of White Plains. Phone (914) 946-9511; AUTOVON 456-9210. 105th Tactical Air Support Gp. (ANG). Area 692 acres; ANG base 27 acres. Altitude 439 ft. Military 786; civilians 151. Payroll \$7.6 million. Dispensary.

Willow Grove NAS (Air Reserve Facility), Pa. 19090; 14 mi. N of Philadelphia. ANG and AFRES have separate phones and facilities. Altitude 356 ft. ANG phone (215) 441-1500; AUTOVON 991-1500. 111th Tactical Air Support Gp. (ANG). ANG: Area 1,000 acres. Military 676; civilians 132. Payroll \$5.4 million. AFRES phone (215) 443-1062; AUTOVON 991-1062. 913th Tactical Airlift Gp. (AFRES). AFRES: Area 162 acres. Civilians 112; Reservists 705. Payroll \$7.6 million. Other units who use this facility include Army, Navy, and Marine Corps Reserve; 1998th Communications Sqdn. (AFCC); Defense Contract Administration Services Region, Philadelphia; 92d Aerial Port Sqdn. (MAC) as offbase tenant. Base activated Aug. 1958. Navy transient qtrs. available to Navy personnel only.

Wilmington, Del. (Greater Wilmington Airport) 19720; 5 mi. S of Wilmington. Phone (302) 322-2261; AUTOVON 455-9000. 166th Tactical Airlift Gp. (ANG); Army National Guard 198th Aviation Company. Area 57 acres. Altitude 80 ft. Military 813; civilians 176. Payroll \$6.2 million. 2-bed dispensary.

Windsor Locks, Conn. (Bradley International Airport) 06096; 15 mi. N of Hartford. Phone (203) 623-8291; AUTOVON 636-8310. 103d Tactical Fighter Gp. (ANG), and Army National Guard Aviation battalion. Named for Lt. Eugene M. Bradley, killed in P-40 crash in Aug. 1941. Area 158 acres. Altitude 173 ft. Military 837; civilians 191. Payroll \$7.6 million.

Youngstown Municipal Airport, Ohio 44473; 16 mi. N of Youngstown. Phone (216) 856-1645; AUTOVON 346-9211. AFRES base. 910th Tactical Fighter Gp. (AFRES); 757th Tactical Fighter Sqdn. (AFRES). Base activated 1952. Area 226 acres. Altitude 1,784 ft. Reservists 736; civilians 221. Payroll \$9.4 million.

A GUIDE TO USAF'S R&D FACILITIES

Principal AFSC R&D Facilities

From AFSC headquarters at Andrews AFB, Md., Gen. Robert T. Marsh, AFSC Commander, directs the operations of the command's divisions, development and test centers, ranges, and laboratories. These organizations are described below.

Product Organizations

Aeronautical Systems Division (ASD), Wright-Patterson AFB, Ohio—ASD directs the development and acquisition of aeronautical systems and related equipment. ASD comprises more than 7,000 officers, airmen, and civilians working in development programs and in conjunction with AFSC laboratory scientists and engineers.

Systems in development and production range from manned bombers, fighters, transports, trainers, and electronic countermeasures aircraft to such unmanned systems as the air-launched cruise missile and tactical air-to-ground missiles. Related equipment in development includes a night-attack system, life-support gear, flight simulators, and reconnaissance and electronic warfare subsystems. Aircraft programs under way include studies aimed at development of a strategic manned bomber, the CX transport as part of the worldwide Rapid Deployment Force, a Next Generation Trainer to replace the aging T-37, a Companion Trainer Aircraft for the economical training of SAC bomber crews, production of the EF-111A tactical jamming system, reengining and other improvements of the KC-135 aerial tanker, updating the B-52 bomber fleet with new offensive avionics for the cruise-missile carrier role, and rewinging the C-5 fleet to extend its service life. Missile programs include follow-on test and evaluation, production, and deployment of the air-launched cruise missile, test and production of the tactical Imaging Infrared Maverick missile, and Advanced Cruise Missile Technology studies.

Armament Division (AD), Eglin AFB, Fla.—The Division is charged with the planning, research, development, and acquisition of conventional air armaments and the test and evaluation of armament and electronic warfare systems and related equipments.

The four major mission areas assigned to AD are research and technology, systems development and acquisition, test and evaluation, and host and base support. This full spectrum assigns cradle-to-grave responsibility for air armaments to one organization. This synergism is further enhanced by the using command tenant organizations assigned to Eglin AFB, Fla.

The research and technology and systems development and acquisition mission areas are organized under a single manager, the Deputy Commander for Development and Acquisition, to control centrally the efforts of AD's Air Force Armament Laboratory and the development plans, systems acquisition, and acquisition logistics organizations. This one focal point ties together the basic research; exploratory development; advanced development; master planning; and conceptual, validation, full-scale engineering development, production, and deployment phases of acquisition. The elements of integrated logistics support are provided by a joint AFSC and AFLC office.

AD's 3246th Test Wing, equipped with a fleet of approximately forty aircraft and highly instrumented ground facilities, manages the Division's overall test and evaluation program. To accomplish its mission, the wing utilizes several large land test ranges scattered throughout the 724-square-mile

Eglin complex as well as 44,000 square miles of water ranges located in the adjacent Gulf of Mexico. Major tests on or above AD's ranges cover all kinds of equipment, including aircraft systems, subsystems, missiles, guns, bombs, rockets, targets and drones, high-powered radars, and airborne electronic countermeasure equipment. Equipment is tested in a variety of environments, and combat conditions are realistically simulated. One of the Test Wing's unique capabilities is the McKinley Climatic Laboratory, capable of testing military hardware as large as a bomber in environments ranging from -65 to +165 degrees Fahrenheit with 100 mph winds, icing clouds, rain, and snow.

One AD organization, the 6585th Test Group, is located at Holloman AFB, N. M. Among its unique facilities are a 50,000-foot, high-speed test track, a radar target scatter facility (RATSCAT), and the Central Inertial Guidance Test Facility (CIGTF).

Electronic Systems Division (ESD), Hanscom AFB, Mass.—ESD is responsible for development, acquisition, and delivery of electronic systems and equipment for the command control and communications functions of aerospace forces. More than 100 projects are under way, including modernization of the North American air defense with new control centers and joint-use Air Force/Federal Aviation Administration radars; satellite communications terminals for ground and aircraft use; optical and electromagnetic sensors to warn of solar-induced disruptions of the atmosphere; a triservice secure and survivable tactical communications network for air, ground, and sea forces, upgrading of the NORAD Space Operations Center; the E-3A Sentry airborne radar/direction center for Air Force and NATO; and the E-4 Airborne Command Post for the Strategic Air Command and the National Command Authorities. ESD also works directly with the major commands to plan for evolutionary command control and communications improvements.

Space Division (SD), Los Angeles AFS, Calif.—SD provides and manages the majority of the nation's military space systems. SD's responsibilities include:

- Providing and maintaining space-based communications, meteorological, navigation, and surveillance systems in support of combat forces on the ground, at sea, and in the atmosphere.
- Developing spacecraft, launch vehicles, and ground-terminal equipment to maintain and improve military space capabilities.
- Launching and controlling on-orbit satellites for DoD and other government agencies.
- Developing space defense and survivability technology to ensure protection of the nation's space assets.
- Managing DoD activities in the national Space Transportation System (Space Shuttle) being developed by NASA.
- Operating national test ranges and launch facilities to support space and missile programs for the Air Force, DoD, NASA, and other agencies.
- Operating a worldwide network of satellite tracking stations.
- The Space and Missile Test Organization, the Air Force Satellite Control Facility, and the Manned Space Flight Support Group, major field elements of SD, described below.

Ballistic Missile Office (BMO), Norton AFB, Calif.—BMO manages the research, design, development, and acquisition of DoD ballistic missile systems. BMO's mission is to plan, implement, and manage programs to acquire ballistic missile

systems and subsystems, support equipment, and related hardware. In addition, BMO provides for the alteration of missile sites and launch facilities and acts as executive agent for designated Air Force, DoD, and international missile programs.

BMO is currently managing full-scale engineering development of the MX missile system, the new land-based mobile intercontinental ballistic missile scheduled to be deployed in mid-1986.

BMO also currently provides for the Advanced Ballistic Reentry Systems triservice mission requirements.

Test Organizations

Space and Missile Test Organization (SAMTO), Vandenberg AFB, Calif.—SAMTO has two specific functions. First is the management of field test and launch operations for all DoD-directed space programs and long-range ballistic research and development programs. The other is development, management, and operation, through the Eastern and Western Space and Missile Centers, of the national test ranges.

Western Space and Missile Center (WSMC), Vandenberg AFB, Calif.—The Center is responsible for conducting launch and launch-support activities for space and missile research and development programs of the Air Force and user agencies. Stretching halfway around the world from the California coast to the Indian Ocean, the Western Test Range is operated in support of both ballistic and space test operations. The range also is used for aeronautical tests, employing the same sensors and data-gathering equipment used for ballistic and space booster flights.

Eastern Space and Missile Center (ESMC), Patrick AFB, Fla.—The Center is responsible for conducting launch and launch support activities for the Air Force and user agencies. In addition, it operates Patrick AFB. The Eastern Test Range extends more than 10,000 miles down the Atlantic into the Indian Ocean where it joins the Western Test Range to form a worldwide network. Tracking and data-gathering stations are located at Grand Bahama, Grand Turk, Antigua, and the Ascension Islands.

Air Force Satellite Control Facility (AFSCF), Sunnyvale AFS, Calif.—AFSCF develops, maintains, and operates for the Space Division a worldwide network of tracking stations to perform on-orbit tracking, data acquisition, and command and control of DoD space vehicles.

Manned Space Flight Support Group (MSFSG), Johnson Space Center, Houston, Tex.—The MSFSG is developing the capability to plan for and control DoD Space Transportation System missions and to ensure that those missions are secure. In addition, MSFSG will manage the acquisition phase of the Shuttle Operations and Planning Center portion of the Consolidated Space Operations Center. The MSFSG will also train personnel to support directly the command and control of DoD Space Shuttle missions and transition those personnel to the Space Operations Center.

Air Force Flight Test Center (AFFTC), Edwards AFB, Calif.—AFFTC conducts and supports tests of manned and unmanned aircraft and aerospace research vehicles. Included in the evaluation are flying qualities and subsystem performance, reliability, maintainability, and functional capability under climatic extremes. The Center not only supports Air Force test programs but also DoD and other government agency, foreign, and

contractor programs. Developmental testing of advanced and special mission parachutes is also conducted. AFFTC is responsible for operating the USAF Test Pilot School. Edwards AFB will serve as the landing site for the first series of Space Shuttle orbital flights and as an alternate site for subsequent flights.

Projects currently under evaluation include the F-15 and F-16 fighters, A-10 close support aircraft, the air-launched cruise missile, and the B-1.

AFFTC has management responsibility for the Utah Test and Training Range. Located in northwestern Utah, the range has 1,700,000 acres of land. Use of the range covers many development test and evaluation programs, including cruise missiles and remotely piloted vehicles. The Tactical Air Command and Strategic Air Command also conduct operations test and evaluation training programs.

Arnold Engineering Development Center (AEDC), Arnold AFS, Tenn.—AEDC has the largest complex of advanced aerospace flight simulation test facilities in the Western world. The Center operates more than thirty test units—including wind tunnels, altitude test cells, space chambers, and aeroballistics ranges—in which flight conditions can be simulated from sea level to altitudes of 1,000 miles, and from subsonic speeds to more than 20,000 mph.

AEDC's mission is to assist in ensuring that aircraft, missiles, spacecraft, jet and rocket propulsion systems, and other aerospace hardware meet specified requirements the first time launched or flown. Problems encountered with operational systems also are investigated.

Tests are conducted for the Air Force, Army, Navy, NASA, other federal agencies, and aerospace industry contractors. The development of essentially every major US aerospace program for the past quarter century has been supported by AEDC test work.

To meet flight simulation needs for the 1980s and 1990s, the Air Force is constructing the Aeropropulsion Systems Test Facility at AEDC, a complex expected to be completed in the mid-1980s. It is designed to test the large, advanced jet aircraft engine systems required for future aircraft.

Laboratories

Director of Laboratories (DL), Andrews AFB, Md.—The Director of Laboratories provides policy, planning, and technical direction to programs of the command's research and development laboratories, and monitors their operations.

Laboratories under DL and their respective functional areas are:

• **Air Force Weapons Laboratory (AFWL)**, Kirtland AFB, N. M.—AFWL conducts research and development programs in weapon effects and safety, laser technology, nuclear survivability/vulnerability, and advanced weapons concepts.

• **Air Force Rocket Propulsion Laboratory (AFRPL)**, Edwards AFB, Calif.—AFRPL conducts exploratory and advanced development programs for liquid, solid, and hybrid rockets; advanced rocket propellants; and associated ground-support equipment. AFRPL also conducts system support programs for other units and divisions of AFSC, other branches of the armed services, and NASA.

• **Air Force Human Resources Laboratory (AFHRL)**, Brooks AFB, Tex.—AFHRL manages and conducts research and exploratory and advanced development programs for personnel management and training. Three of AFHRL's operational divisions are also located at Brooks AFB: Personnel Research Division, Occupational and Manpower Research Division, and Computational Sciences Division. The other AFHRL divisions are the Advanced Systems Division at Wright-Patterson AFB, Ohio; the Flying Training Division at Williams AFB, Ariz.; and the Technical Training Division at Lowry AFB, Colo.

• **Air Force Geophysics Laboratory (AFGL)**, Hanscom AFB, Mass.—AFGL is the center for re-

search and exploratory development involving the terrestrial, atmospheric, and space environments. AFGL scientists study the effects of the space environment on Air Force satellites; the interactions of the ionosphere and upper atmosphere with Air Force systems; the optical properties of the atmosphere, both as a transmission medium and as an emitter of radiation; the measurement of the earth's gravity field and its crustal motions to determine their effects on ballistic missiles; and new and better ways to predict the weather and measure weather elements.

• **Air Force Office of Scientific Research (AFOSR)**, Bolling AFB, D. C.—AFOSR is the single manager of Air Force basic research. It awards grants and contracts for basic research directly related to Air Force needs. Research is selected to support the search for new knowledge and the expansion of scientific principles. AFOSR is also responsible for the activities of the Frank J. Seiler Research Laboratory and the European Office of Aerospace Research and Development.

The Frank J. Seiler Research Laboratory (FJSRL), USAF Academy, Colo.—This laboratory is engaged in basic research in physical and engineering sciences, usually centering around chemistry, applied mathematics, and aerospace mechanics. The laboratory sponsors related research conducted by the faculty and cadets of the USAF Academy.

European Office of Aerospace Research and Development (EOARD), London, England—This unit links the Air Force and the scientific communities in Europe, Africa, and the Near East. It identifies foreign technology, engineering, and manufacturing advances that can be applied to USAF requirements.

• **Air Force Wright Aeronautical Laboratories (AFWAL)**, Wright-Patterson AFB, Ohio—AFWAL includes four major organizations at Wright-Patterson AFB: the Flight Dynamics, Materials, Avionics, and Aero Propulsion Laboratories. AFWAL was established to combine common laboratory overhead, management, and support functions.

Flight Dynamics Laboratory is concerned with the development of flight-vehicle technology. Specific technical areas include structural design and durability, vehicle dynamics, aeroacoustics, vehicle equipment, mechanical subsystems, environmental control, crew escape and recovery, survivability and vulnerability, flight control, crew station design, flight simulation, performance analysis, aerodynamics, configuration synthesis, and technology integration.

Materials Laboratory conducts the complete USAF program in materials exploratory development and manufacturing technology. Areas of current emphasis include thermal protection materials; metallic and nonmetallic structural materials; aerospace propulsion materials; fluids, lubricants, and fluid-containment materials; protective coatings; electronic and electromagnetic materials; and computer-aided manufacturing.

Avionics Laboratory conducts research and development programs for reconnaissance, weapon delivery, electronic warfare, electronic technology, and avionics systems.

Aero Propulsion Laboratory conducts Air Force exploratory and advanced development programs in turbine engines, ramjets, fuels, turbine engine lubricants, aircraft fire protection, synthetic fuels, and flight vehicle power.

Special Organizational Considerations

Several additional AFSC organizations contribute to the command's technological base and, while not directly responsible to the Director of Systems Command Laboratories, they do receive his technical direction. Some are discussed below; others have been discussed in the "Special AFSC Organizations" Section.

• **Rome Air Development Center (RADC)**, Griffiss AFB, N. Y.—RADC is the principal orga-

nization charged with Air Force research and development programs related to C³I (command control communications and intelligence). RADC mission areas include communications; electromagnetic guidance and control; surveillance of ground and aerospace objects; intelligence data handling; information systems technology; ionospheric propagation; solid state sciences; microwave physics; and electronic reliability, maintainability, and compatibility. Reporting to the Commander, ESD, Hanscom AFB, Mass., RADC is also responsible for assisting in the demonstration and acquisition of selected systems and subsystems within its areas of expertise.

• **Air Force Armament Laboratory (AFATL)**, Eglin AFB, Fla.—AFATL is the principal Air Force laboratory doing research on free-fall and guided nonnuclear munitions, and airborne targets and scorers to provide the future technological base for aircraft armaments. These include bombs, dispensers, fuzes, guns, and ammunition. AFATL also provides consulting services in aircraft munition compatibility and analysis, and prediction of weapon effects. AFATL is organizationally assigned to the Armament Division at Eglin AFB, Fla.

• **Air Force Engineering and Services Center, Research and Development Division (AFESC/RD)**, Tyndall AFB, Fla.—AFESC/RD is organizationally assigned to Headquarters Air Force Engineering and Services Center. It acts as the Systems Command agent in executing civil engineering, environmental quality, and facilities energy RDT&E. AFESC/RD evaluates methods and techniques to detect, assess, control, and abate Air Force environmental problems. The Division also conducts civil engineering R&D to improve air base survivability, aircraft contingency launch and recovery surfaces, aircraft and tactical shelters, and air base equipment/facilities.

Special AFSC Organizations

Foreign Technology Division (FTD), Wright-Patterson AFB, Ohio—FTD acquires, evaluates, analyzes, and disseminates information on foreign aerospace technology, in concert with other divisions, laboratories, and centers. Information collected from a wide variety of sources is processed in unique electronic data-handling and laboratory-processing equipment and analyzed by scientific and technical specialists.

Air Force Contract Management Division (AFCMD), Kirtland AFB, N. M.—AFCMD is responsible for DoD contract management activities in twenty major contractor plants assigned to the Air Force under the DoD National Plant Cognizance Program. The AFCMD evaluates contractor performance and manages the administration of contracts executed by Air Force, Army, Navy, Defense Supply Agency, NASA, and other government purchasing agencies.

Aerospace Medical Division (AMD), Brooks AFB, Tex.—AMD is charged with management and conduct of research and development in aerospace biotechnology which support the Air Force mission. Specialized and postgraduate professional education is also conducted in medicine, dentistry, and aerospace medical subjects. AMD scientists seek to counter potential hazards and ensure maximum crew performance in all aerospace environments.

• **Wilford Hall USAF Medical Center (WHMC)**, Lackland AFB, Tex.—This 1,000-bed medical center is one of six in the Air Force and one of the largest in the Department of Defense. In addition to its primary mission of patient care, in clinical specialties, it provides more than fifty-five percent of all postgraduate medical training in the Air Force. In the Center's mission of clinical research, investigations have resulted in unprecedented advances in surgical and treatment procedures in such areas as dental work, drug therapy, internal medicine, psychiatric treatment, cancer treatment, experimental surgery, and organ transplants. As a worldwide referral center, Wilford Hall offers such

sophisticated procedures as open-heart surgery, kidney and corneal transplants, cancer therapy, and reconstruction of various parts of the body. Its care unit for newborn infants has one of the lowest infant mortality rates in the world. A computerized Tomographic Scanner, the latest in diagnostic X-ray equipment, is located here.

• **Air Force Aerospace Medical Research Laboratory (AFAMRL)**, Wright-Patterson AFB, Ohio—AFAMRL is part of the Aerospace Medical Division. It conducts behavioral and biomedical research to define the limits of human tolerance and the degradation of human performance under the conditions of environmental stress. AFAMRL also establishes design criteria and new biotechnology techniques to protect and sustain person-

nel in future aerospace systems. The four areas of laboratory research are: occupational and environmental toxic hazards in Air Force operations, safety and aircrew effectiveness in mechanical force environments, man-machine integration technology, and manned weapon-system effectiveness.

• **USAF School of Aerospace Medicine (USAFSAM)**, Brooks AFB, Tex.—The school is part of the Aerospace Medical Division. Its research mission includes both in-house and contractual work dealing with applied aspects of aeromedical research. Investigations in the Divisions of Data, Sciences, Clinical Sciences, Environmental Sciences, and Radiobiology encompass laboratory and clinical studies in biological,

environmental, and dynamic conditions that may affect the health and efficiency of aircrews. The Epidemiology Division serves as a consultant and reference laboratory to Air Force medical facilities throughout the world. One of its principal responsibilities is to give advice and assistance in the investigation of disease outbreaks at Air Force installations. USAFSAM operates the USAF Hyperbaric Treatment Center, and a twenty-four-hour worldwide consultation service.

• **USAF Occupational and Environmental Health Laboratory (OEHL)**, Brooks AFB, Tex.—OEHL provides consultation and specialized laboratory services to support requirements of occupational, radiological, environmental health, and environmental quality programs. ■

GUIDE TO NASA'S RESEARCH CENTERS

The National Aeronautics and Space Administration (NASA) operates a number of research, development, test, and evaluation (RDT&E) facilities that frequently participate in or coordinate their work with USAF R&D programs. Following is a descriptive listing of key NASA installations:

Ames Research Center, Moffett Field, Calif.—Ames conducts such laboratory and flight research as atmospheric reentry, fundamental physics, solar physics and planetary environments, materials, chemistry, life sciences, guidance and control, aircraft supersonic flight, aircraft operational problems, and V/STOL. It manages such spaceflight programs as Pioneer. Named for Dr. Joseph S. Ames (1864-1943), Chairman of the National Advisory Committee for Aeronautics (NACA) from 1927 to 1939.

Hugh L. Dryden Flight Research Center, Edwards AFB, Calif.—Dryden Flight Research Center is concerned with manned flight within and outside the atmosphere, including low-speed, supersonic, hypersonic, and reentry flight, and aircraft operations. Flight testing includes HiMAT (Highly Maneuverable Aircraft Technology), RPRVs (Remotely Piloted Research Vehicles), pivot-wing subsonic aircraft, digital fly-by-wire flight control systems, and wake vortex alleviation methods. The approach and landing tests of the Space Shuttle Orbiter were held here. Dryden will serve as a Shuttle landing site for the first four orbital flights and as a contingency landing site afterwards. Named for Dr. Hugh L. Dryden (1898-1965), Director of NACA from 1949-58, and then Deputy Administrator of the new NASA.

Goddard Space Flight Center, Greenbelt, Md.—Goddard Space Flight Center is responsible for a broad variety of unmanned earth-orbiting satellites and sounding-rocket projects. Among its projects are Orbiting Observatories, Explorers, weather satellites, and Landsat. Goddard is also the nerve center for the worldwide tracking and communications network for both manned and unmanned satellites, home of the Space Science Data Center, and manager of the Delta launch vehicle. Named for Dr. Robert H. Goddard (1882-1945), "father" of rocketry and the space age.

Jet Propulsion Laboratory, Pasadena, Calif.—Jet Propulsion Laboratory is operated for NASA under contract by the California Institute of Technology. The laboratory's primary role is investigation of the planets. It manages the Voyager and Galileo programs. JPL designed and operates the Deep Space Network, which tracks, communicates with, and commands spacecraft on lunar, interplanetary, and planetary missions.

John F. Kennedy Space Center, Fla.—The Center makes preflight tests and prepares and launches manned and unmanned space vehicles for NASA. Launches from the Pacific Coast are conducted by the KSC Western Operations Support Office at Lompoc, Calif. The two principal Shuttle launching and landing sites are at Kennedy and at Vandenberg AFB in California.

Langley Research Center, Hampton, Va.—Oldest of the NASA centers, Langley provides technology for manned and unmanned exploration of space and for improvement and extension of

performance, utility, and safety of transport, military, and general aviation aircraft. Langley devotes more than half its efforts to aeronautics. The Center also managed the Viking project that orbited and landed spacecraft on Mars in 1976, and the Scout launch vehicle program. Named for Samuel P. Langley (1834-1906), astronomer and aerodynamicist who pioneered in the theory and construction of heavier-than-air craft.

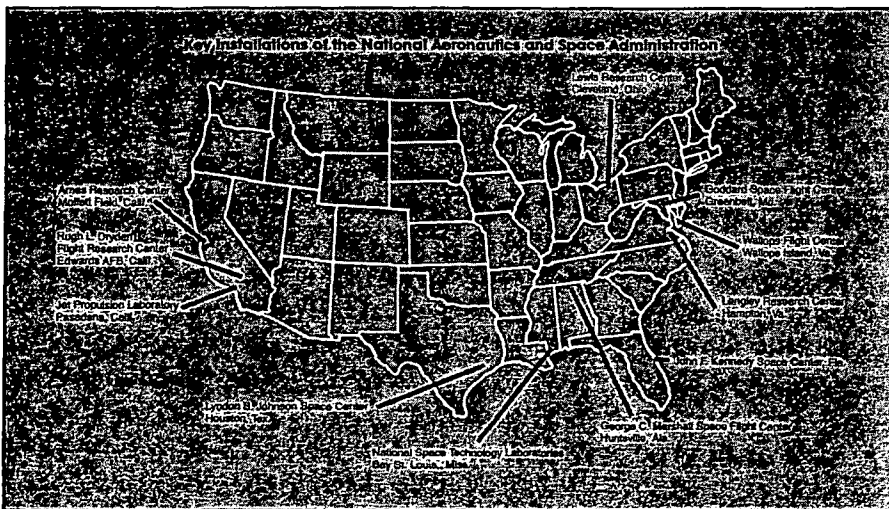
George C. Marshall Space Flight Center, Huntsville, Ala.—Marshall serves as one of NASA's primary Centers for the design and development of space transportation systems, orbital systems, scientific payloads, and other means for space exploration. The Center has major responsibilities for Space Shuttle development, testing, and fabrication, including the main engine and solid rocket boosters. Other major projects are: Spacelab, Space Telescope, High Energy Astronomy Observatories, solar electric propulsion, and space processing. It manages the Michoud Assembly Facility in New Orleans. Named for the late General of the Army George C. Marshall, recipient of the Nobel Peace Prize, who died in 1959.

Wallops Flight Center, Wallops Island, Va.—Wallops is one of the oldest and busiest ranges in the world. Some 300 experiments are sent aloft each year on vehicles that vary in size from small sounding rockets to the four-stage Scout with orbital capability. A sizable effort is devoted to aeronautical research and development.

Lewis Research Center, Cleveland, Ohio—Aircraft and rocket propulsion and energy systems for space and on earth are among the major programs of Lewis. These take the Center into such studies as metallurgy, fuels and lubricants, magnetohydrodynamics, and ion propulsion. Lewis has technical management of the Atlas-Centaur and Titan-Centaur launch vehicles and Agena rocket stage. It is the main NASA center engaged in energy activities for the Department of Energy. Named for Dr. George W. Lewis (1882-1948), NACA Director of Aeronautical Research from 1924-47.

Lyndon B. Johnson Space Center, Houston, Tex.—The Center designs, tests, and develops manned spacecraft and selects and trains astronauts. It directs the Space Shuttle program. Mission Control for manned spaceflight is located at the Center. Named for the late President Johnson, during whose Administration the US manned space program gained its greatest impetus.

National Space Technology Laboratories, Bay St. Louis, Miss.—This complex conducts developmental tests of Space Shuttle main engines and environmental and related research. ■



COMPLETED MILITARY BASE ECONOMIC ADJUSTMENT PROJECTS, 1961-77--Continued

[EXPLANATORY NOTES--College or vo-tech students: (C) College students or postsecondary vo-tech students; (S) Secondary high school vo-tech students; (T) Manpower development and other trainees. Land use: A, Aviation; Ag, Agriculture; C, Commercial; E, Education; F, Other Federal use; H, Health; Hi, Historic preservation; Ho, Housing; I, Industrial; M, Municipal; P, Park and recreation; R, Reserve or National Guard; S, State.]

Community and facility	Year of impact	Year of acquisition	Civilian jobs lost	Military transfers	New civilian jobs			Major firms/activities	College vo-tech students	Land use	Community contact
					Total jobs on base	New jobs on base	Direct off-base jobs				
Salina, Kans.: Schilling Air Force Base.	1965	1966	326	4,710	3,250	3,135	380	Beech Aircraft; Ricket Manufacturing; Tony's Pizza Inc.; Kansas Technical Institute; Westinghouse; Municipal airport.	210(C); 405(S)	A, Ag, E, Ho, I	John F. Scanlan, executive vice president Salina Airport Authority, Salina, Kans. 67401.
Topeka, Kans.: Forbes Air Force Base.	1973	1976	416	3,739	1,835	610	-----	Topeka Metal Specialists; Macmillan Publishers; state health department; municipal airport.	-----	A, I, R, S	Gary Richert, executive director, Metro Topeka Airport Authority, P.O. Box 19053, Topeka, Kans. 66619.
Lake Charles, La.: Chennault Air Force Base.	1963	1964	252	3,030	150	250	-----	Sowella Tech. of McNeese State University; Calcasieu Parish Vocational Technical School.	55(C); 320(S)	C, E, H, I, P	James E. Hoffspanir, Parish Planner, Lake Charles, La. 70601.
New Iberia, La.: New Iberia Naval Air Station.	1965	1966	85	1,025	300	200	-----	Gulf States Research Institute; Air Logistics Inc; Municipal airport.	600(C); 500(S)	A, C, E, I	Gaston Mestayer, executive director, Chamber of Commerce, New Iberia, La. 70560.
Bangor, Maine: Dow Air Force Base.	1968	1968	328	3,670	1,943	1,603	-----	General Electric, Anzac Electronics; Ansewin Shoe Co.; Jorkan Gerrill; University of Maine; municipal airport.	546(C)	A, E, Ho, I, M, R	Edward G. McKeon, Director of Development, city of Bangor, Bangor, Maine 04401.
Presque Isle, Maine: Presque Isle Air Force Base.	1961	1962	268	1,259	1,500	1,225	1,100	Aroostook Shoe Co., Maine Building Systems; Indian Head Plywood; Milliken-Tomlinson, Converse Rubber Co.; Potato-Services; Northern Maine Vocational Technical Institute; municipal airport.	380(C)	A, E, I, M, P	Larry E. Clark, executive director, Presque Isle Industrial Council, P.O. Box 831, Presque Isle, Maine 04769.
Chicopee, Mass.: Westover Air Force Base.	1974	1977	+150	4,104	300	300	-----	Quabbin Industries; Massachusetts Municipal Electric Co.; Bruck Resins.	-----	A, E, H, I, M, P, R	Eric R. Person, director of development, Westover Industrial Air Park, Westover AFB, Chicopee, Mass. 01022.
Springfield, Mass.: Springfield Arsenal.	1968	1968	2,400	20	1,528	1,500	-----	Digital Equipment Corp.; Smith & Wesson; Milton Bradley Co.; Hano Business Forms; Springfield Technical Community College.	7,600(C)	E, H, I, P	Paul Greeley, executive vice president, Springfield Chamber of Commerce, 1500 Main Street, Springfield, Mass. 01115.
Watertown, Mass.: Watertown Arsenal.	1967	1968	2,306	17	-----	-----	-----	-----	-----	P, I	Mrs. Maureen K. Oates, vice chairman, Watertown Conservation Commission; 145 Russell Avenue, Watertown, Mass. 02172.
Wadena, Minn.: Wadena Air Force Station.	1971	1973	15	130	15	15	-----	Wadena Multicounty Health Center.	-----	H	Kenneth Tomlinson, executive director, Wadena Multicounty Health Center, Wadena, Minn. 56482.
Greenville, Miss.: Greenville Air Force Base.	1965	1966	242	2,048	197	61	-----	Acme Screw Co.; Transland Aircraft; Delta Junior College manpower training; municipal airport.	240(T)	A, E, F, I, M, P	John A. Brame, airport manager, Greenville International Airport, Greenville, Miss. 38701.
Neosho, Mo.: Camp Crowder and Air Force Plant 65.	1970	1968-75	1,200	-----	2,224	1,814	655	Lazy Boy Chair Co.; Talbot Wire; Neosho Products; Honeybear Foods; Smith Brothers; Moark Production; Crowder College; municipal airport.	1,500(C); 100(T)	A, E, I, P	John C. Wright, Jr., executive vice president, Neosho Chamber of Commerce, Neosho, Mo. 64850.
Conrad, Mont.: Antiballistic Missile Sites.	1972	1975	153	20	108	108	186	Cascade Coach; Inter-Continental Truck Body; Horizon Lodge; ABM Waterline.	-----	Ag, I, M	Robert C. Arnot, Jr., president, Pondera County Economic Development Corp., Conrad, Mont. 59425.
Lewistown, Mont.: Lewistown Air Force Station.	1971	1974	27	163	35	35	-----	Montana Institute of the Bible.	225(C)	E	William Spoja, county attorney, Lewistown, Mont. 59457.
Hastings, Nebr.: Hastings Naval Ammunition Depot.	1966	1967	240	10	706	706	-----	Ebko Industries; Fleming Manufacturing Co.; Hastings Pork; Leverage Tools; Good Samaritan Retirement Center; Central Nebraska Vocational Technical School.	4,800(C)	Ag, E, H, Ho, I	Robert Siegel, executive vice president, Chamber of Commerce, Hastings, Nebr. 68901.
Lincoln, Nebr.: Lincoln Air Force Base.	1966	1966	396	4,000	818	818	750	Addressograph-Multigraph Co.; Goodyear Tire, McKee Bros. Ltd.; Brunswick; Tri-Con Ind.; Kawasaki; Lincoln Carpet; Bauer Candy; JSCO Instruments; Summit Foods; municipal airport.	-----	A, Ho, I, M	Rolland Harr, executive director, Lincoln Airport Authority, Lincoln, Nebr. 68501.
Omaha, Nebr.: Fort Omaha.	1975	1976	49	56	90	30	-----	Metropolitan Technical College.	1,690(C)	E	H. L. McCoy, assistant to the president, Metropolitan Technical College, Omaha, Nebr. 68137.
Sidney, Nebr.: Sioux Army Depot.	1967	1967	585	2	210	210	175	Agriculture Experiment Station; Plains Inc.; Sidney Manufacturing Co.; Western Nebraska Technical College; Ep-Ro Manufacturing; ICI-Midwest.	400(C)	Ag, E, Ho, I, M, S	Jack H. Lowe, director, Panhandle Growth, Inc., Sidney, Nebr. 69162.
Reno, Nev.: Stead Air Force Base.	1966	1969	519	2,542	950	800	-----	Learget; J. C. Penney District Center; University of Nevada; municipal airport.	200(C)	A, E, Ho, I, M	Robert L. Mandeville, Director of Airports, city of Reno, Reno, Nev. 89507.

See footnotes at end of table.

COMPLETED MILITARY BASE ECONOMIC ADJUSTMENT PROJECTS, 1961-77

EXPLANATORY NOTES—College or vo-tech students: (C) College students or postsecondary vo-tech students; (S) Secondary high school vo-tech students; (T) Manpower development and other trainees. Land use: A, Aviation; Ag, Agriculture; C, Commercial; E, Education; F, Other Federal use; H, Health; Hi, Historic preservation; Ho, Housing; I, Industrial; M, Municipal; P, Park and recreation; R, Reserve or National Guard; S, State.]

Community and facility	Year of impact	Year of acquisition	Civilian jobs lost	Military transfers	New civilian jobs			Major firms/activities	College, vo-tech students	Land use	Community contact
					Total jobs on base	New jobs on base	Direct off-base jobs				
Coden Ala.: Dauphin Island Air Force Station.	1971	1972	26	112	38	38	-----	University of South; Alabama (Marine environmental Science Consortium).	175(C); 165(S)	E	W. S. Pipas, executive director of development and operations, University of South Alabama, Mobile, Ala. 36688.
Mobile, Ala.: Brookley AFB and mobile air materiel area.	1965-69	1969	12,300	1,070	5,190	4,300	-----	Teledyne, Continental; International Paper; International Systems; University of South Alabama; Municipal Airport.	965(C)	A, E, F, Ho, I, M, P, R, S	David Nowlin, manager, Mobile Aerospace Industrial Complex, Mobile, Ala. 36615.
Mobile, Ala.: Theodore Army Terminal.	1965	1965	14	-----	2,075	2,075	-----	Degussa-Alabama, Inc.; Aircro Inc.; Kerr-McGee; Barnett Millwork; Union Carbide; Ideal Basic Industries.	-----	I	Ted L. Hackey, Mobile, Ala. Chamber of Commerce, P.O. Box 2187, Mobile, Ala. 36601.
Thomasville, Ala.: Thomasville Air Force Station.	1970	1971	18	110	155	137	-----	Thomasville Adult Adjustment Center.	-----	H	Charles E. Wells, director, Thomasville Adult Adjustment Center, P.O. Box 309, Thomasville, Ala. 36784.
Kenai, Alaska: Wildwood Air Force Station.	1972	1974	63	380	60	35	30	Kenai Natives Association; U.S. Public Health Service; Wagner Flooring Co.; Wildwood Construction Co.	50(T)	E, F, H, I, S	George Miller, executive director, Kenai Natives Association, P.O. Box 210, Kenai, Alaska 99661.
Kodiak, Alaska: Kodiak Air Force Station.	1975	1975	123	-----	12	12	-----	Koniag, Inc.; Emerald Maintenance Co.	-----	I, Ho	Karl Armstrong, Koniag, Inc., P.O. Box 746, Kodiak, Alaska 99615.
Benicia, Calif.: Benicia Arsenal.	1964	1965	2,321	32	3,200	3,165	-----	Exxon; Sperry Management Systems; E.T. Mag Wheels; Ace Hardware; Benicia Industries.	-----	Hi, I	Dale R. Stringfellow, President, Benicia Industries, Inc., P.O. Box 315, Benicia, Calif. 94510.
Malibu, Calif.: Nike Site 78.	1974	1974	-----	142	52	52	-----	Los Angeles County Fire and Paramedic Center.	-----	M, P	Capt. Horst Zimmerman, Los Angeles County Fire Department, Los Angeles, Calif. 90051.
Palmdale, Calif.: Nike Site 04.	1974	1976	-----	142	16	16	-----	Los Angeles County Conservation-Education Center.	39(T)	E	Charles F. Hudson, Forestry Division, County of Los Angeles, P.O. Box 3009, Terminal Annex, Los Angeles, Calif. 90051.
Rancho Palos Verdes, Calif.: Nike Site 55.	1974	1974	-----	91	64	-----	-----	City and school offices, city of Rancho Palos Verdes.	-----	E, M, P	Leonard Wood, city manager, city of Rancho Palos Verdes, 31244 Palos Verdes Drive West, Rancho Palos Verdes, Calif. 90274.
San Francisco, Calif.: Hunters Point Naval Shipyard.	1973-75	1976	4,650	1951	1,618	690	-----	Triple A Machine Shop, Inc.; University of California.	-----	I, E, F	Clifford P. LeGette, General manager, Triple A Machine Shop, Hunters Point Shipyard, San Francisco, Calif. 94124.
Torrance, Calif.: Torrance Annex, Long Beach Naval Supply Center.	1973	1974	50	-----	61	-----	-----	City of Torrance Park Facilities.	-----	E, P	Edward J. Ferraro, City Manager, City of Torrance, 3031 Torrance Boulevard, Torrance, Calif. 90503.
Ventura County, Calif.: Oxnard Air Force Base.	1970	1976	293	1,215	638	517	-----	Clifford Industries; Scintilla Co.; Gibbs Industries; Ventura County Community College; Union High School; Navy; county airport.	100(C); 800(S); 100(T)	A, E, F, I, M, P, R	Tom Volk, director of property administration, County of Ventura, 3900 Pelican Way, Oxnard, Calif. 93030.
Green Cove Springs, Fla.: Atlantic Fleet Site.	1962	1964	324	1,281	760	60	-----	Fruehauf; Kustom Karr.	-----	I, Ho	Mrs. Marjorie Long, Reynolds Industrial Park, P.O. Box 477, Green Cove Springs, Fla. 32043.
Orlando, Fla.: McCoy Air Force Base.	1974	1976	395	2,812	695	131	-----	Dawson Research; Page Airways; Florida Southern College; Valencia Community College; municipal airport.	800(C); 500(S)	A, E, I, P, R	J. F. Gillooly, project manager, Orlando Jetport Westside Development Properties, P.O. Box 19127, Orlando, Fla. 32814.
Sanford, Fla.: Sanford Naval Air Station.	1968	1969	230	646	593	410	-----	AMF INC.; BFJ Sales Inc.; Cordisco; Seminole Community College; Municipal airport.	1,400(C)	A, E, I	J. S. "Red" Cleveland, director, Sanford Airport Authority, Sanford, Fla. 32771.
Brunswick, Ga.: Glynn Naval Air Station.	1974	1976	344	1,828	470	470	-----	Federal Law Enforcement Training Center; Mech Tran Inc.; Modu-Tech Co.; Municipal airport.	650(T)	A, F, Ho, I, P	Gordon Davis, executive director, Glynn Development Authority, Brunswick Golden Isles Municipal Airport, Brunswick, Ga. 31520.
Macon, Ga.: Macon Naval Ordnance Plant.	1965	1965	958	10	1,500	1,500	-----	Allied Chemical.	-----	I	L. Thomas Murphy, Jr., Executive director, Forward Macon Inc., P.O. Box 207, Macon, Ga. 31202.
Decatur, Ill.: Decatur Army Signal Depot.	1962	1963	1,310	27	2,400	2,400	-----	Firestone Tire & Rubber.	-----	I	Leslie T. Allen, City Manager, City Hall, Decatur, Ill. 62525.
Forest Park, Ill.: Forest Park Naval Ordnance Plant.	1971	1973	1,600	6	1,250	1,250	-----	U.S. Postal Service bulk mail center.	-----	F	William McKenzie, village clerk, Forest Park, Ill. 60130.
Columbus, Ind.: Bakalar Air Force Base.	1970	1972	318	61	650	300	-----	Cummins Engine; GIBCO Diagnostics; Indiana University and Purdue University; municipal airport.	1,200(C)	A, Ag, E, I	Harvey Pouchard, manager, Columbus-Bakalar Airport, Columbus, Ind. 47201.
Terre Haute, Ind.: Defense Industrial Plant Equipment Center.	1966	1967	253	-----	850	835	-----	Jadcore Inc.; Iliana Inc.; All State; Vending; Ampacet; Ivy Hill Co.	-----	F, I	Duane Sorenson, director, Center for Economic Development, 311 Conference Center, Terre Haute, Ind. 47809.

See footnotes at end of table.

TAB C.—DEPARTMENT OF THE AIR FORCE

Installation and project	Cost (thousands)	Status
Air Force current candidates for realignment:		
Chanute AFB, Ill.:		
Composite airmen dorm (75 MCP)	\$6,267	99-percent complete.
Air pollution abatement (78 MCP)	626	Design complete.
Sewage treatment/disposal (78 MCP)	7,400	Do.
Construct commissary (NAF)	2,500	Do.
Los Angeles AFS, Calif.: None.		
Kingsley Field, Oreg.: Add to and alter runway special lighting	115	Do.
Goodfellow AFB, Tex.: Dispensary/dental clinic (75 MCP)	4,590	99-percent complete.
Rickenbacker AFB, Ohio:		
Sewage treatment/disposal facility (77 MCP)	503	Design complete.
Sewage regional connect (79 MCP)	946	40-percent design.
Air Force bases with similar missions:		
Chanute AFB, Ill.: Each Air Force technical training center is somewhat different and supports different missions. However, the Air Force bases supporting technical training in addition to Chanute are:		
Keesler AFB, Miss.:		
Composite medical facility (76 MCP)	43,140	59-percent complete.
Energy conservation (77 MCP)	1,350	37-percent complete.
Control tower (78 MCP)	642	Design complete.
Repair facility housing (75 MCP)	2,886	99-percent complete.
Improve/repair family housing (77 MCP)	2,378	42-percent complete.
Lackland AFB, Tex.:		
Add/alter composite medical facility (76 MCP)	97,550	26-percent complete.
Energy conservation (76 MCP)	1,466	83-percent complete.
Dental clinic (78 MCP)	4,700	Design complete.
Improve/repair wherry housing (76 MCP)	3,197	94-percent complete.
Lowry AFB, Colo.:		
Composite airmen dormitory (72 MCP)	4,779	99-percent complete.
Avionics training facility (78 MCP)	3,380	Design complete.
Energy monitor/control (78 MCP)	1,808	95-percent complete.
Sheppard AFB, Tex.: Cold storage facility (78 MCP)	980	Awarded April 1978.
Goodfellow AFB, Tex.: No other Air Force base has a cryptologic training mission.		
Rickenbacker AFB, Ohio: No other Strategic Air Command installation supports the combination of an Active Force squadron of KC-135's and such a significant number (4 squadrons) of Reserve Forces units.		
Los Angeles AFS, Calif.: No other Air Force Systems Command installation supports a similar space development and acquisition mission.		
Kingsley Field, Oreg.: No other Aerospace Defense Command base supports a similar air defense mission.		

5. **Question.** Despite assurances from Defense officials during hearings that the Fiscal Year 1979 Military Construction Authorization request contained no construction projects at bases that were identified as "candidates" for realignment in the recent announcements, the Senate Armed Services Committee identified and "conditionally authorized" over \$40 million for such projects. What is Defense Department policy with respect to requesting authorization for construction projects at "candidate" bases?

Answer. Basically, it is Department of Defense policy to maintain to the maximum extent, a very conservative approach when requesting authorization for projects at bases which are either candidates for realignment or alternatives to these candidates. In most instances, as noted in the response to Question 1, requests would not be made for construction authorization at installations under consideration for realignment, reduction or closure. However, there are exceptional circumstances involving compliance with on-going national programs such as energy conservation or pollution abatement which justify continuation of certain related projects at candidate bases regardless of the outcome of realignment studies. Such cases, some of which were included in the Fiscal Year 1979 Military Construction Program, receive very thorough examination before being placed under contract.

6. **Question.** The action at Lowry suggests that the Committee should perhaps examine projects at bases whose missions are similar to "candidate" bases with a view toward either eliminating projects contingent on final realignment decisions and revalidation of project requirements. Provide a list of such bases showing projects authorized for each of these bases as included in the FY 1979 Military Construction Authorization Bill reported by the Senate Armed Services Committee.

Answer. tab A, Army; tab B, Navy; and tab C, Air Force.

TAB A—DEPARTMENT OF THE ARMY

A. Training base locations (\$000):

(1) Ft. Benning, Ga.

- (b) Small Arms Maintenance Facility—\$3,645.
 (2) Ft. Bliss, Tex.
 (a) Patriot Training Facility Alterations—\$1,644.
 (b) Dental Clinic—\$1,905.
 (c) Regional Sewage Treatment Plant—\$1,209.
 (3) Ft. Dix, N.J.—None.
 (4) Ft. Gordon, Ga.
 (a) Energy Control System—\$2,201.
 (b) Heat Recovery System—\$1,906.
 (5) Ft. Jackson, S.C.
 (a) Energy Control System—\$3,300.
 (b) High Pressure Sodium Lights—\$234.
 (6) Ft. Knox, Ky.
 (a) Armor Crew Interaction Simulator—\$924.
 (b) Tank Training Facility—\$3,474.
 (c) Cold Storage Plant Renovation—\$1,002.
 (d) Dental Clinic—\$2,272.
 (e) Central Vehicle Wash Facility—\$4,724.
 (f) Energy Control System—\$2,054.
 (g) Infrared Gas Spot Heaters—\$401.
 (h) Aircraft Control Tower—\$702.
 (7) Ft. McClellan, Ala.—None.
 (8) Ft. Sill, Okla.
 (a) Tactical Equipment Shop—\$1,673.
 (b) Dental Clinic—\$1,970.
 (c) Barracks Complex, Trainee—\$17,300.
 (d) Chapel—\$845.
 (e) Insulation/Set Back Controls—\$3,109.
 (9) Ft. Leonard Wood, Mo.
 (a) Fuel Oil Storage—\$2,437.
 (b) Training Facility Improvements—\$3,118.
 (c) Storm Windows and Insulation—\$6,124.
 (d) Medical Supply Warehouse—\$2,477.
 B. Medical Center Locations (\$000)
 (1) Fitzsimmons AMC, Colo. Energy Control System—\$1,436.
 (2) Brooke AMC, Tex.—None.
 (3) Dwight David Eisenhower AMC, Ga.—None.
 (4) Walter Reed AMC, D.C. Medical Administration and Support Facility—\$3,524.
 (5) Tripler AMC, Hawaii—None.
 (6) Madigan AMC, Wash. Surgical and OB Ward Addition—\$3,307.
 (7) William Beaumont AMC, Tex.—None.
 (8) Letterman AMC, Calif. Energy Control System—\$368.

TAB B.—DEPARTMENT OF THE NAVY

Current candidate for realignment	Bases with similar missions	Fiscal year 1979 projects
RTC San Diego, Calif.; RTC Great Lakes, Ill.	RTC Orlando, Fla.	None.
Headquarters Military Sealift Command, Washington, D.C.	None	Do.
Navy Recruit Command, Washington, D.C.	do	Do.
Navy Exhibit Center, Washington, D.C.	do	Do.
Headquarters Navy Audit Service, Washington, D.C.	do	Do.
NSA Long Beach, Calif.	NS San Diego, Calif.	P-143 pier; P-144 pier improvement; P-200 quaywall repairs.
MCRD Parris Island, S.C.	None	None.
MCRD San Diego, Calif.	do	Do.
NAS (NARF) Alameda, Calif.	NSC Oakland, Calif.	P-946 oil spill prevention; P-053 dust removal; P-059 egress improvements.
NAS (NARF) Norfolk, Va.	NSC Norfolk, Va.	P-163 lighting system; P-943 cold storage warehouse; P-993 oil spill prevention.
NAS (NARF) North Island, Calif.	NSC San Diego, Calif.	P-014 general warehouse; P-029 oil spill prevention; P-005 POL pipeline.
NRMC Philadelphia, Pa.; NH Quantico, Va.; NH Annapolis, Md.	NNMC Bethesda, Md.	P-352C NNMC modernization.
NH Whidbey Island, Wash.	NRMC Bremerton, Wash.	None.
NH Port Hueneme, Calif.	NH Long Beach, Calif.	Do.
NH Key West, Fla.	NRMC Jacksonville, Fla.	Do.
NRMC New Orleans, La.	None	Do.
NAS Key West, Fla.	do	Do.
NAS Whiting Field, Fla.; NAS Corpus Christi, Tex.	do	Do.

Installation and project	Cost	Status (percent)
MARINE CORPS—Continued		
Current candidates for realignment:		
NARF Norfolk, Va.: ³ P-292 insulation and storm windows	390	0
NAS Norfolk, Va.:		
P-089 insulation and storm windows	100	25
P-158 heating, ventilation and air-conditioning	700	8
P-269 AUV shops and weapons storage magazine	950	10
P-363 runway extension	10,300	10
P-442 air freight terminal	2,950	0
Bases with similar missions: NSC Norfolk, Va.:		
P-867 POL pipeline	4,990	0
P-163 lighting system	1,200	25
Current candidates for realignment:		
NARF North Island, Calif. ³ (none)		
NAS North Island, Calif.:		
P-366 oily waste collection and reclamation	3,600	66
P-373 industrial waste collection	2,171	80
P-379 steam and condensate system	5,949	13
P-388 oil spill prevention	1,500	0
P-391 steam and condensate system	4,500	0
P-446 classified item	7,251	0
Bases with similar missions: NSC San Diego, Calif. ³ (None)	250	0
Current candidates for realignment: Naval Regional Medical Center, Philadelphia, Pa. (none)		
Bases with similar missions: National Naval Medical Center, Bethesda, Md.:		
National Naval Medical Center modernization	100,000	54
Current candidates for realignment: Naval hospital, Quantico, Va. ⁸ (none)		
Bases with similar missions: National Naval Medical Center, Bethesda, Md.:		
National Naval Medical Center modernization	100,000	54
Current candidates for realignment: Naval hospital, Whidbey Island, Wash. ⁹ (none)		
Bases with similar missions: Naval Regional Medical Center, Bremerton, Wash.:		
P-033 hospital complex	29,959	73
P-004 BEQ	1,450	0
Current candidates for realignment: Naval hospital, Port Huene, Calif. ⁷ (none)		
Bases with similar missions: Naval hospital, Long Beach, Calif. ⁷ (none)		
Current candidates for realignment: Naval hospital, Key West, Fla. ⁹ (none)		
Bases with similar missions:		
Naval Regional Medical Center, Jacksonville, Fla. (none)		
Naval Aerospace Regional Medical Center, Pensacola, Fla. (none)		
Current candidates for realignment: Naval hospital, Annapolis, Md. ⁹ (none)		
Bases with similar missions: National Naval Medical Center, Bethesda, Md. ⁹ (none)		
Current candidate for realignment: Naval Regional Medical Center, New Orleans, La. ¹⁰ (none)		
Bases with similar missions: (none)		
Current candidates for realignment: NAS Keywest, Fla.:		
Dispensary/dental clinic	975	97
Incinerator	1,648	0
Bases with similar missions: (none)		
Current candidates for realignment: Support and Development Office, (CASDO), Portsmouth, N.H. ¹² (none)		
Bases with similar missions: Central Naval Ordnance Management Information Systems Office (CENO), Indian Head, Md. ¹² (none)		
Current candidates for realignment:		
NAS Whiting Field, Fla.:		
P-174 training facility	500	10
P-154 outlying fields including land acquisition	1,400	38
EM dining facility	1,208	0
NAS Corpus Christi, Tex.: ¹³ P-231 boiler replacement	5,430	15
Bases with similar missions: (none)		
NAVAL RESERVE		
Current candidates for realignment:		
Naval Air Facility (NAF) Detroit, Mich.:		
P-031 aircraft maintenance hangar	4,356	20
P-032 intermediate maintenance facility	2,136	20
Naval Air Reserve Detachment (NARDET), Lakehurst, N.J. (none)		
Naval Air Reserve Detachment (NARDET), Miami, Fla. (none)		
Naval Air Reserve Detachment (NARDET), Denver, Colo. (none)		
Naval Air Reserve Detachment (NARDET), Olathe, Kans. (none)		
Naval Air Reserve Detachment (NARDET), New York, N.Y. (none)		
Naval Air Reserve Detachment (NARDET), Niagara Falls, N.Y. (none)		
Naval Air Reserve Detachment (NARDET), Seattle, Wash. (none)		
Activities with Similar Missions		
(a) To NAF Detroit, Mich.:		
Naval Air Station (NAS), Dallas, Tex.:		
P-245 intermediate maintenance facility	2,693	45
P-265 F-4 trainer facility	1,740	100
P-246 aircraft maintenance hangar alterations	1,278	100
P-263 building modernization	116	100

See footnotes at end of table.

Installation and project	Cost	Status (percent)
Naval Air Station (NAS), New Orleans, La.:		
P-290 aircraft rinse facility	210	100
P-249 warehouse mez.	134	85
P-261 oil spill prevention facility	403	80
P-258 aircraft maintenance hangar alterations	1,684	45
P-196 refueling vehicle maintenance facility	197	145
Naval Air Station (NAS), Willow Grove, Pa.:		
P-130 avionics engine shop	1,670	45
P-076 aircraft parking apron	1,754	30
P-151 supply building	428	25
P-119 aircraft noise suppressor	282	100
P-131 aircraft maintenance hangar alterations	996	145
Naval Air Station (NAS), Glenview, Ill.:		
P-982 aircraft control tower	1,585	32
P-298 building modernization	224	5
P-078 P-3 DIFAR trainer	70	100
P-966 oil water separator	79	1195
P-989 secure steam nonheat season	297	145
Naval Air Station (NAS), South Weymouth, Mass.:		
P-035 bachelor enlisted quarters	1,194	5
P-103 aircraft approach lighting	285	145
P-126 intermediate maintenance facility	2,712	140
P-131 aviation training building alterations	520	130
Naval Air Station (NAS), Atlanta, Ga.:		
P-288 load shedding cycling equipment	78	50
P-281 fuel vapor emission control	262	25
P-284 ordnance complex	244	2
P-291 ground support equipment shop expenditures	143	100
P-289 building modernization	115	130
Naval Air Facility (NAF), Washington, D.C.:		
P-001 aircraft power check pad/with sound suppressor	147	100
Bases with Similar Missions		
(b) To NARDET Lakehurst, N.J. (Flying NARDET status):		
Naval Air Detachment (NARDET), Miramar, Calif.: P-149 administrative training building	1,783	25
Naval Air Detachment (NARDET), Moffett Field, Calif.: P-128 training building addition	510	(9)
Naval Air Detachment (NARDET), Patuxent River, Md. (none)		
(c) To other (nonflying) NARDETS:		
Naval Air Detachment (NARDET), Columbus, Ohio (none)		
Naval Air Detachment (NARDET), Twin Cities, Minn. (none)		
Naval Air Detachment, Albuquerque, N. Mex. (none)		
Naval Air Detachment (NARDET), Lemoore, Calif. (none)		

¹ There is collocated with each of the recruit training centers a service school's command which is not the subject for realignment actions. There are projects included in the fiscal year 1979 Milcon program for the service school's command, Orlando.

² The proposed action would reopen NSA Long Beach as an active homeport for surface ships. The action is intended to relieve port congestion at NS San Diego and avoid costly future pier construction at this location. The action will not affect projects for NS San Diego requested in the fiscal year 1979 Milcon program.

³ There are 5 naval supply centers (NSC) and 6 naval air rework facilities (NARF) within the continental United States. The situation wherein a NSC and a NARF are in sufficiently close proximity for consolidation of common supply functions exists at only 3 locations which are all addressed in the Apr. 26, 1978 realignment action.

⁴ If disestablishment of NRMIC Philadelphia occurs, active duty military inpatient care would be provided at NNMC Bethesda. Emergency care would be provided at the nearest hospital. Other beneficiaries would be referred to Veterans' Administration facilities or Champlus.

⁵ Should NH Quantico be discontinued, active duty military inpatient care would be provided principally at NNMC Bethesda with some at Fort Belvoir Army Hospital. Emergency care would be provided at the nearest hospital. Other beneficiaries would receive inpatient care at NNMC Bethesda, Fort Belvoir AH or be referred to Champlus.

⁶ If disestablishment of NH Whidbey occurs, active duty military inpatient care would be provided at NRMIC Bremerton. Other beneficiaries would be referred to Champlus or Madigan Army Hospital. Emergency care would be provided at the nearest hospital.

⁷ If disestablishment of NH Port Huene occurs, active duty military inpatient care would be provided at NH Long Beach or possibly Veterans' Administration facilities. Emergency care would be provided at the nearest hospital. Other beneficiaries would be sent to either NH Long Beach, Veterans' Administration facilities or referred to Champlus.

⁸ If disestablishment of NH Key West occurs, active duty military inpatient care would be provided primarily at NRMIC Jacksonville with some provided at NARMC Pensacola. Emergency care would be provided at the nearest hospital. Other beneficiaries would be returned to Champlus.

⁹ If disestablishment of NH Annapolis occurs, active duty military inpatient care would be provided at NNMC Bethesda. Emergency care would be provided at the nearest hospital. Other beneficiaries would be sent to NNMC Bethesda or referred to Champlus.

¹⁰ If disestablishment of NRMIC New Orleans occurs active duty military inpatient care would be provided at Public Health Service facilities. Emergency care would be provided at the nearest civilian hospital. Other beneficiaries would be referred to Public Health Service facilities (primarily) and Champlus.

¹¹ Mission under review at NAS Keywest is support of A-5 reconnaissance aircraft. All Navy A-5 aircraft have heretofore been based at Keywest. The A-5 mission is the primary role of this base, other Navy operations here being in support of the A-5's. Upon phase out of all A-5's from Navy inventory, to occur by fiscal year 1980, plan is to assist reconnaissance mission to F-14 aircraft to be based at NAS Oceana on NAS Miramar.

¹² These activities are tenant commands with computer related primary functions. CASDO is located at the Portsmouth NSY, N.H. and CENO at NOS Indian Head, Md. Because of their size, functional nature and tenant status these commands have only minimal Milcon requirements.

¹³ Although there are many more NAS's throughout the Navy, NAS Whiting Field and NAS Corpus Christi are the only 2 involved in basic propeller flight training.

¹⁴ Design.

¹⁵ In transition to becoming a Naval Reserve activity.

¹⁶ Design complete.

(A) TRAINING BASE REALIGNMENT CONSIDERATIONS—Continued

Fiscal year	Project	CWE (thousands)	Date
(6) Ft. Knox, Ky.			
Design (award):			
1977	Insulate/improve heating/cooling, phase II.....	1,666	August 1978.
1977	Modify heating plant, phase II.....	1,747	December 1978.
1976	Upgrade sewage system, phase II.....	4,316	December 1979.
Construction (completion):			
1976	Add/alter Ireland Army Hospital.....	34,820	August 1980.
1977	Upgrade sewage system.....	2,938	December 1978.
1976	Sanitary sewer cleaning, phase II.....	186	July 1978.
1977	Industrial waste treatment.....	1,950	November 1979.
1977	Improve heating/cooling phase I.....	1,068	August 1978.
1977	Modify heating plants, phase I.....	893	December 1978.
1977	Dining facility modernization.....	2,047	February 1979.
(7) Ft. McClellan, Ala.			
1974	Design (award): Boiler expansion, phase IV.....	1,300	August 1978.
Construction (completion):			
1976	Addition to Noble Army Hospital.....	9,608	September 1979.
1976	Boiler plant modernization.....	708	November 1978.
1976	EM barracks complex.....	14,443	Do.
1976	Heating controls/insulation.....	387	Do.
1977	Heating control system (ECIP).....	1,880	January 1980.
(8) Ft. Sill, Okla.			
1977	Design (award): Industrial waste treatment.....	782	September 1978.
Construction (completion):			
1976	Barracks complex trainee.....	12,570	March 1979.
1976	Building heating system.....	1,649	January 1979.
(9) Ft. Leonard Wood, Mo.			
Design (award):			
1977	Heating plant improvement.....	2,800	November 1978.
1977	Insulation/storm windows.....	645	July 1978.
Construction (completion):			
1974	EM barracks complex.....	44,840	October 1978.
1975	Electrical/mechanical upgrade hospital.....	4,142	August 1978.
1975	EW barracks.....	1,599	October 1978.
1975	Sewage treatment plant.....	2,001	July 1979.
1975	Water pollution control.....	146	Do.
1976	Range improvements.....	526	December 1978.
1976	Range parking area.....	158	Do.
1976	Sewage treatment improvement.....	9,144	July 1978.
1977	Fuel conversion.....	1,371	October 1978.
1977	Heating system automation/surveillance controls.....	4,236	February 1979.

(B) MEDICAL CENTER REALIGNMENT CONSIDERATIONS

(1) Fitzsimons AMC, Colo.			
1977	Construction (completion): Upgrade sewage plant.....	\$516	August 1978.
(2) Brooke AMC, Tex.			
1978	Design (award): Alter Brooke AMC.....	9,000	Design held.
(3) Dwight David Eisenhower AMC, Ga.—None.			
(4) Walter Reed AMC, D.C.			
1978	Design (award): Fuel oil storage/emergency generator.....	2,089	September 1978.
Construction (completion):			
1972	Hospital.....	140,000	June 1978.
1977	Research support facility.....	660	August 1978.
(5) Tripler AMC, Hawaii.—None.			
(6) Madigan AMC, Wash.—None.			
(7) William Beaumont AMC, Tex.			
1977	Design (award): Hospital electrical/mechanical upgrade.....	3,856	August 1978.
(8) Letterman AMC, Calif.—None.			

(C) OTHER REALIGNMENT CONSIDERATIONS

(1) Aberdeen Proving Ground, Md.			
Design (award):			
1974	EM barracks.....	\$4,652	February 1979. ¹
1974	EM barracks, phase II.....	6,329	March 1979. ¹
1978	Chemical storage security.....	6,738	September 1978.
1978	Energy control system, phase II.....	800	Do.
Construction (completion):			
1974	Relocation of electrical lines for EM barracks.....	18	July 1978.
1976	Research facility.....	6,500	August 1978.
1977	Install storm sashes.....	692	July 1978.
1978	Energy control system, phase I.....	800	October 1979.
(2) Arlington Hall Station, Va.—None.			
(3) Ft. Eustis, Va.			
Construction (completion):			
1976	Dining facility modernization.....	930	October 1978.
1977	Energy control system.....	1,517	February 1979.

See footnotes at end of table.

(C) OTHER REALIGNMENT CONSIDERATIONS—Continued

Fiscal year	Project	CWE (thousands)	Date
1977	Insulation and storm windows.....	783	October 1978.
(4) Ft. Douglas, Utah—None.			
(5) Dugway Proving Ground, Utah—None.			
(6) Ft. Hamilton, N.Y.—None.			
(7) Ft. Indiantown Gap, Pa.—None.			
(8) Letterkenny Army Depot, Pa.			
Construction (completion):			
1977	Vehicle rebuild facility.....	3,226	November 1979.
1977	Insulate permanent buildings, phase I.....	1,062	February 1979.
1977	Insulate permanent buildings, phase IIa.....	952	August 1978.
1977	Insulate permanent buildings, phase IIb.....	923	Do.
(9) Ft. MacArthur, Calif.—None.			
(10) Ft. Monroe, Va.			
1976	Design (award): Water pollution control, phase II.....	649	September 1978.
(11) Corpus Christi Army Depot, Tex.			
Design (award):			
1978	Heat treatment.....	2,693	July 1978.
1978	Industrial waste, phase II.....	836	Do.
Construction (completion):			
1978	Jet fuel test facility.....	927	December 1978.
1978	Flammable storage and POL.....	328	August 1978.
1978	Industrial waste, phase I.....	651	November 1978.
1976	Supply operations and storage building, phase II.....	988	January 1979.
(12) New Cumberland Army Depot, Pa.—None.			
(13) Presidio of San Francisco, Calif.			
1978	Design (award): Heat recovery.....	132	On hold. Not scheduled.
(14) Rock Island Arsenal, Ill.			
1978	Design (award): Replace Moline bridge.....	9,100	August 1978.
(15) Ft. Sheridan, Ill.—None.			
(16) Ft. Wadsworth, N.Y.—None.			
(17) Vint Hill Farm Station, Va.			
1977	Design (award): Sewage treatment plant.....	960	September 1978. ²
(18) Ft. Totten, N.Y.—None.			
(19) Redstone Arsenal, Ala.			
1977	Construction (completion): Sediment and disposal facility.....	1,368	April 1979.

¹ These were DA hold until Fall of 1977—barracks modernization will be awarded subject to availability of funds after award of EM barracks.² On DA hold until June 1978, when it was released for award.

[Cost in thousands of dollars]

Installation and project	Cost	Status (percent)
NAVY		
Current candidates for realignment:		
RTC San Diego, Calif. (none).....		(1)
RTC Great Lakes, Ill. (none).....		(1)
Bases with similar missions: RTC Orlando, Fla. (none).....		(1)
MARINE CORPS		
Current candidates for realignment:		
MCRD Parris Island, S.C.:		
Modern family housing.....	2,418	10
Boiler plant modernization.....	80	15
Sanitation sewer collection system.....	570	2
Dining facility alteration.....	500	0
Recruit barracks.....	2,300	0
Applied instruction building.....	700	0
MCRD San Diego, Calif.: Steam and conduction system.....	1,200	0
Bases with similar missions: (none).		
Current candidates for realignment: Headquarters Military Sealift Command, Washington, D.C. (none).		
Bases with similar missions: (none).		
Current candidates for realignment: Navy Recruit Command, Washington, D.C. (none).		
Bases with similar missions: (none).		
Current candidates for realignment: Navy Exhibit Center, Washington, D.C. (none).		
Bases with similar missions: (none).		
Current candidates for realignment: Headquarters Navy Audit Service, Washington, D.C. (none).		
Bases with similar missions: (none).		
Current candidates for realignment: NSA Long Beach, Calif. (none).....		
Bases with similar missions: NS San Diego, Calif.:		
P-087 berthing improvement.....	400	4
P-142 pier utilities.....	8,165	4
Current candidates for realignment: NAS (NARF) Alameda, Calif.: P-745 energy monitor and control system.....	1,191	0
Bases with similar missions: NSC Oakland, Calif. (none).		

See footnotes at end of table.

quently, it can be determined that the need for the proposed work is not affected by a planned or on-going study and thus is required regardless of the outcome. However, in the case of the Lowry training facility, the Air Force has not completed the detailed analysis of its technical training centers and, therefore, could not clearly make such a determination. Accordingly, the Air Force took the only prudent management decision practicable under the circumstances and withheld execution of the project pending conclusion of the study which should be forthcoming shortly.

With respect to the list of detailed questions which was appended to your letter, we have prepared replies and they are enclosed herewith. If you have any questions, please let us know. We would be pleased to meet with you or your staff on this matter if you desire.

Sincerely,

JOHN P. WHITE,
Assistant Secretary of Defense.

Enclosures.

1. Question. When and why was the decision made to defer the construction of the avionics training facility at Lowry Air Force Base?

Answer. The decision within the Headquarters, United States Air Force, to defer the construction of the avionics training facility at Lowry Air Force Base was made in early June. Within the Department of Defense, it is a long-standing management practice to closely monitor the military construction program to insure that no construction funds are needlessly expended at bases (1) undergoing review for possible closure or major realignment, or (2) those which could be reasonably considered as alternatives to the prime base candidate.

2. Question. Was the Defense Department consulted on this decision?

Answer. The Office of the Secretary of Defense was not consulted specifically on the decision to defer the avionics training facility. However, it was clearly understood that the Air Force would exercise the long-standing DoD management practice with respect to additional capital investments on a base under study for closure, as outlined above.

3. Question. Is this decision part of a Defense Department policy to defer construction at all bases that are either "candidates" for realignment or have missions similar to "candidate" bases?

(a) If no, why not?

(b) If yes, provide a list of all other bases affected by this policy and indicate the specific deferrals that may be affected at such bases.

Answer. It is not Department of Defense policy to unequivocally defer all construction at bases that are either candidates for realignment or have missions similar to candidate bases. The proposed project must be screened with respect to the final configuration or mission of the realigned installation. Projects that are not compatible with possible final realignment action are held in abeyance. Projects that cannot conceivably be affected by the realignment action (to include Health/Safety projects) are allowed to continue though they receive close scrutiny. Construction at similar locations is not deferred unless there is a direct relationship between the proposed realignment and the similar installation. Any adjustments are made in accordance with established procedures.

4. Question. If it is not Defense Department policy to defer construction at "candidate" bases and bases with similar missions, perhaps it should be. Provide a list of all bases that are currently "candidates" for realignment and all bases that have similar missions (e.g., Chanute, Lowry, Keesler, Sheppard, and Lackland; San Diego, Great Lakes, and Orlando, etc.). For each base indicate construction projects that are pending (authorized but not completed, include those only partially completed) indicating the status of each project.

Answer. Tab A, Army; tab B, Navy; and tab C, Air Force.

TAB A—DEPARTMENT OF THE ARMY

1. The following locations are presently being considered by the Department of the Army for possible realignment action.

(a) Training base realignment considerations:

- (1) Ft. Benning, Ga.
- (2) Ft. Bliss, Tex.
- (3) Ft. Dix, N.J.
- (4) Ft. Gordon, Ga.

- (5) Ft. Jackson, S.C.
 - (6) Ft. Knox, Ky.
 - (7) Ft. McClellan, Ala.
 - (8) Ft. Sill, Okla.
 - (9) Ft. Leonard Wood, Mo.
- (b) Medical center realignment considerations:
- (1) Fitzsimons Army Medical Center (AMC), Colo.
 - (2) Brooke AMC, Tex.
 - (3) Dwight David Eisenhower AMC, Ga.
 - (4) Walter Reed AMC, D.C.
 - (5) Tripler AMC, Hawaii.
 - (6) Madigan AMC, Wash.
 - (7) William Beaumont AMC, Tex.
 - (8) Letterman AMC, Calif.
- (c) Other realignment considerations:
- (1) Aberdeen Proving Ground, Md.
 - (2) Arlington Hall Station, Va.
 - (3) Ft. Eustis, Va.
 - (4) Ft. Douglas, Utah.
 - (5) Dugway Proving Ground, Utah.
 - (6) Ft. Hamilton, N.Y.
 - (7) Ft. Indiantown Gap, Pa.
 - (8) Letterkenny Army Depot, Pa.
 - (9) Ft. MacArthur, Calif.
 - (10) Ft. Monroe, Va.
 - (11) Corpus Christi Army Depot, Tex.
 - (12) New Cumberland Army Depot, Pa.
 - (13) Presidio of San Francisco, Calif.
 - (14) Rock Island Arsenal, Ill.
 - (15) Ft. Sheridan, Ill.
 - (16) Ft. Wadsworth, N.Y.
 - (17) Vint Hill Farms Station, Va.
 - (18) Ft. Totten, N.Y.
 - (19) Redstone Arsenal, Ala.

2. The projects which are pending at the proposed realignment locations are as follows:

(A) TRAINING BASE REALIGNMENT CONSIDERATIONS

Fiscal year	Project	CWE (thousands)	Date
	(1) Ft. Benning, Ga.		
Design (award):		\$969	July 1978.
1977	Building improvements.....	1,628	September 1978.
1977	Energy conservation system.....	4,030	Do
1977	Upgrade domestic waste treatment.....	13,934	September 1978 (holding).
1978	EM barracks complex.....	3,279	September 1978.
1978	Dental clinic.....		
	Construction (completion):	5,214	December 1979.
1975	Upgrade hospital.....	18,342	August 1978.
1976	EM barracks complex.....	483	July 1978.
1976	Building improvements—Energy.....	3,689	May 1979.
1977	Lindsay Creek Parkway.....	3,264	December 1978.
1978	BCT training facility.....		
	(2) Ft. Bliss, Tex.	557	September 1978.
Design (award):	Insulate buildings.....		
	Construction (completion):	262	October 1978.
1978	Water storage tanks.....	79	February 1979.
1978	Hot water heaters.....		
	(3) Ft. Dix, N.J.		
Design (award):	Cold storage warehouse.....	1,215	On DA hold.
1973	Barracks modernization.....	5,670	Design completed.
1971	Construction (completion): Improve sewage facility.....	3,005	August 1978.
	(4) Ft. Gordon, Ga.	1,583	March 1979.
1977	Construction (completion): Regional dental activity.....		
	(5) Ft. Jackson, S.C.		
Design (award):	Building weatherproofing.....	357	September 1978.
1976	Water pollution control.....	366	July 1978.
1978	Construction (completion):	10,003	December 1978.
1976	EM barracks complex.....	254	September 1978.
1976	Storm drainage.....		

Nature of action.

The JSS will incorporate radar inputs from Long Range Radars (LRR) operated by the Department of Defense and the FAA. Many existing LRRSs will be transferred to the FAA which will operate and maintain the surveillance radar portion with approximately 20 people. Fewer than 10 USAF personnel will be assigned to these sites to operate the height finder radars as FAA does not have a requirement for height information from these sensors. Some existing Air Force LRRs are incorporated in the system covering areas in which FAA does not need reporting and will continue to be operated and maintained solely by the Air Force. Still other radars will no longer be required.

Reason for the action

The JSS is being implemented for two significant reasons. First, to fully comply with a 1954 Executive order which tasked the Air Force and FAA to combine their separate, dedicated radar coverage. Second, to replace the aging SAGE network with technically up to date hardware which will enable the air sovereignty mission to be performed more efficiently and cost effectively. As the system is implemented, the E-3A AWACS will be employed to augment its capability in times of increased international tension.

Impact of the action

There are over 40 sites affected in FY 79 and 80 by the implementation of the JSS. Each of these sites is relatively small, with less than 200 personnel. A break-out of the personnel affected, in the aggregate, does not adequately portray the comparatively minor personnel effects at each of the sites. In total, approximately 3200 military and 700 civilian manpower authorizations will be avoided between Fiscal Year 79 (beginning October 1, 1978) and disposal of the real property at the sites estimated for Fiscal Year 83. There may be some personnel turbulence, but the effect at each site will be comparatively minor. The manpower resources made available by these actions will be used to improve our worldwide combat readiness.

The total one-time cost for implementation of the Joint Surveillance System is \$31.7 million with a total estimated annual cost avoidance of \$56.8 million.

The majority of the assessments for the individual sites are complete; the remainder are being finalized and should be complete in the fall of 1978. A listing of the locations to be affected during 1979 and 1980 is attached.

The following Air Force sites are programmed to be impacted by implementation of the JSS. The manpower impact is approximate and expressed as military personnel (MIL), civilian (CIV), and total (TOT):

Location	Action effective by—	USAF personnel—					
		Reduced			Remaining		
		Military	Civilian	Total	Military	Civilian	Total
Dauphine Island AFS, Dauphin Island, Ala. (site to be inactivated)	Summer 1980	7		7			
Almaden AFS, Twin Creek, Calif. (site to be inactivated)	Summer 1980	100	20	120			
Cambria AFS, Cambria, Calif. (site to be inactivated)	Summer 1980	90	25	115			
Mill Valley AFS, Mill Valley, Calif. (Air Force radar transferred to FAA)	Spring 1980	143	30	173	7		7
Mount Laguna AFS, Mount Laguna, Calif. (Air Force radar transferred to FAA)	Fall 1980	133	30	163	7		7
Klamath AFS, Requa, Calif. (Air Force radar transferred to FAA)	Winter 1979	93	25	118	7		7
San Pedro Hill AFS, Los Angeles, Calif. (Air Force radar transferred to FAA)	Fall 1980	18	5	23	7		7
Jacksonville AFS, Orange Park, Fla. (site to be inactivated)	Summer 1980	60	10	70			
Key West NAS, Key West, Fla. (Air Force radar transferred to FAA; USAF action impact)	Winter 1979	33	1	34	7		7
MacDill AFB Tampa, Fla. (Air Force radar transferred to FAA at FAA site)	Summer 1980	55	5	60	5,045	855	5,900
Patrick AFB, Cocoa Beach, Fla. (Air Force radar transferred to FAA)	Winter 1979	25		25	3,175	950	4,125
Richmond AFS, Perrine, Fla. (Air Force contract radar transferred to FAA)	Summer 1980	22	1	23	7		7
Randall AFB, Panama City, Fla. (Air Force radar transferred to FAA)	Winter 1979	20		20	3,180	950	4,130
Savannah AFS, Savannah, Ga. (site to be inactivated)	Summer 1980	70	10	80			

Location	Action effective by—	USAF personnel—					
		Reduced			Remaining		
		Military	Civilian	Total	Military	Civilian	Total
Finland AFS, Finland, Minn. (Air Force radar transferred to FAA at Nashwauk)	Spring 1980	93	25	118	7		7
Havre AFS, Havre, Mont. (site to be inactivated)	Fall 1979	95	25	120			
Kalspell AFS, Lakeside, Mont. (Air Force radar transferred to FAA)	Winter 1979	23		23	7		7
Malmstrom AFB, Great Falls, Mont. (Air Force radar transferred to FAA)	Winter 1979	20		20	4,630	620	5,250
Opheim AFS, Opheim, Mont. (site to be inactivated)	Fall 1979	90	25	115			
Lockport AFS, Lockport, N.Y. (site to be inactivated)	Summer 1979	95	25	120			
Montauk AFS, Montauk, N.Y. (site to be inactivated)	Spring 1980	110	30	140			
Watertown AFS, Watertown, N.Y. (site to be inactivated)	Fall 1979	97	22	119			
Bucks Harbor AFS, Bucks Harbor, Maine (Air Force radar transferred to FAA)	Spring 1979	53	10	63	7		7
Caswell AFS, Caswell, Maine (site to be inactivated)	Fall 1980	80	20	100			
Charleston AFS, Charleston, Maine (site to be inactivated)	Summer 1979	160	20	180			
Fort George Meade, Laurel, Md. (radar site to be inactivated)	Summer 1980	50	3	53			
Catumet AFS, Central, Mich. (site to be inactivated)	Winter 1979	105	25	130			
Empire AFS, Empire, Mich. (Air Force radar transferred to FAA)	Spring 1980	28	10	38	7		7
Sault Ste Marie AFS, Sault Ste Marie, Mich. (site to be inactivated)	Winter 1979	100	20	120			
Baudette AFS, Baudette, Minn. (site to be inactivated)	Winter 1979	100	30	130	7		7
Roanoke Rapids AFS, Roanoke Rapids, N.C. (site to be inactivated)	Fall 1978	85	15	100			
Finley AFS, Finley, N. Dak. (Air Force radar transferred to FAA at another location; site to be inactivated)	Fall 1979	83	30	113	7		7
Fortuna AFS, Fortuna, N. Dak. (radar to be inactivated)	Fall 1979	110	25	135			
Minot AFS, Minot, N. Dak. (site to be inactivated)	Fall 1979	90	20	110			
Keno AFS, Keno, Ore. (Air Force radar transferred to FAA)	Spring 1979	See announcement for Kingsley Field.					
Mount Hebo AFS, Hebo, Ore. (site to be inactivated)	Spring 1979	160	30	190			
North Bend AFS, North Bend, Ore. (site to be inactivated)	Winter 1979	90	30	120			
North Charleston AFS, North Charleston, S.C. (site to be inactivated)	Summer 1980	100	15	115			
Cape Charles AFS, Kiptopeke, Va. (site to be inactivated)	Summer 1980	80	25	105			
Blaine AFS, Blaine, Wash. (site to be inactivated)	Spring 1979	100	25	125			
Mica Peak AFS, Mica, Wash. (Air Force radar transferred to FAA)	Summer 1979	35	10	45			
Saint Albans AFS, Saint Albans, Vt. (site to be inactivated)	Summer 1979	90	20	110			

LOS ANGELES AFS, LOS ANGELES, CALIF.

Information sheet

The Department of the Air Force desires to improve the management of resources devoted to the national space effort. Currently, the Air Force Systems Command (AFSC) through the Space and Missile Systems Organization (SAMSO) at the Los Angeles AFS, California, conducts the majority of the Air Force research and development effort associated with space systems. Air Force and contractor employees from Aerospace, Inc., work together in conducting research and managing procurement and production. This study may result in a reorganization of SAMSO, relocation of activities and the closure of Los Angeles AFS. The study will consider the relocation of essential activities to Vandenberg, Norton, and Edwards AFB's, California. The actual numbers of personnel to be relocated to each location will be determined as a part of the study.

Los Angeles AFS is a small single-mission installation with limited expansion capability. The base has been subjected to urban encroachment for some time

EXPLANATORY NOTES—College or vo-tech students: (C) College students or postsecondary vo-tech students; (S) Secondary high school vo-tech students; (T) Manpower development and other trainees. Land use: A, Aviation; Ag, Agriculture; C, Commercial; E, Education; F, Other Federal use; H, Health; Hi, Historic preservation; Ho, Housing; I, Industrial; M, Municipal; P, Park and recreation; R, Reserve or National Guard; S, State.

Community and facility	Year of impact	Year of acquisition	Civilian jobs lost	Military transfers	New civilian jobs			Major firms/activities	College vo-tech students	Land use	Community contact
					Total jobs on base	New jobs on base	Direct off-base jobs ¹				
Greenville, S.C.: Donaldson Air Force Base.	1963	1964	672	4,100	3,500	3,500	3,000	E-Systems Inc.; Woolworth Distribution Center; Union Carbide; 3-M Co.; Norwich Pharmaceutical; Michelin; Donaldson Area Vocational Education Center; General Aviation.	606(C)	A,C,E,I,P	Charles L. Sanders, general manager, Donaldson Center Greenville, S.C. 29605.
Edgemont, S. Dak.: Black Hills Army Depot.	1967	1968	512	12	80	80	42	FHT Feeders; Cheyenne Feeders; Kustom Kraft Corp. ²		Ag, Ho, I	Ruben Wailes, manager, Black Hills Industrial Freeport, Edgemont, S. Dak. 57735.
Smyrna, Tenn.: Sewart Air Force Base.	1969	1971	470	4,050	1,940	1,910		International Drug; Better Built Aluminum; Hy-Tec Corp.; Capital International Airways; Ferro Corp.; Carrier Corp.; Comprehensive Rehabilitation Center; municipal airport.	400(C)	A,E,H,Ho,I, R,S.	Sam Ridley, mayor, town of Smyrna, Smyrna, Tenn. 37167.
Amarillo, Tex.: Amarillo Air Force Base.	1968	1969	1,571	5,600	2,265	2,192		Bell Helicopter; Levi Strauss; Tascos Engineering; Texas State Technical Institute; municipal airport.	2,000(C)	A,E,Ho,I,P, R.	John Stiff, city manager, city of Amarillo, Amarillo, Tex. 79101.
Harlingen, Tex.: Harlingen Air Force Base.	1962	1963-64	720	3,100	1,400	1,400		Levi Strauss; Tex-Steel; Cooper Air Motive; Marine Military Academy; Texas State Technical Institute.	900(C)	A,C,E,Ho,I, M.	David Alex, manager, Chamber of Commerce, Harlingen, Tex. 78550.
Laredo, Tex.: Laredo Air Force Base.	1973	1975	700	1,998	1,305	610		Julian Noa Inc.; Tracor-Radcon; International Diversified; municipal airport.		A,E,H,Ho,I, M,S.	Gail R. Peck, director of airports, Laredo International Airport, Laredo, Tex. 78041.
Mineral Wells, Tex.: Fort Wolters.	1974	1975-77	1,219	692	1,008	1,008	387	Optron, Inc.; Kay Industries; Ford Manufacturing; Northridge Oil; Illinois Tool; J-Mack; Bartec; Weatherford College; general aviation airport.	300(C)	A,E,H,Ho,I, M,P,R,S.	Ellis White, mayor, city of Mineral Wells, P.O. Box 339, Mineral Wells, Tex. 76067.
San Marcos, Tex.: Camp Gary.	1963	1965	30	1	250	250		Texas Educational Foundation; Job Corps School; municipal airport.	2,000(T)	A,E	Jim Bough, city manager, city of San Marcos, San Marcos, Tex. 78666.
Sherman-Denison, Tex.: Perrin Air Force Base.	1971	1972	600	1,930	617	617		Texas Instrument; Hitchcock, Ind.; Grayson County College; municipal airport.	1,000(C)	A,E,H,Ho,I	Jerry Chapman, executive director, Texoma Regional Planning Commission, 1000 Arnold Boulevard, Denison, Tex. 75020.
Sweetwater, Tex.: Sweetwater Air Force Station.	1971	1971	25	100	73	73		Texas State Institute.	240(C)	E	Bill Pevetouse, general manager, Rolling Plains Campus, Texas State Technical Institute, Sweetwater, Tex. 79556.
Waco, Tex.: James Connally Air Force Base.	1966	1966	833	2,980	657	657		James Connally Technical Institute; municipal airport.	2,900(C)	A,E	Ted Talbott, vice president, James Connally Technical Institute, Waco, Tex. 76703.
Saltville, Va.: Air Force Hydrazine Plant 80 and Olin Chemical Complex.	1971-73	1971-76	880		153	153		Pyott-Boone Corp.; Greer Steel; Carbonic Industries.		I	Leo Branham, chairman, Saltville Industrial Development Authority, Saltville, Va. 24370.
Kitsap County, Wash.: Nike Site 92.	1974	1976		131	5			North Kitsap Vo-Tech and school uses.	40(S)	E	Robert Minnitti, superintendent, North Kitsap School District, Poulsbo, Wash. 98370.
Moses Lake, Wash.: Larson Air Force Base.	1966	1966	388	3,440	886	886		Continental Can; Japan Airlines; King Mushroom; Saga Foods; Port of Moses Lake; Big Bend Community College; Columbia Basin Job Corps; municipal airport.	1,000(C); 200(T)	Ag, A, C, E, Ho, I, M, P	Clyde W. Owen, executive manager, Grant County Airport, Moses Lake, Wash. 98837.
Madison, Wis.: Truax field.	1968	1968	378	1,265	810	710		Wisconsin Research Foundation; Dairy Equipment Co.; State Department of Transportation; municipal airport.		A, C, I, M	Peter Drahn, deputy director, Dane County Airport Authority, Madison Wis. 53701.
Total civilians and military			68,800	85,402	78,765	69,542	10,540		52,512(C); 4,215(S); 6,308(T)		

¹ Jobs directly related to the reuse of the base property or to key community/EAC actions (including grants). Does not include secondary employment impact.
² Property declared excess (March 1965) to assist in offsetting Brookley AFB impact.
³ Off-base firms.
⁴ Reuse awaiting final approval of Outer Continental Shelf oil leases for the Gulf of Alaska (scheduled for November 1977). The site will be leased with a planned employment level of 200-400 persons.
⁵ Reuse program for facilities was an element in larger area economic adjustment program.
⁶ Economic adjustment program involved long-term outlease of shipyard by the Navy for civilian re-use.
⁷ Significant job loss since 1974 (500 jobs).
⁸ Lake Charles released airport and acquired the property outright in 1976. Sowell (Southwestern Louisiana Tech) is now undertaking a \$4,500,000 expansion program which will increase enrollment on-base to 1,000 full-time and 1,600 part-time students.
⁹ The realignment at Westover AFB resulted in the loss of 4,400 military and a net gain of 150 civilians with the Air Force Reserve, which retained the airfield. The community has acquired approximately 3/4 the excess base property (February 1977). A new \$140,000,000 generating station is under construction; a new regional Vo-Tech school (800 students) will open in 1977-78; and the Westover Metropolitan Development Corp. is attracting new prospects to the remaining base properties which are awaiting sale to the community corporation.
¹⁰ Watertown did not accept an offer for a national firm headquarters. After purchase by the town, the arsenal facilities have been salvaged in part and have remained unused.

¹¹ Does not include temporary construction jobs.
¹² J. C. Penney Western Regional Distribution Center is now under construction. The center will employ upward of 1,500 persons.
¹³ The New York Metropolitan Transportation Authority (MTA) acquired Stewart and 9,000 adjacent acres for a fourth international jetport serving New York City. MTA was blocked in its efforts by a major environmental controversy.
¹⁴ The former Army Pictorial Center was transferred to LaGuardia Community College for a new branch campus. The facility was returned to the Federal Government for disposal in 1976 due to the New York City financial situation. New York City is now endeavoring to acquire the facility under a historic preservation conveyance for further motion picture and TV production use under the auspices of the Astoria Motion Picture and TV Foundation.
¹⁵ Portions of property still awaiting sale/conveyance to the community.
¹⁶ Closure of private-sector chemical complex (Olin Corp.) with small (7 acres) Air Force plant resulted in DEA/EAC involvement. Job losses were not direct DOD jobs but are still reflected in job loss totals.
¹⁷ Property made available to assist in meeting school build-up from new Trident submarine support site.
¹⁸ Does not include 360 part-time jobs.

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COMPLETED MILITARY BASE ECONOMIC ADJUSTMENT PROJECTS, 1961-77—Continued

[EXPLANATORY NOTES—College or vo-tech students: (C) College students or postsecondary vo-tech students; (S) Secondary high school vo-tech students; (T) Manpower development and other trainees. Land use: A, Aviation; Ag, Agriculture; C, Commercial; E, Education; F, Other Federal use; H, Health; HI, Historic preservation; Ho, Housing; I, Industrial; M, Municipal; P, Park and recreation; R, Reserve or National Guard; S, State.]

Community and facility	Year of impact	Year of acquisition	Civilian jobs lost	Military transfers	New civilian jobs			Major firms/activities	College vo-tech students	Land use	Community contact
					Total jobs on base	New jobs on base	Direct off-base jobs				
Manchester, N.H.: Grenier Air Force Base.	1966	1966-75	138	320	3,300	2,000	Sanders Associates; Disogrin Industries; Scovill Aerosol; Edison Electric; Moore Business Forms; Municipal airport.	A, I, R	E	Mike Goodwin, airport manager, Manchester Airport Authority, Manchester, N.H. 03103.	
Lumberton, N.J.: Nike Site 25	1974	1976	94		45	10	Lumberton Township Municipal offices.	E, M		Ronald J. Joyce, Mayor, Lumberton Township, 22 Estate Road, Mount Holly, N.J. 08060.	
Metuchen, N.J.: Raritan Arsenal	1964	1964-65	2,610	8	4,450	4,450	RCA; American Hospital Supply; R. H. Macy; Schwinn Bicycles; GSA Depot; Continental Can; Middlesex Community College; Livingston College Campus of Rutgers University; American Can; Spaulding, Mattell Toys; Job Corps.	6,000(C); C, E, F, I, P		Howard Pointer, president, Summit Associates, Raritan Center, Metuchen, N.J. 08840.	
New Brunswick, N.J.: Camp Kilmer.	1963	1965	578	426	1,626	1,626	Livingston College Campus of Rutgers University; American Can; Spaulding, Mattell Toys; Job Corps.	3,756(C); E, I, P		William Wright, Jr., Director of physical and capital planning, Rutgers University, New Brunswick, N.J. 08903; Rod Starkey, executive vice president, Roswell Chamber of Development and Commerce, P.O. Box 70, Roswell, N. Mex. 88201.	
Roswell, N. Mex.: Walker Air Force Base.	1967	1967	379	4,900	1,110	1,110	665 Greyhound; Levi Strauss; Longhorn Manufacturing; Kennedy Engineering; Glover Packing; Eastern New Mexico University; Municipal airport.	1,950(C); A, E, H, Ho		Malcolm Sargent, chairman, Stewart Redevelopment Task Force, c/o Central Hudson Gas & Electric Corp., 255 Broadway, Newburg, N.Y. 12550.	
Newburgh, N.Y.: Stewart Air Force Base.	1969	1971	1,011	2,700	150	150	New York Metropolitan Transportation Authority; General aviation airport.	A		Glenn Ralston, senior planner, New York Department of City Planning, 2927 41st Avenue, Long Island City, N.Y. 11101.	
New York City, N.Y.: Army Pictorial Center.	1970	1972	388	64						George Persons, director, Veterans' Administration Hospital, 800 Polly Place, Queens, N.Y. 11209.	
New York City, N.Y.: St. Albans Naval Hospital.	1974	1974	386	517	646	646	Veterans' Administration Hospital.	H, P			
Schenectady and Voorhesville, N.Y.: Army and General Depot.	1966	1967	1,484	35	1,800	1,800	Mowawk Tires; General Electric; J. C. Kline Inc.; Rayco; Distribution Unlimited; Agway Feeds; Chrysler Car Distribution.	600(S); E, VE		Francisco Galezi, chairman of the board, Northeastern Industrial Park Inc., P.O. Box 99, Gunderland Center, N.Y. 12085.	
Bellefontaine, Ohio: Bellefontaine Air Force Station.	1969	1970	27	136	100	100	Ohio Hi-Point Joint Vocational School.	600(S); E, VE		John C. Richard, superintendent, Ohio Hi-Point Joint Vocational School, RFD-2, Bellefontaine, Ohio 43311.	
Port Clinton, Ohio: Erie Army Depot.	1966	1967	1,885	35	800	800	Uni-Royal Industrial Park.	I		Howard Ostling, manager, Erie Industrial Park, Port Clinton, Ohio 43452.	
Toledo, Ohio: Rossford Arsenal	1963	1965	1,654	52	4,000	3,640	3,000 Hunt Foods; Aca. Hardware; IAM Corporation; National Canvas; Chrysler Motors; Michael J. Owens Junior College; Penta County Vocational School.	4,120(C); E, I, P		James Fangman, assistant to the president, Willis Day Industrial Park, P.O. Box 676, Toledo, Ohio.	
Wilmington, Ohio: Clinton County Air Force Base.	1971	1973	613	66	720	660	170 Ferno Washington, Inc.; Overseas National Airways; International Paper; Laurel Oaks Vocational School; general aviation airport.	500(C); 840(S); A, E, I, R		Thomas Hunter, editor, Wilmington News-Journal, Wilmington, Ohio 45117.	
Burns Flat, Okla.: Clinton-Sherman Air Force Base.	1969-70	1970	391	1,700	480	480	Elco Metal Products; Southwestern Rail Products; Fontaine Trucking; Western Oklahoma Vocational-Technical Center; municipal airport.	1,000(C); A, E, Ho, I, P		Alvin Hamm, executive director, Midwest Oklahoma Development Authority, Burns Flat, Okla. 73624.	
Corvallis, Oreg.: Adair Air Force Station.	1969	1973	180	864	74	74	Oregon-Southwest Washington Laborers Training Trust; Chicano Indian Study Center.	1,630(T); E, H, Ho		Ronald L. Anderson, director of training services, Oregon-Southwest Washington Laborers Training Trust, 1008 N.E. Multnomah Street, Portland, Oreg. 97232.	
Harrisburg, Pa.: Olmsted AFB and Middletown Air Material Area.	1965-68	1968	10,050	1,250	3,010	2,600	Fruehauf; Todco Door Co.; Steelco; United Piece Dye; Pennsylvania State-Capitol Campus; municipal airport.	2,500(C); A, E, Ho, I, P, RS		Matthew M. Douglas, executive vice president, Harrisburg Area Chamber of Commerce, 114 Walnut Street, Harrisburg, Pa. 17101.	
Lancaster, Pa.: Marietta Air Force Station.	1967	1968	750		2,000	2,000	Armstrong Cork Co.	I		Gerald Malloy, executive director, Lancaster County Development Corp., 30 West Orange, Lancaster, Pa. 17603.	
Phoenixville, Pa.: Valley Forge Army Hospital.	1973-74	1976	845	546	40	1,782	Northeast Bible College; local school and park activities.	500(C); E, P		Daniel Baer, president, Valley Forge Use Study Committee, P.O. Box 29, Phoenixville, Pa. 19460.	
York, Pa.: York Naval Ordnance Plant.	1964	1964	1,092	13	1,359	1,359	AMF, Inc.	I		John J. Bell, executive director, York County Development Corp., Chamber of Commerce Building, East Market Street, York, Pa. 17401.	

See footnotes at end of table.

70

71

UNITED STATES

ALASKA



11 AM

PACIFIC



PM

MOUNTAIN



PM

CENTRAL

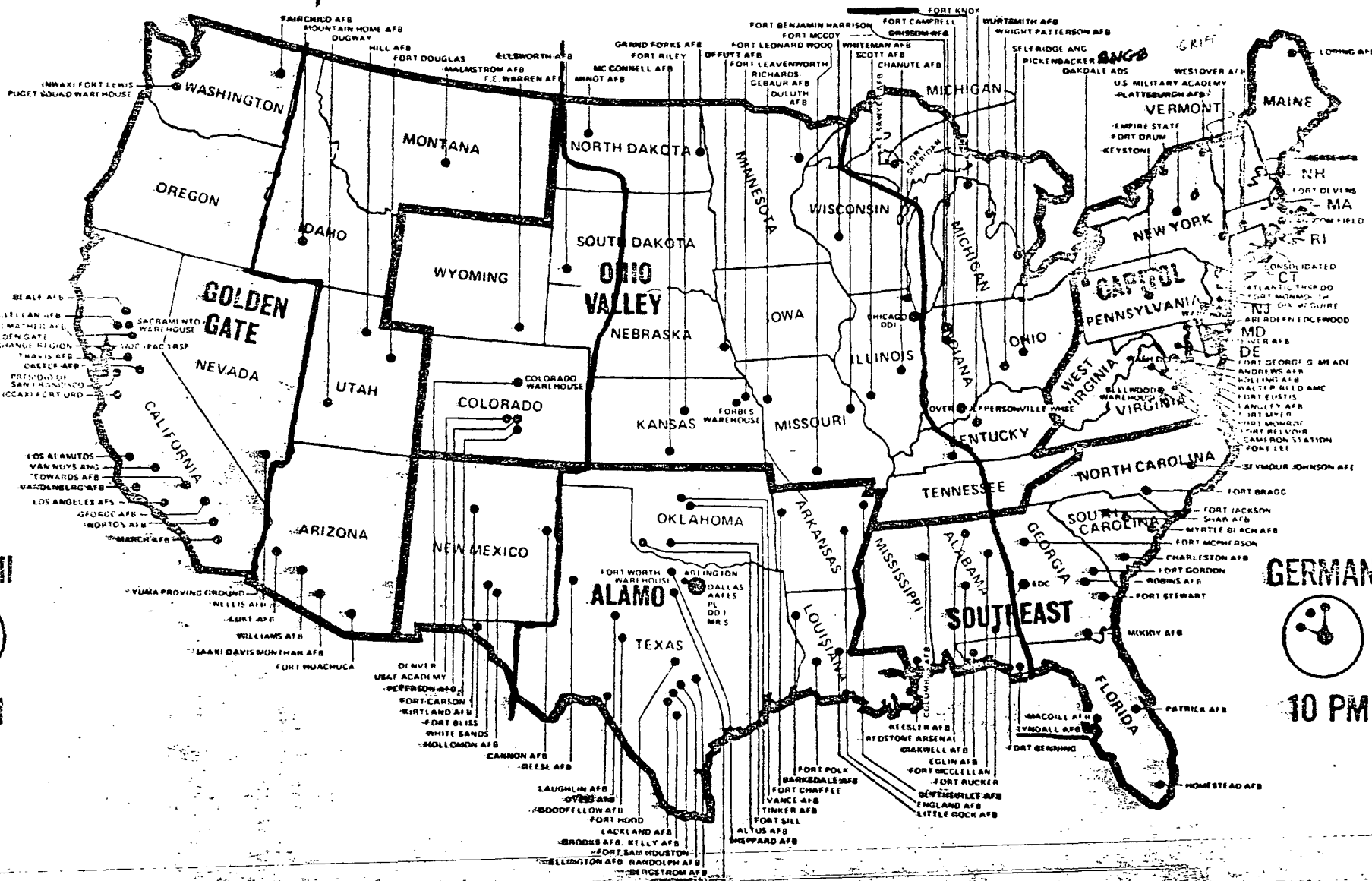


PM

EASTERN



PM



HAWAII



11 AM

GERMAN



10 PM