

# Programmatic Environmental Assessment for Army 2020 Force Structure Realignment

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## 1 5 Acronyms

Acronym	Definition
AAFES	Army Air Force Exchange Service
ABCT	Armored Brigade Combat Team
ACP	Access Control Points
ACS	Army Community Services
ACUB	Army Compatible Use Buffers
ADNL	A-weighted DNL
AGL	above ground level
AICUZ	Air Installation Compatibility Use Zones
AIRFA	American Indian Religious Freedom Act
AIT	Advanced Individual Training
AMF	Army Modular Force
AQCR	Air Quality Control Region
AR	Army Regulation
ARAC	Army Radar Approach Control
ARC	Army Reconnaissance Course
ARPA	Archaeological Resources Protection Act
ASIP	Army Stationing and Installation Plan
ASP	Ammunition Supply Point
AST	aboveground storage tank
AWWU	Anchorage Water and Wastewater Utility
BCT	Brigade Combat Team
BEB	Brigade Engineer Battalion
BfSB	Battlefield Surveillance Brigade
BLM	Bureau of Land Management
BMP	Best Management Practice
BRAC	Base Realignment and Closure
CAA	Clean Air Act
CAB	Combat Aviation Brigade
CACTF	Combined Arms Collective Training Facility
CALFEX	Combined Arms Live-Fire Exercise
CAPs	Criteria Air Pollutants
CCD	Census County Divisions
CDC	Child Development Center
CDNL	C-weighted DNL
CDPHE	Colorado Department of Public Health and Environment
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFA	controlled firing areas
CFR	Code of Federal Regulations
CH <sub>4</sub>	methane
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
CRM	Cultural Resources Manager

CRMP	Cultural Resources Management Program
CSA	Chief of Staff of the Army
CWA	Clean Water Act
CWW	Columbus Water Works
DA	Department of the Army
DANC	Development Authority of the North Country
dB	decibels
dBA	A-weighted decibel
dBc	C-weighted frequency
DEIS	Draft Environmental Impact Statement
DFMWR	Directorate of Family Morale Welfare and Recreation
DMDC	Defense Manpower Data Center
DMR	Dillingham Military Reservation
DNL	day-night average level
DoD	Department of Defense
DPW	Directorate of Public Works
DRMO	Defense Reutilization and Marketing Office
DSG	Defense Strategic Guidance
DTA	Donnelly Training Area
EIFS	Economic Impact Forecast System
EIS	Environmental Impact Statement
EMU	ecological management units
E.O.	Executive Order
EOD	explosives ordnance disposal
EPA	Environmental Protection Agency
EPACT	Energy Policy Act of 2005
EPEC	El Paso Electric Company
EPGC	El Paso Gas Company
EPWU	City of El Paso Water Utility
ERF	Eagle River Flat
ERP	Environmental Restoration Program
ESA	Endangered Species Act
ESMP	Endangered Species Management Plan
FAA	Federal Aviation Administration
FDU	Force Design Update
FNSI	Finding of No Significant Impact
FMWA	Family Morale Welfare and Recreation
FORSCOM	Forces Command
FRA	Fort Richardson
FRP	Facility Reduction Program
FWA	Fort Wainwright
FY	Fiscal Year
GDPR	Global Defense Posture Realignment
GHG	greenhouse gas
GHMTA	Good Hope Maneuver Training Area
GIS	geographic information system
gpd	gallons per day
gpm	gallons per minute

GRTA	Gerstle River Training Area
H <sub>2</sub> S	hydrogen sulfide
HAP	Hazardous Air Pollutant
HET	Heavy Equipment Transports
HMA	Housing Market Analysis
HMMP	Hazardous Material Management Program
HMMWV	High Mobility Multi-Purpose Wheeled Vehicle
HWMP	Hazardous Waste Management Program/Plan
I-	Interstate
IBCT	Infantry Brigade Combat Team
ICRMP	Integrated Cultural Resources Management Plan
ICUZ	Installation Compatible Use Zone
INRMP	Integrated Natural Resources Management Plan
IONMP	Installation Operational Noise Management Program
ISR	intelligences, surveillance, and reconnaissance
ITAM	Integrated Training Area Management
IUA	Intensive Use Area
IWTF	Industrial Waste Treatment Facility
JBER	Joint Base Elmendorf-Richardson
JBLE	Joint Base Langley-Eustis
JBLM	Joint Base Lewis-McChord
JLUS	Joint Land Use Study
JRTC	Joint Readiness Training Center
KLOA	Kawailoa Training Area
KMA	Keamuku parcel
KTA	Kahuku Training Area
kV	kilovolt
kWh	kilowatt-hour
LBP	lead-based paint
L <sub>dn</sub>	day-night average sound level
LFX	live-fire exercises
LOS	Level of Service
LRAM	Land Rehabilitation and Maintenance
LUA	Limited Use Area
LUPZ	Land Use Planning Zone
MBTA	Migratory Bird Treaty Act
MCoE	Maneuver Center of Excellence
µg/m <sup>3</sup>	micrograms per cubic meter
µPa	micro-Pascal
MEB	Maneuver Enhancement Brigade
METL	Mission Essential Task List
mgd	million gallons per day
MGS	Mobile Gun System
MILCON	Military Construction
MIM	Maneuver Impact Mile
MLRS	Multiple Launch Rocket Systems
mm	millimeter
MMBTU	million British Thermal Units

MMPA	Marine Mammal Protection Act
MMR	Makua Military Reservation
MOAs	Military Operations Areas
mph	miles per hour
MPRC	Multi-purpose Range Complex
MS4	Municipal Separate Storm Sewer System
MSA	Metropolitan Statistical Area
MSDS	Material Safety Data Sheet
MSL	mean sea level
MW	megawatt
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Reparation Act
NASA	National Aeronautics and Space Administration
NEPA	National Environmental Policy Act
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NHL	National Historic Landmark
NMFS	National Marine Fisheries Service
NMS	National Military Strategy
NNSR	Nonattainment New Source Review
NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NSR	New Source Review
NSS	National Security Strategy
NTC	National Training Center
NWI	National Wetlands Inventory
NZ	Noise Zone
O <sub>3</sub>	ozone
OSHA	Occupational Safety and Health Administration
OU	Operable Units
PAL	Privatization of Army Lodging
PCBs	polychlorinated biphenyls
PCEs	primary constituent element
pCi/L	Picocuries per liter
PCMS	Piñon Canyon Maneuver Site
PCS	permanent change of station
PEA	Programmatic Environmental Assessment
PEAFLW	Programmatic Environmental Assessment of the Ongoing Mission – U.S. Army Maneuver Support Center and Fort Leonard Wood
PEIS	Programmatic Environmental Impact Statement
PHC	Public Health Command
PK15(met)	peak sound pressure level
PM	particulate matter
PM2.5	particulate matter whose diameter is less than or equal to 2.5 micrometers
PM10	particulate matter whose diameter is less than or equal to 10 micrometers
PN	Project Number
POLs	petroleum, oils, and lubricants

POV	privately owned vehicle
ppb	parts per billion
ppm	parts per million
PRG	Preliminary Remediation Goals
PSD	Prevention of Significant Deterioration
PTA	Pohakuloa Training Area
QDR	Quadrennial Defense Review
R	Restricted Area
RCI	Residential Community Initiative
RCRA	Resource Conservation and Recovery Act
RCW	red-cockered woodpecker
RECONS	Regional Economic System
ROD	Record of Decision
ROI	region of influence
ROW	right-of-way
RTLA	Range and Training Land Assessment Program
RTV	Rational Threshold Value
RYFO	Resumption of Year-Round Firing Opportunities
SAC	Small Arms Complex
SBCT	Stryker Brigade Combat Team
SBER	Schofield Barracks East Range
SBMP	Schofield Barracks Main Post
SBMR	Schofield Barracks Military Reservation
SDWA	Safe Drinking Water Act
SFG	Special Forces Group
SHPO	State Historic Preservation Officer
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SLUA	Special Limited Use Area
SMA	Special Management Area
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
SOPs	Standard Operating Procedures
SPCC	Spill Prevention, Control, and Countermeasures
SUSBDE	Sustainment Brigade
SUA	Special Use Airspace
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TAA	Total Army Analysis
TAMC	Tripler Army Medical Center
TC	Training Circular
TCP	Traditional Cultural Property
TCFE	Transportation Center Fort Eustis
TDY	temporary duty
TFTA	Tanana Flats Training Area
TLEP	Training Land Expansion Program
TMDL	total maximum daily load
TPDES	Texas Pollutant Discharge Elimination

tpy	tons per year
TRADOC	Training and Doctrine Command
TSCA	Toxic Substances Control Act
TVA	Tennessee Valley Authority
U.S.	United States
UAS	Unmanned Aerial System
UIC	underground injection control
USACE	U.S. Army Corps of Engineers
USAG	U.S. Army Garrison
USAG FWA	U.S. Army Garrison Fort Wainwright
USAG-HI	U.S. Army Garrison Hawai'i
USARAK	U.S. Army Alaska
USC	United States Code
USDA	U.S. Department of Agriculture
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
UST	underground storage tank
UXO	unexploded ordnance
VDOT	Virginia Department of Transportation
VEC	Valued Environmental Component
VOC	volatile organic compound
WMD	weapons of mass destruction
WWTP	wastewater treatment plant
YTA	Yukon Training Area

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# **Appendix A**

## Socioeconomics Summary Charts

**Economic Index Forecast System (EIFS) Summary Table: Army 2020 Force Structure Realignment**

Installation Name	Projected Economic Impact and RTV- Alternative 2					Projected Economic Impact and RTV- Alternative 1				
	Military Population Gain	Sales	Income	Employment	Population	Military Population Loss	Sales	Income	Employment	Population
Fort Benning	no gain	no gain	no gain	no gain	no gain	-7,074	-3.16 (10.55 to -7.34)	-4.99 (10.01 to -6.01)	-5.94 (5.03 to -8.29)	-5.74 (2.58 to -1.56)
Fort Bliss	3,000	0.88 (7.98 to -7.15)	0.82 (8.07 to -6.54)	1.34 (3.9 to -4.29)	0.70 (1.21 to -1.66)	-8,000	-2.34 (7.98 to -7.15)	-2.18 (8.07 to -6.54)	-3.59 (3.9 to -4.29)	-1.87 (1.21 to -1.66)
Fort Bragg	no gain	no gain	no gain	no gain	no gain	-8,000	-4.09 (12.36 to -6.8)	-3.13 (9.14 to -5.96)	-5.34 (6.62 to -7.5)	-3.53 (2.36 to -0.7)
Fort Campbell	3,000	2.78 (13.63 to -8.6)	2.34 (12.75 to -6.99)	3.87 (11.51 to -5.25)	2.70 (7.59 to -1.62)	-8,000	-7.42 (13.63 to -8.6)	-6.24 (12.75 to -6.99)	-10.32 (11.51 to -5.25)	-7.19 (7.59 to -1.62)
Fort Carson	3,000	0.81 (7.56 to -8.16)	0.72 (8.06 to -7.74)	1.37 (3.74 to -4.23)	0.92 (3.21 to -1.57)	-8,000	-2.16 (7.56 to -8.16)	-1.93 (8.06 to -7.74)	-3.66 (3.74 to -4.23)	-2.44 (3.21 to -1.57)
Fort Drum	3,000	2.9 (15.54 to -5.73)	2.64 (13.09 to -4.00)	4.71 (5.29 to -3.23)	3.02 (3.18 to -0.88)	-8,000	-7.73 (15.54 to -5.73)	-7.10 (13.09 to -4.00)	-12.56 (5.29 to -3.23)	-8.06 (3.18 to -0.88)
Fort Gordon	no gain	no gain	no gain	no gain	no gain	-4,317	-3.04 (9.85 to -10.61)	-2.62 (6.53 to -5.85)	-4.66 (3.95 to -9.52)	-3.11 (2.23 to -1.42)
Fort Hood	3,000	1.16 (9.48 to -8.15)	1.09 (6.84 to -7.66)	1.68 (4.01 to -3.43)	1.18 (4.57 to -1.14)	-8,000	-3.10 (9.48 to -8.15)	-2.90 (6.84 to -7.66)	-4.49 (4.01 to -3.43)	-3.15 (4.57 to -1.14)
Fort Irwin	no gain	no gain	no gain	no gain	no gain	-2,375	-0.38 (13.48 to -5.93)	-0.27 (12.75 to -4.33)	-0.60 (3.64 to -3.85)	-0.30 (3.64 to -2.16)
Joint Base Elmendorf-Richardson	1,000	0.67 (18.14 to -12.89)	0.67 (17.02 to -10.77)	0.90 (9.94 to -3.67)	0.85 (5.46 to -2.08)	-4,341	-2.93 (18.14 to -12.89)	-2.93 (17.02 to -10.77)	-3.90 (9.94 to -3.67)	-3.7 (5.46 to -2.08)
Joint Base Langley-Eustis	no gain	no gain	no gain	no gain	no gain	-2,730	-0.94 (10.81 to -8.18)	-0.96 (10.06 to -6.52)	-1.71 (2.96 to -2.88)	-1.34 (3.28 to -1.00)
Joint Base Lewis-McChord	no gain	no gain	no gain	no gain	no gain	-8,000	-2.61 (8.95 to -6.14)	-1.37 (9.02 to -5.88)	-3.19 (2.56 to -8.09)	-1.92 (2.36 to -2.77)
Fort Knox	1,000	1.69 (9.11 to -7.48)	1.58 (9.23 to -6.42)	2.52 (7.08 to -6.99)	1.75 (6.62 to -4.53)	-3,840	-6.48 (9.11 to -7.48)	-6.05 (9.23 to -6.42)	-9.66 (7.08 to -6.99)	-6.67 (6.62 to -4.53)
Fort Lee	no gain	no gain	no gain	no gain	no gain	-2,432	-1.57 (12.76 to -8.35)	-1.48 (12.40 to -6.17)	-2.22 (3.24 to -7.97)	-1.77 (3.36 to -0.96)
Fort Leonard Wood	no gain	no gain	no gain	no gain	no gain	-3,864	-8.00 (8.81 to -8.54)	-6.75 (8.02 to -7.81)	-11.21 (5.85 to -6.2)	-7.5 (4.25 to -3.17)
Fort Polk	1,000	0.81 (8.90 to -9.28)	0.81 (7.17 to -7.71)	1.41 (5.1 to -5.15)	0.88 (3.43 to -2.42)	-5,316	-4.31 (8.90 to -9.28)	-4.30 (7.17 to -7.71)	-7.53 (5.1 to -5.15)	-4.70 (3.43 to -2.42)
Fort Riley	3,000	4.40 (10.72 to -8.95)	5.04 (9.16 to -8.19)	6.54 (5.48 to -3.60)	5.57 (8.06 to -2.81)	-8,000	-11.75 (10.72 to -8.95)	-13.45 (9.16 to -8.19)	-17.71 (5.48 to -3.60)	-14.9 (8.08 to -2.81)
Schofield Barracks	1,500	0.26 (11.96 to -4.16)	0.37 (10.83 to -4.04)	0.68 (3.64 to -1.78)	0.38 (3.50 to -0.94)	-8,000	-1.38 (11.96 to -4.16)	-1.99 (10.83 to -4.04)	-2.89 (3.64 to -1.78)	-2.03 (3.50 to -0.94)
Fort Sill	no gain	no gain	no gain	no gain	no gain	-4,714	-9.23 (9.92 to -12.21)	-8.45 (8.63 to -10.04)	-13.61 (7.24 to -5.25)	-9.50 (7.77 to -3.75)
Fort Stewart	3,000	8.06 (27.26 to -12.15)	4.62 (8.46 to -6.26)	8.27 (18.58 to -7.34)	5.17 (4.56 to -2.63)	-8,000	-21.48 (27.26 to -12.15)	-12.32 (8.46 to -6.26)	-22.04 (18.58 to -7.34)	-13.8 (4.56 to -2.63)
Fort Wainwright	1,000	2.72 (40.5 to -19.03)	2.12 (40.42 to -15.15)	3.82 (23.35 to -6.65)	2.58 (7.01 to -1.68)	-4,915	-13.36 (40.5 to -19.03)	-10.45 (40.42 to -15.15)	-18.80 (23.35 to -6.65)	-12.68 (7.01 to -1.68)

EIFS analysis by USACE, Mobile District; EIFS data from 1969-2000; Rational Threshold Value (RTV) with historical RTV range; Red indicates a potentially significant socioeconomic impact  
 Preparation/Revision: December 22, 2011; December 30, 2011; January 20, 2012; January 30, 2012; July 8, 2012

**Region Economic System (RECONS) Summary Table: Army 2020 Force Structure Realignment**

Installation Name	Total Installation Population FY 2011	Gain Scenario/Impact				Loss Scenario/Impact			
		Military Population Gain	Regional Sales Volume Impact	Regional Job Impact	Regional Income Impact	Military Population Loss	Regional Sales Volume Impact	Regional Job Impact	Regional Income Impact
Fort Benning	39,243	no gain	no gain	no gain	no gain	- 7,074	-2.51	-5.93	-5.23
Fort Bliss	32,352	3,000	0.58	1.27	0.82	-8,000	-1.56	-3.39	-2.20
Fort Bragg	56,983	no gain	no gain	no gain	no gain	-8,000	-2.56	-4.71	-2.97
Fort Campbell	32,425	3,000	2.80	3.98	2.58	-8,000	-7.48	- 10.63	- 6.88
Fort Carson	25,823	3,000	0.54	1.29	0.70	-8,000	-1.42	-3.4	-1.88
Fort Drum	19,079	3,000	2.76	4.75	2.86	-8,000	-7.35	-12.65	-7.63
Fort Gordon	13,864	no gain	no gain	no gain	no gain	-4,317	-2.19	-4.31	-2.61
Fort Hood	47,437	3,000	0.92	1.62	1.12	-8,000	-2.45	-4.33	-2.99
Fort Irwin	5,539	no gain	no gain	no gain	no gain	-2,375	-0.23	-0.58	-0.50
Joint Base Elmendorf-Richardson	6,923	1,000	0.27	0.75	0.45	-4,341	-1.26	-3.28	-2.01
Joint Base Langley-Eustis	9,899	no gain	no gain	no gain	no gain	-2,730	-0.83	-1.62	-0.96
Joint Base Lewis-McChord	36,777	no gain	no gain	no gain	no gain	-8,000	-1.80	-3.09	-1.38
Fort Knox	13,665	1,000	1.28	2.33	1.55	-3,840	-5.73	-9.16	-6.80
Fort Lee	16,257	no gain	no gain	no gain	no gain	-2,432	-0.91	-1.99	-1.26
Fort Leonard Wood	27,213	no gain	no gain	no gain	no gain	-3,864	-5.80	-10.25	-6.49
Fort Polk	10,877	1,000	0.52	1.51	0.90	-5,316	-2.75	-6.85	-4.13
Fort Riley	20,009	3,000	3.18	6.17	4.93	-8,000	-8.48	-16.46	-13.16
Schofield Barracks	18,563	1,500	0.20	0.68	0.39	-8,000	-1.10	-2.85	-2.07
Fort Sill	22,444	no gain	no gain	no gain	no gain	-4,714	-9.66	-13.66	-9.22
Fort Stewart	24,622	3,000	7.46	7.93	4.76	-8,000	-19.92	-21.14	-12.70
Fort Wainwright	7,430	1,000	1.40	3.36	1.5	-4,915	-7.13	-16.54	-7.32

RECONS analysis by USACE, Mobile District

Impact:

- Total direct and secondary effects at the regional level

Preparation/Revision: December 1, 2011; January 9 – 12, 2012; January 17, 2012; January 30, 2012; July 8, 2012