

**SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS [TABS FINAL VERSION]**

**SCENARIO # USA-0221v3**

**TITLE: USA-0221v3 TRANSFORMATION OF THE**

**OPERATIONAL ARMY FORCES STRUCTURE**

**GENERAL DESCRIPTION:** Realign Fort Bliss, TX by relocating an Air Defense Artillery Brigade to Fort Sill and relocating 1st Armored Division and various echelon above division units to Fort Bliss, TX. Realign Fort Sill by relocating an Artillery (Fires) Brigade to Fort Bliss. Realign Fort Hood, TX by relocating maneuver battalions and a support battalion to Fort Bliss, Texas. Realign Fort Riley, KS by inactivating various units and relocating 1st Infantry Division units and various echelons above division units to Fort Riley, KS. Realign Fort Campbell, KY, by relocating an Attack Aviation Battalion to Fort Riley, KS.

Proposal Affects the following Army installations:

1. Ft Bliss gains approximately 14,900 personnel and construction of approximately 11,106,000 SF MilCon.
2. Ft Riley gains approximately 8,000 personnel and construction of approximately 1,677,000 SF MilCon. (Only 2900 personnel reflected in COBRA moves, but due to activations, net pers increase is approximately 8,000.
3. Fort Sill gains approximately 1,100 personnel and requires no MilCon.
4. Fort Hood loses approximately 5,100 personnel and Fort Campbell loses approximately 150 personnel.

**ANALYST:** \_\_\_\_\_

**LAST UPDATED:** 4/25/05

Env Resource Area	<i>Gaining</i> Installation Assessment Inst Name: <b>Ft Bliss</b>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Impact Expected. Currently in serious Non-Attainment for O3, and marginal Non-Attainment for PM, & CO.  Added operations may exceed major source thresholds for several pollutants. A New Source Review and Air Conformity analysis will be required. May need to pursue a Title V permit or Synthetic Minor Permit.	#213 – Non-attainment for O3, PM10, & CO. #211 -major source threshold projected to be exceeded for VOC (based on 1/2 Ft Hood emissions – Ft Hood has similar units) #220 - no permits. #218/ISR - No mission impact indicated.
Cultural/Archeological/ Tribal Resources	11K acres include cultural resources, but no restrictions to training, operations, or construction reported. 407 historic properties listed. 2 Native American tribes assert an interest in archeological sites. Tribal negotiations may be required to expand use near listed areas. Potential impacts may occur since resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs.	#230,232 - 11.2K acres affected, but no restrictions to tng/opns reported #231 - No Native peoples sites #233, 40% surveyed #235- 408 historic props; #236 - No prog agreement #234 - 2 tribes in formal consultation. ISR2 - no adverse impact to mission.
Dr ed g- ing	No Impact	#226-228 – No restrictions
Land Use Constraints/Sensitive Resource Areas	No impact.	#30 – >10,000 buildable acres available without using housing /training land, approximately 820 acres req'd (based on 3.8 brigades * 264 acres). #201, 254, 256 - no restr. CERL Study – minimal encroachment projected
Mar ine Ma mm als/ Mar	No Impact	#248-253 – No restrictions

Noise	No impact.	#239 - No noise contours off-installation. CERL - minimal encroachment, so noise impact may be mitigated.
Threatened & Endangered Species/Critical Habitat	<p>Federally listed species include Sneeds Pincushion Cactus and Bald Eagle, but these impact less than 1% of training land.</p> <p>Threatened / Endangered species exist but do not currently impact operations. Additional operations may impact TES possibly leading to restrictions on operations.</p>	<p>#259 lists Sneeds Pincushion Cactus, Bald Eagle, but impacts &lt;1% of training land. *Note Subject Matter Expert from Army Environmental Center indicates there is a third TES on installation that was not reported in Data Call.</p> <p>#260-262,264 - No habitat restrictions</p> <p>#263 - 1 candidate species, impacts &lt;1% land;</p> <p>ISR2 shows no impact.</p>
W a s t e	No impact.	#269 Has RCRA Subpart X Permit
Water Resources	Will require upgrades of water and wastewater infrastructure and will likely require purchase or development of new potable water sources, to include, perhaps desalination technology.	<p>#276,278,293 - No previous restrictions</p> <p>#824/825 indicates adequate water avail</p> <p>IREM - water infr can support 12.5K more people before upgrade needed.</p> <p>#279 - Doesn't discharge to imp waterway.</p> <p>#282 - No industrial ww plant</p> <p>#291 – Has 1 potable water production plant on-installation</p> <p>#297,822 – 4 dom ww treatment plants on installation and 1 off-installation (public owned) plant.</p>
W e t l a n d s	No impact.	#251, 257 - No jurisdictional wetlands.

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);**  
**SCENARIO # USA-0221v3**

Env Resource Area	#2 <i>Gaining</i> Installation Assessment Inst Name: <b>Ft Riley</b>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	The receiving installation is in attainment for all NAAQS.	#213 – Attainment for all criteria pollutants #211 –No permit thresholds reported #220 -Has a Major Operating/Title V Permit #218 - No restrictions
Cultural/Archeological/Tribal Resources	232 Archeological/tribal/burial/sacred sites identified, some of which restrict training with a limitation on vehicle traffic and tactical digging. 295 historic properties. Five Native American tribes have asserted interest. Potential impact may occur as a result of increased time delays and negotiated restrictions. Cultural / archeological / tribal resources currently restrict operations. Additional operations may impact these resources and result in further restrictions on training or operations.	#230-232 – Arch sites, Native People sites & high potential sites reported with restrictions on tactical digging and vehicle use in training/cantonment areas #233 - 28% surveyed; #235- 295 historic properties #236 – Has prog agreement; #234 - 5 tribes assert interest, 2 in formal consultation. ISR2 - no adverse impact to mission.
Drilled Digging	No Impact	#226-228 – No restrictions
Land Use Constraints/Sensitive Resource Areas	No impact.	#30 - Buildable Acres - >2624 acres available without using housing /training land, 428 required (based on approximate equivalent of 2 Heavy Brigades) #201, 254, 256 - no restr/coordination required CERL Study – minimal encroachment projected
Marine Mammals/Marine	No Impact	#248-253 – No restrictions
Noise	Potential impact. Operations are currently restricted due to noise considerations. Adding 1 brigade-sized unit increases noise generating activities, so future operations may be restricted as well. Further evaluation required.	#201-Live firing by active component unit is restricted (per installation command generated policy) between 0001 and 1200 hours on Sundays. Applies only to Active Component units, not to NG or RC units. #239 – 81 Noise Zone 2 acres and 14 Noise Zone 3 acres extend off-installation, which is minimally encroached by development.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Threatened &amp; Endangered Species/Critical Habitat</p>	<p>4 Federally listed species on installation, with some restrictions to 5% of land for Bald Eagle and Topeka Shiner (fish). Restrictions include limitations on public works projects during winter eagle roosting, and training controls next to Topeka Shiner streams, with tank trail maintenance and stream crossings limited during Topeka Shiner spawning season.</p> <p>Additional operations may further impact threatened / endangered species leading to additional restrictions on training or operations.</p>	<p>#259 lists 4 species with restrictions for two species – for the Bald Eagle, 2% land restricted; for Topeka Shiner, 3% of land restricted (trng controlled next to Topeka Shiner streams)</p> <p>#261- BO restricts tank trail maintenance and stream crossings during Topeka Shiner spawning season</p> <p>#260-262-264 - No critical habitat or candidate species restrictions</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">W a s t e</p>	<p>No impact.</p>	<p>#269 Has RCRA Subpart X Permit</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Water Resources</p>	<p>No impact.</p>	<p>#276- Not over a recharge zone</p> <p>#278, 293 - No previous restrictions</p> <p>IREM - water infr can support 42K additional personnel</p> <p>#279 - Doesn't discharge to imp waterwy.</p> <p>#282 - 1 industrial ww plant</p> <p>#291 – Has 2 potable water production plants on-installation</p> <p>#297,822 – 4 domestic ww treatment plants on installation</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">W e t l a n d s</p>	<p>No impact.</p>	<p>#257 - No wetlands restrictions reported.</p>

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);**  
**SCENARIO # USA-0221v3**

Env Resource Area	#3 <i>Gaining</i> Installation Assessment Inst Name: <b>Ft Sill</b>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	In attainment for all criteria pollutants. No impact.	#212 - No HAPS #213 - In attainment for all criteria pollutants #211 Added emissions for SO2 are close to, but under, the permit limit. #218/ISR No mission impacts
Cultural/Archeological/Tribal Resources	365 historic sites and 337 archeological sites are reported, which currently restrict future construction/training/testing. 8 Native American Tribes assert interest in archeological sites, so a potential impact may occur as a result of increased time delays and negotiated restrictions. Since there is no Programmatic Agreement in place, potential impacts may occur, since resources must be evaluated on a case-by-case basis, thereby causing increased delays and costs. Cultural/archeological/tribal resources currently restrict operations. Additional operations may impact these resources, which may lead to increased delays and costs. Likely no impacts since there is no new construction.	#230 - 337 total arch sites, some restrict constr & operations/training/testing #232 - High potential for Archeological sites #231 – Native People’s sites present #233 – 60% surveyed #234 - 8 Native tribes assert interest & in formal consultation (Apache Tribe of Oklahoma, Comanche Nation, Cheyenne-Arapahoe Tribes, Ft. Sill Apache Tribes, Kiowa Tribe, Caddo Indian Nation of Oklahoma, Delaware Tribe of Western Oklahoma, Wichita and Affiliated Tribes #235 -365 historic resources listed #236 - No programmatic agreement ISR - Arch site restrictions impact mission
Dredging	No Impacts	#226, 227, 228 – N/A
Land Use Constraints/Sensitive Resource Areas	No Impacts. Aircraft training around Ft Sill are restricted by nearby sensitive habitat. Aircraft overflight limited to daytime only and altitude must remain above 2000 over the Wichita Mountain Wildlife Refuge.	#30- Buildable Acres –>800 non-training acres available, 0 required. #254, #256-Sensitive Resource Areas restrictions reported CERL Study – Moderate Encroachment
Marine M	No Impact	#248, 249, 250, 252, 253 – N/A
Noise	1551 acres of Noise Zone II extend outside of installation boundary. Increased noise may result in operational restrictions on the installation. Further evaluation is required.	#239 - 1551 acres of Noise Zone II extend off installation, which is moderately encroached by development

Threatened & Endangered Species/Critical Habitat	Installation has 1 TES (Black-Capped Vireo) which results in restrictions on training land at high altitudes. 1 candidate species present with minimal current impact on operations. Additional operations may further impact threatened / endangered species leading to additional restrictions on training or operations.	#259 - Black-capped Vireo. Some restrictions on high altitude training (orienteering) #261- Biological opinions for Vireo in place that restrict installation operations and range operation. 262 - No critical habitat #263 - 1 candidate species (Prairie Dog) no restriction for this species. #264 – No proposed critical habitat restrictions ISR2 shows no impact.
Waste Management	No Impact	#269 - Ft Sill does not have a RCRA Subpart X permit, but not an issue since ADA school is likely not performing waste munitions management and if it is, it is occurring on an active range.
Water Resources	Water quality impaired by pollutant loadings. Current operations may contribute to impaired water quality. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve USEPA Water Quality Standards.	#276 - Not over recharge zone #278 – McCarren Amendment does not apply #293 - 14 days of water controls/restr reported in FY02 IREM indicates water infrastructure has ample surplus #279 Discharges to 2 impaired waterways, but does not impair the waterway which is not a source of potable water. ISR - No impact to mission
Wetlands	No Impact	#251 – Survey completed in 04/95 #257 - 1.25% wetland restricted acres

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);  
SCENARIO # USA-221v3**

Env Resource Area	<i>Losing Installation Assessment</i> Inst Name: <b>Fort Hood, Fort Campbell</b>	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No Impacts.	Environmental impacts to losing installations are considered neutral or positive to all ten resource areas.
Cultural/ Archeological Resources	No Impacts.	
Dredging	No Impacts.	
Land Use Constraints/Sensitive Resource Areas	No Impacts.	
Marine Mammals/ Marine Resources	No Impacts.	
Noise	No Impacts.	
Threatened & Endangered Species/ Critical Habitats	No Impacts.	
Waste Management	No Impacts.	
Water Resources	No Impacts.	
Wetlands	No Impacts.	

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);**

SCENARIO: **USA-221V3**

***IMPACTS OF COSTS***

Env Resource Area	Gaining Installation Inst Name: <b>Ft Bliss, Ft Riley, Ft Sill</b>	Losing Installation Inst Name: <b>Fort Hood, Fort Campbell</b>
Environmental Restoration*	None	None. Installations are not closing.
Waste Management	None	None

Environmental Compliance	<p><b><u>Ft. Bliss:</u></b></p> <ul style="list-style-type: none"> <li>-Re-alignment NEPA (EIS) - \$1M.</li> <li>-Air Conformity Analysis - \$25K-\$75K</li> <li>-New Source Review - \$100K-\$500K</li> <li>-Develop PA -\$10K</li> <li>-Mitigation of archeological site by data recovery IAW PA - \$25K-\$500K per site depending on complexity</li> <li>-Mitigation of historic buildings/structures by HABS/HAER recordation IAW PA - \$25K-\$500K per site depending on complexity</li> <li>-Evaluation to determine if archeological/tribal site(s) are significant \$15K-\$40K per site.</li> <li>-Evaluation to determine if historic buildings/structures are significant - \$1000-\$2000 per building depending on size and location.</li> <li>-Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting.</li> <li>-ESA Consultation (BA Prep) \$10K-\$100K</li> <li>-Endangered Species Management (includes monitoring) \$20K-\$2M</li> <li>-Noise analysis and monitoring -\$5K-\$75K</li> </ul> <p><b><u>Ft. Riley:</u></b></p> <ul style="list-style-type: none"> <li>-Realignment NEPA -\$1M (EIS)</li> <li>-Mitigation of archeological site by data recovery IAW PA - \$25K-\$500K per site depending on complexity</li> <li>-Evaluation to determine if historic buildings/structures are significant - \$1000-\$2000 per building depending on size and location.</li> <li>-Evaluation to determine if archaeological/tribal site(s) are significant \$15K-\$40K per site.</li> <li>-Conduct Tribal govt to govt consultations - \$2K-\$10K per meeting.</li> <li>-Noise analysis and monitoring -\$5K-\$75K</li> <li>-Endangered Species Management (includes monitoring) \$20K-\$2M</li> <li>- ESA Consultation (Biological Assessment Prep) – \$10K to \$100K/2 – 12 months</li> <li>-Endangered Species planning level survey -\$20K-\$100K/2-6 months</li> </ul> <p><b><u>Ft. Sill:</u></b></p> <ul style="list-style-type: none"> <li>-Endangered Species Management (including monitoring) \$20K - \$2M.</li> <li>- ESA Consultation (Biological Assessment Prep) – \$10K to \$100K/2 – 12 months</li> <li>-Realignment NEPA at gaining installation - \$400K (EA)</li> <li>-Install BMPs to protect impaired waterways and reduce non-point source runoff from training areas \$100K-\$3M</li> <li>-Noise analysis - \$5K-\$75K</li> </ul>	None
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<b>COBRA Costs:</b>	<u>Ft. Bliss:</u> Air Conformity Analysis - \$50K New Source Review - \$100K NEPA (EIS) - \$1M. Noise analysis -\$20K  <u>Ft. Riley:</u> Realignment NEPA -\$1M (EIS) Noise analysis -\$20K  <u>Ft. Sill:</u> Realignment NEPA at gaining installation (EA) - \$400K Noise analysis - \$20K	None
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