



TABS TRAINING

Criteria 6, 7, 8

4 June 2004

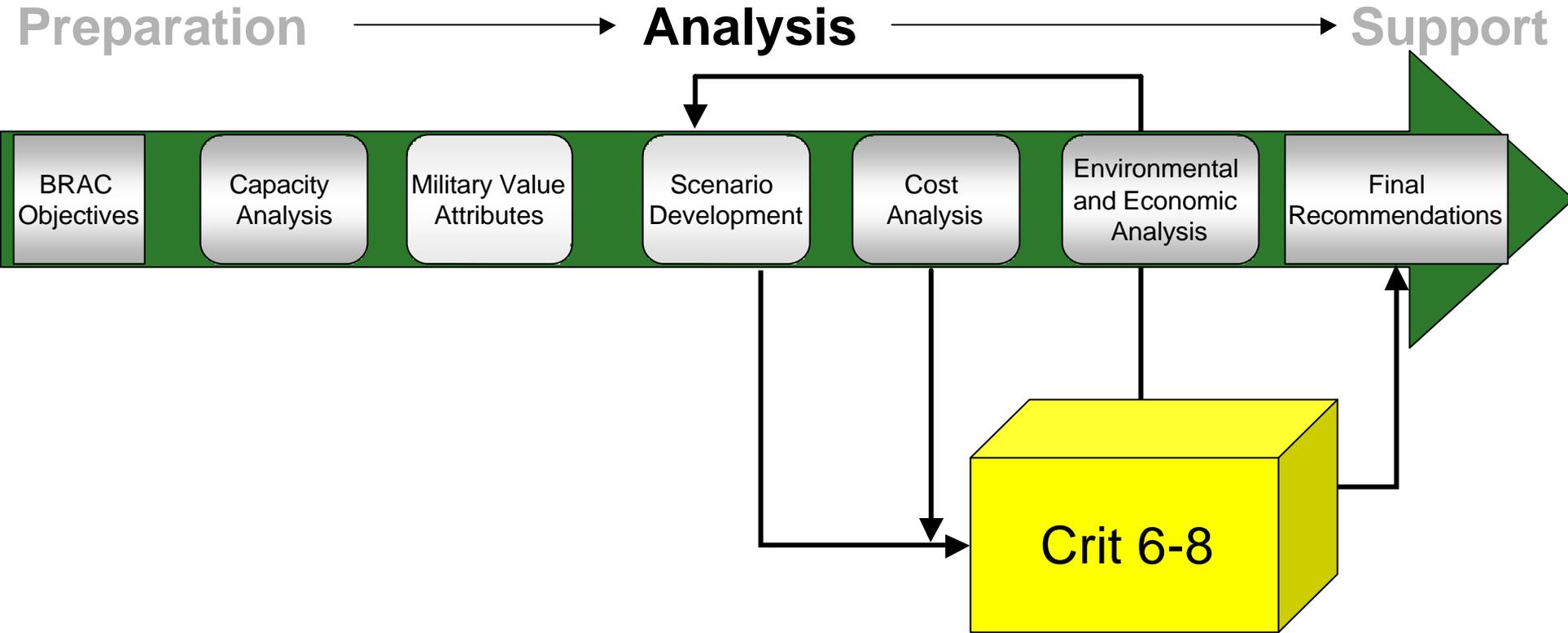


Agenda

- Introduction
- Criterion 6 (LTC Crabtree)
- Criterion 7 (SGM Crossett)
- Criterion 8 (LTC Crabtree)
- IVT (Terry Rhea)
- Practical Exercise



Today's Class





Criterion 6 – Economic Impact

Purpose: Address the economic impact on existing communities in the vicinity of military installations.

- OSD developing web-based model
- Model determines direct & indirect job losses due to BRAC.
- Analyst inputs positions eliminated and moved (from COBRA)



CRITERION 7



Agenda

- Objective
- Local Area Overview
- The Process
- The Product



Purpose

- Purpose:
 - Familiarize TABS Personnel with Local Area and how the data assesses risks for the scenario process.
- TABS personnel learning objectives:
 - Be familiar with Local Area attributes/metrics.
 - Understand the Local Area ranking and how to use it with the scenario process.



Introduction to Criterion 7

- Criterion 7- local area (MSA vs MHA)

Does NOT include the installation!

- Determine “risk assessment” by comparative analysis, not military value
- Reviewed during each scenario



Attributes/Metrics

- **Child Care-** licensed and accreditation
- **Cost of Living-** median household income, value of owner occupied housing, BAH, and GS locality pay rate
- **Education-** in-state tuition policy, pupil teacher ratio, HS teacher certification, student capacity, enrollment, SAT I score, ACT score, HS graduation rate, HS enrollment, vocational/technical schools, undergraduate schools, and graduate schools
- **Employment-** unemployment rate and job growth rates
- **Housing-** rent and for sale



Attributes/Metrics

- **Medical/Health-** physicians and beds
- **Population Center-** proximity to nearest city and MSA/MHA population
- **Safety-** crime rate
- **Transportation-** proximity to airport and public transportation
- **Utilities-** usage, capacity and population



Example: Ranking

	\$1127.00	Carlisle
	\$1131.00	Pueblo Chem Depot
	\$1133.00	Ft Carson
	\$1134.00	Ft Benning
	\$1137.00	Ft Sam Houston
	\$1138.00	Corpus Christi ADA
	\$1152.00	Charles Kelley Support Act
	\$1,166.00	Mississippi AAP
	\$1,169.00	Lake City AAP

- TABS will use all metrics to evaluate a scenario
- List installations by comparative analysis
- Not to be used as military value

Example:

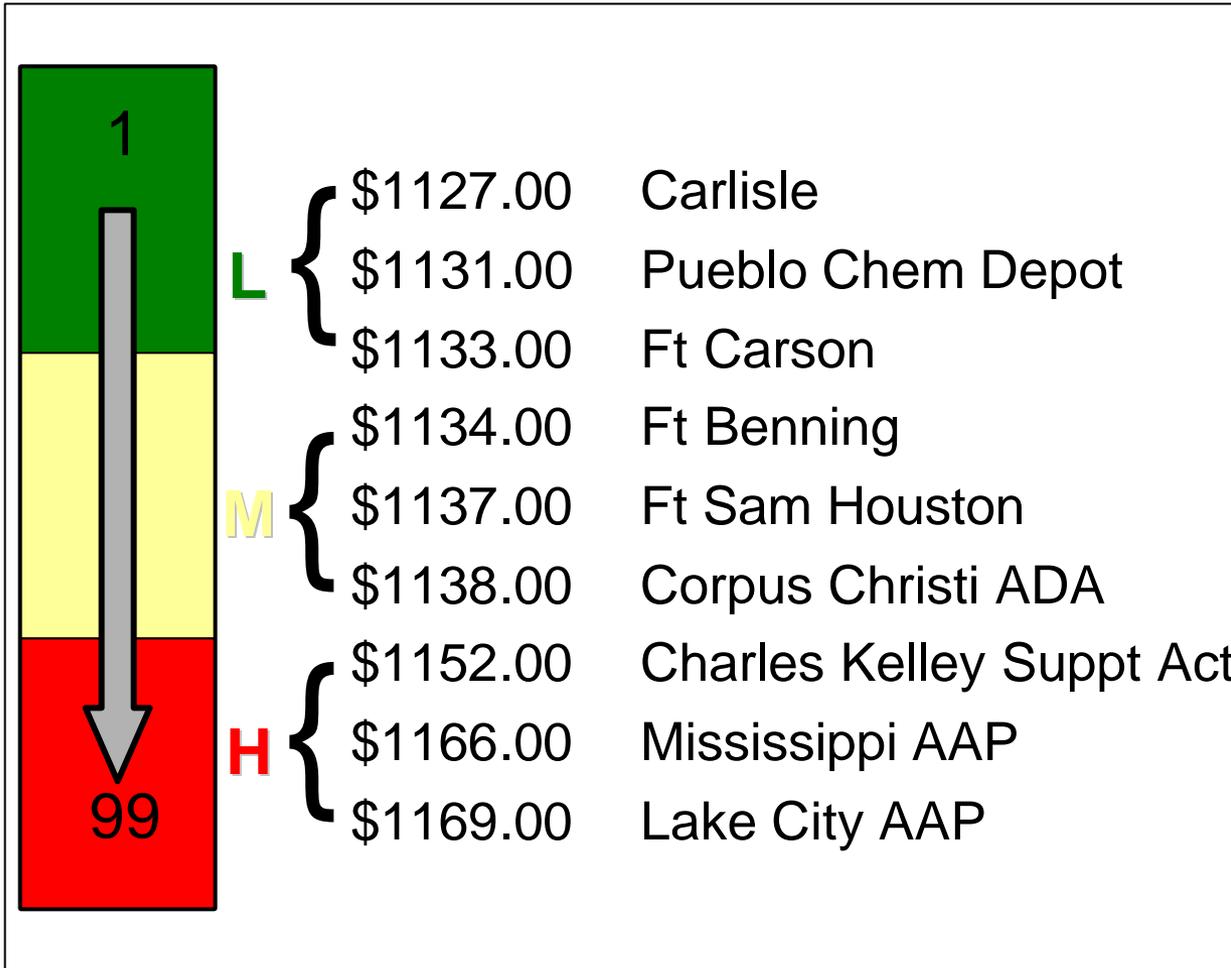
- Ranked by Metric (BAH)

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TABS Risk Factor



- Ranked by Metric (BAH)
- Risk Factor rating L-M-H
- Break points to be determined by data analysis



Consolidated Risks

Installation	Licensed Child Care Facilities	Accredited Child Care Facilities	Median Household Income	Value Owner Occupied Housing Unit	BAH Rate	GS Locality Pay Rate	In-State Tuition Policy	Pupil Teacher Ratio	Student Capacity	Enrollment	SAT I Scores	Graduation Rate
Anniston AD	Yellow	Red	Green	Green	Green	Green	Red	Red	Red	Green	Yellow	Yellow
Ft Rucker	Yellow	Red	Red	Yellow	Green	Green	Red	Red	Yellow	Green	Red	Red
Redstone Arsenal	Red	Yellow	Yellow	Yellow	Green	Green	Red	Yellow	Red	Yellow	Yellow	Yellow
G-A-R determined by data analysis												



Risk Points

Installation	Licensed Child Care Facilities	Accredited Child Care Facilities	Median Household Income	Value Owner Occupied Housing Unit	BAH Rate	GS Locality Pay Rate	In-State Tuition Policy	Pupil Teacher Ratio	Student Capacity	Enrollment	SAT I Scores	Graduation Rate	Point Total
Anniston AD	2	1	3	3	3	3	1	1	1	3	2	2	25
Ft Rucker	2	1	1	2	3	3	1	1	2	3	1	1	21
Redstone Arsenal	1	2	2	2	3	3	1	2	1	2	2	2	23

Green- 3 points

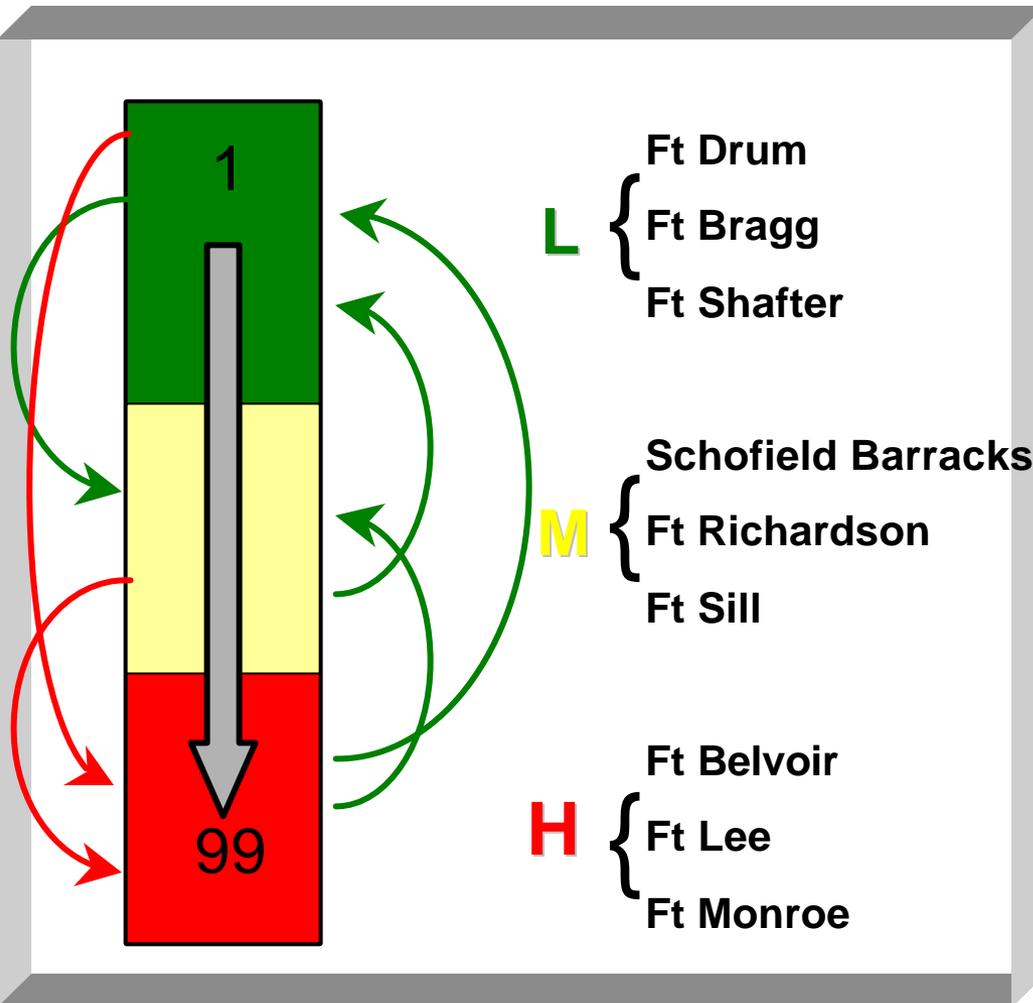
Amber- 2 points

Red- 1 point

Moving Ft Rucker to Anniston, the risks levels are reduced except in Student Capacity. Does not mean that this scenario is bad. Moving from Anniston to Ft Rucker increases risks in 4 metrics by comparison.



Overall Ranking



- Ranked by overall point rating

Installation	Licensed Child Care Facilities	Accredited Child Care Facilities	Median Household Income	Value Owner Occupied Housing Unit	BAH Rate	GS Locality Pay Rate	In-State Tuition Policy	Pupil Teacher Ratio	Student Capacity	Enrollment	SAT I Scores	Graduation Rate	Point Value
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Redstone Arsenal	1	2	2	2	3	3	1	2	1	2	2	2	23

- Ranking helps the analysts determine possible risk for scenarios
- If a risk is identified, the analyst annotates the risks in their documentation.



Product

What tool will the analyst have to determine assessed risks for the local community?

Installation	Overall Rating	Overall Risk Points
Ft Drum	Green	142
Ft Bragg	Green	132
Ft Shafter	Green	131
Schofield Bks	Yellow	111
Ft Richardson	Yellow	111
Ft Sill	Yellow	109
Ft Belvoir	Red	54
Ft Lee	Red	39
Ft Monroe	Red	19



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Product

What tool will the analyst have to determine assessed risks for the local community?

Analysts will:

- determine risks by comparison
- identify relative risk

Coordinator will:

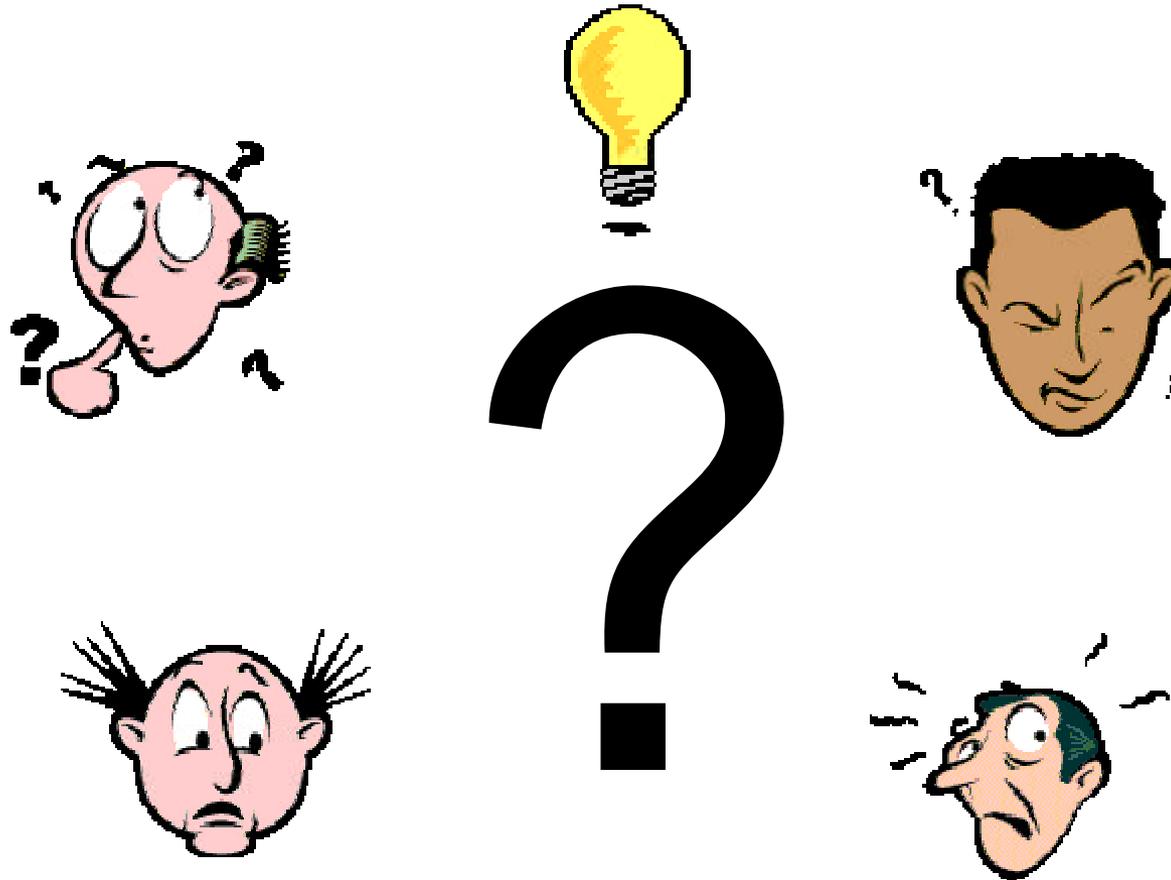
- coordinate risks absorption

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Schofield Bks		111
Ft Richardson		111
Ft Sill		109
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Criterion 8 & TABS Environmental Methodology



Criterion 8 Agenda

- Introduction
- TABS Analyst Environmental Methodology
- Buildable Acres Assessment
- Summary
- Practical Exercise

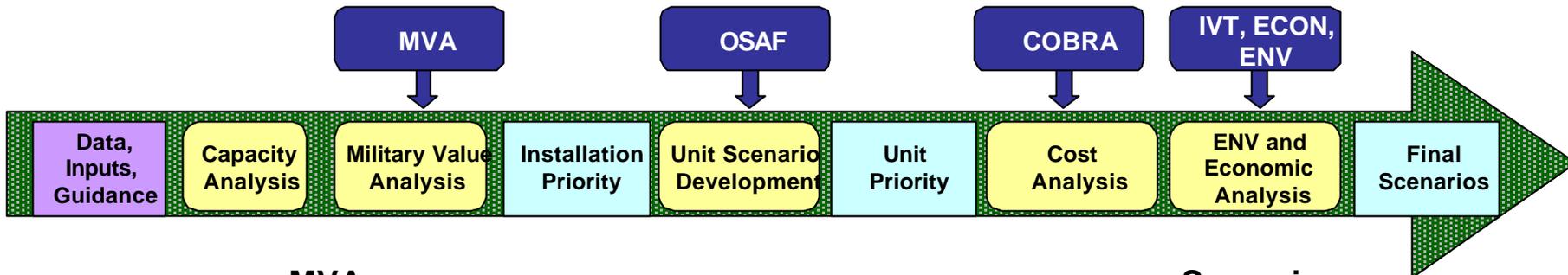


Purpose & Learning Objectives

- Purpose:
 - Train TABS on the BRAC 2005 environmental process
- Personal learning objectives:
 - Be familiar with BRAC 2005 Criterion 8
 - Understand how environment is integrated in TABS process:
 - Components of capacity, military value, scenario development, and scenario analysis
 - Using the TABS Environmental Checklist
 - Know how to conduct a buildable acres assessment



TABS Environment Overview



Capacity Analysis

- Water, waste, power production and consumption
- Compliance status of air, water, soil
- Land constraints due to noise, env laws, urban encroachment

MVA

- Env elasticity – capacity to absorb more units
- Air Quality
- Water Quantity
- Noise Restrictions
- Soil Resiliency
- Buildable Acres
- Urban sprawl

Scenario Development

- Env profiles highlighting 10 resource areas
- Env checklist for potential env scenario stoppers
- Buildable acres assessment



COBRA

- BOS recurring costs for compliance, pollution prevention, conservation
- 1-time costs to increase capacity at gaining bases

Scenario Analysis

- Scenario impact summaries addressing 10 resource areas

Option Analysis

- Cumulative env impact of all scenarios on installation

JPAT8 products

Transforming Through Base Realignment and Closure



BRAC Selection Criteria

Other Considerations:

5. The extent and timing of potential costs and savings, including the number of years, beginning with the date of completion of the closure or realignment, for the savings to exceed the costs.
6. The economic impact on existing communities in the vicinity of military installations.
7. The ability of both the existing and potential receiving communities' infrastructure to support forces, missions, and personnel.
8. The environmental impact, including the impact of costs related to potential environmental restoration, waste management, and environmental compliance activities.





JPAT8 Products

Before Scenarios Developed:

1. Installation Environmental Profiles
 - Installation’s current environmental picture
 - Compiled by host MilDep or Defense Agency
 - Standardized report summarizing raw environmental data from Data Call 1

After Scenarios Developed:

2. Summary of Scenario Environmental Impact
 - Environmental impacts for affected installations/activities
 - Based on proposed scenario & installation profiles
 - Compiled by host MilDep or Defense Agency
 - Includes some restoration costs at closing bases
 - Known IR sites under DERA/DERP
 - Does not include operational range cleanup
3. Cumulative Summary of Scenarios’ Environmental Impacts
 - Listing all final scenarios affecting a particular installation
 - Compiled by host MilDep or Defense Agency
 - Built from the individual scenario impact summaries



Installation Environmental Profiles

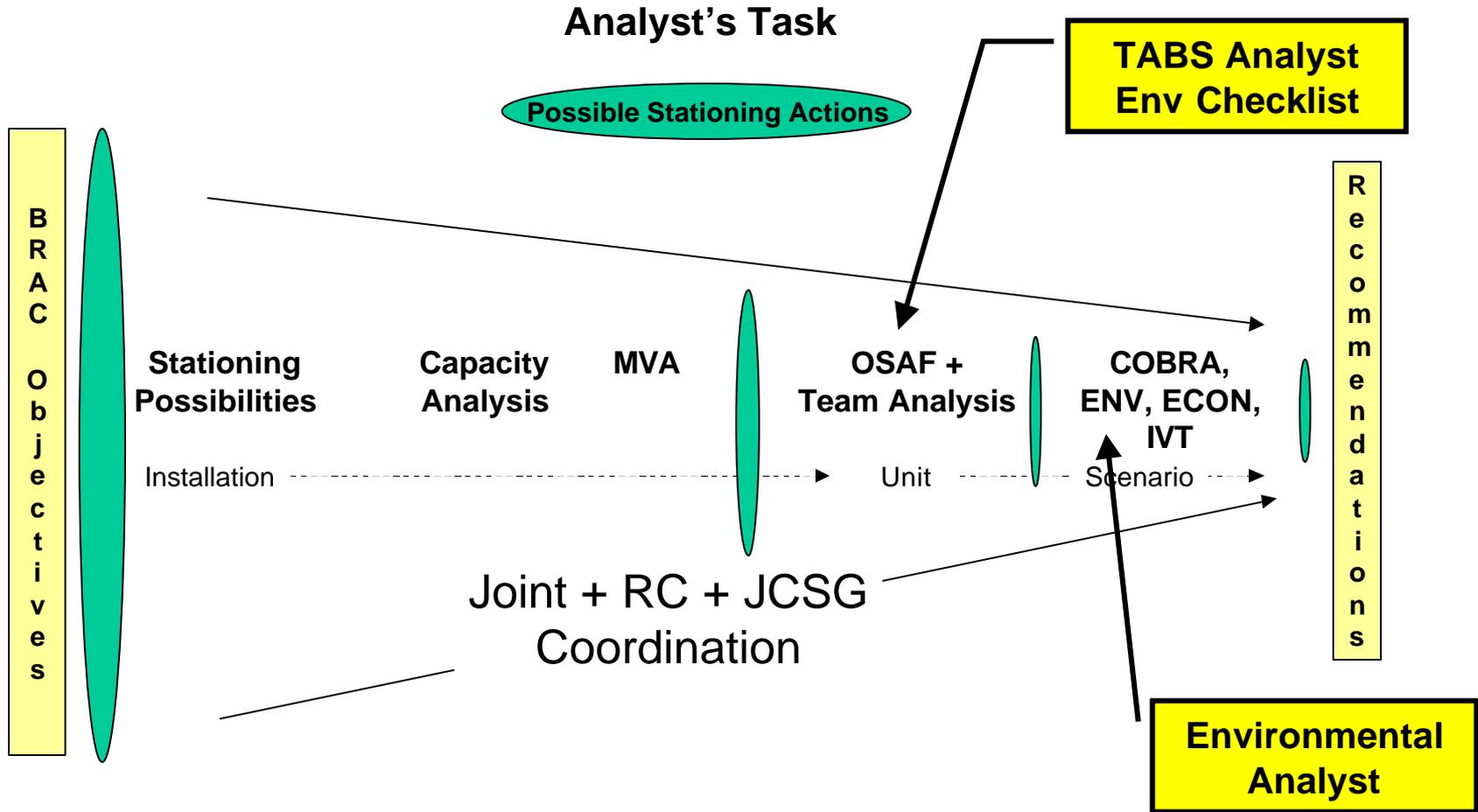
- Organizes environment data from data call #1
- For JCSG & TABS analyst use in scenario development
- Summarizes 10 key environmental resource areas
 - Air Quality
 - Cultural/Archeological/Tribal Resources
 - Dredging
 - Land Use Constraints/Sensitive Resource Areas
 - Marine Mammals/Marine Resources/Marine Sanctuaries
 - Noise
 - Threatened and Endangered Species
 - Waste Disposal
 - Water Resources
 - Wetlands



TABS Analyst Environmental Methodology



Analyst's Tasks





TABS Analyst Env Checklist

Separate checklist required for each receiving installation, in every distinct scenario

Steps:

1. Pull & attach installation checklist - available on J:\drive
2. Read Appendix 1 - Installation Env Profile
 - Narrative of 10 resource areas (JPAT8 areas)
3. Complete the checklist
 - Summary matrix is based on data call data – potential constraints
 - Adds narrative of TABS Water Quantity attribute
 - **For all RED areas => address impact on scenario (GO or NO GO)**
4. Complete buildable acres assessment – attach as Appendix 2
 - Required *unless* RPLANS has excess that meets all requirements
5. List any other environmental concerns in **Comment** block
 - Questions – ask an environmental analyst
6. Sign and Date
 - Completed checklist will be incorporated into Scenario Tracker



Appendix 1: Installation Environmental Profile

Camp Swampy



1. Air Quality (DoD Question #210-225):

Camp Swampy is in Attainment for all criteria pollutants. Operating permits for Stationary Source Emissions contain excess capacity.

2. Cultural/Archeological/Tribal Resources (DoD Question #229-237):

Camp Swampy has no reported restrictions due to cultural, archeological, or tribal resources.

3. Dredging (DoD Question # 226-228):

Camp Swampy has no impediments to dredging. It has no restrictions due to ordnance. It has no disposal site.

4. Land Use Constraints/Sensitive Resource Areas (DoD Question #198-201, 238, 240-247, 254-256, 273):

Camp Swampy has constrained acreage affecting **13,000** acres out of **62,972** total Acres. It has spent **\$8,833,000** thru FY03 for environmental restoration, and has estimated the Cost to Complete at **\$10,379,000** (FY04 thru completion). Camp Swampy **has** Explosive Safety Quantity Distance Arcs, some with the potential for expansion. It **has** underground storage tanks. It **has** Military Munitions Response Areas.

5. Marine Mammal/Marine Resources/Marine Sanctuaries (DoD Question #248-250, 252-253):

Camp Swampy has no reported restrictions.



Appendix 1: Installation Environmental Profile

Continued



6. **Noise (DoD Question # 202-209, 239):**

Camp Swampy **does not have** noise contours that extend off the installation's property. It **does not have** published noise abatement procedures.

7. **Threatened and Endangered Species/Critical Habitat (DoD Question #259-264)**

Camp Swampy reported that federally-listed TES **are present**, and that **do** delay or divert operations/testing/training. Critical habitat **is not** present, and Camp Swampy's main installation **does have** a biological opinion that places restrictions on operations.

8. **Waste Management (DoD Question # 265-272):**

Camp Swampy **does not have** a permitted RCRA Treatment Storage and Disposal Facility (TSDF). Camp Swampy **does not have** an interim or final RCRA Part X facility. Camp Swampy **does not have** an on-base solid waste disposal facility.

9. **Water Resources (DoD Question # 258, 274-299):**

At Camp Swampy, surface water contamination **is** reported.

10. **Wetlands (DoD Question # 251, 257):**

Camp Swampy has **5.9%** Wetland Restricted Acres on the military installation.

TABS Analyst Environmental Checklist

Scenario # _____

Camp Swampy

APP 1	Air Quality	Cultural / Archl / Hist	Dredging	Land Use	Marine Resources	Noise	Threat & Endgd Species	Waste Mgt	Water Resources	Wetlands
TABS Attribute	Water Quantity	<p><i>Camp Swampy</i> has 5,000 acre-feet of surplus raw water available for expansion. On average, it produces 3.2 MGD of potable and nonpotable water with the capacity to produce 5.0 MGD. On average <i>Camp Swampy</i> processes 1.7 MGD of wastewater with the capacity to process 3.0 MGD.</p>								

Environmental Area	Assess Impact	Describe restrictions and impact on scenario:
	<input type="checkbox"/> Go <input type="checkbox"/> No Go	
	<input type="checkbox"/> Go <input type="checkbox"/> No Go	
	<input type="checkbox"/> Go <input type="checkbox"/> No Go	
	<input type="checkbox"/> Go <input type="checkbox"/> No Go	
Buildable Acres	<input type="checkbox"/> Go <input type="checkbox"/> No Go	Buildable Acres Required: _____ Buildable Acres Available: _____
Comments:		



Buildable Acres Assessment



Sequence of Steps

Step 1 – What do you need to station?

Step 2 – How many acres are needed?

- Pick a standard unit
- Estimate variance of your rqrmts from std unit
(1/4, 1/2, 3/4)
- Multiply % variance times std unit footprint

Step 3 – Does gaining installation have enough BA?

- By Total Acreage
- Verify acreage by parcels and land use

Step 4 – Check “Go/No Go” & Note any concerns



Standard Units

- Brigade (Light, Heavy)
- School (Large, Small)
- Administrative Organization (Large, Small)
- Industrial (Large, Medium, Small)
- Depot (Large, Medium, Small)
- Supply & Storage (Large, Medium, Small)

Brigade (UA) Light

SRC	ALO	UA Population 3,311		
06365F000	1	155MM SP Bn Force XXI	HQ & Admin	346,000 SF
07245F100	1	Inf Bn Mech (FXXI)	Org Classroom	23,000 SF
11103F300	1	Initial Bde Sig Co	Avn Maint	26,000 SF
17285F000	2	Div Cav Sqdn (XXI)	Veh Maint	203,000 SF
17375F100	1	Armor Bn (FXXI)	Hardstand	185,000 SY
34393A100	1	MI Co, Sep Bde	Dining Facilities	30,000 SF
			Barracks	1,298 SP
63115F600	3	FSB (1x2) FXXI (Pure)	Fitness Facilities	65,000 SF
87042F100	1	HHC Armor Bde (XXI)	Child Dev Ctrs	30,000 SF
			Chapels	28,000 SF



U.S. ARMY

Standard Unit Footprints in Acres



Brigade (UA)	
Light	187
	72 Administrative
	54 Industrial / Airfield Ops
	50 Barracks
	11 Community

Brigade (UA)	
Heavy	214
	85 Administrative
	59 Barracks
	54 Industrial / Airfield Ops
	16 Community

Admin Organization	
Small	7
	7 Administrative

Admin Organization	
Large	43
	33 Administrative
	6 Barracks
	4 Community

Schools	
Small	18
	15 Barracks
	3 Administrative

Schools	
Large	791
	645 Barracks
	128 Administrative
	11 Community
	7 Industrial

Depot Maintenance	
	84 Small
	65 Medium
	1,361 Large

Industrial	
	344 Small
	689 Medium
	1,377 Large

Supply & Storage	
	3 Medium
	9 Medium
	15 Large



Example - Transportation School



Step 1 – What do you need to station?

=> **Transportation School**

Step 2 – How many acres are needed?

– Pick a standard unit =>

- Brigade (Light, Heavy)
- **School (Large, Small)**
- Administrative Organization (Large, Small)
- Industrial (Large, Medium, Small)
- Depot (Large, Medium, Small)
- Supply & Storage (Large, Medium, Small)



– Estimate variance of your rqmts from std unit

Variance =>
~ 1/2 or 50%

Schools		Large	
Infantry School-Ft Benning			
1071/P	Inf School PCS students	420,000 SF	
1071/Y	Inf School TDY students	96,807 SF	
1809/B	Basic Trainee students	616,586 SF	
1809/R	Reception station students	18,000 SF	
1809/S	OSUT students	35,000 SY	
W0U2AA	USA Inf Center & Ft Benning	609 SP	
W0U2NA	USA Inf Center & Ft Benning	609 SP	

RPLANS:

FAC	FAC DESCRIPTION	UM	STN RQMT (000)	STN NEW CONST (000)
1711	General Purpose Instruction Building	SF	89	89
1712	Applied Instruction Building	SF	224	215
1717	Organizational Classroom	SF	13	13
2111	Aircraft Maintenance Hangar	SF	2	2
2141	Vehicle Maintenance Shop	SF	17	17
6101	Small Unit Headquarters Building	SF	85	85
6102	Large Unit Headquarters Building	SF	34	17
7210	Enlisted Unaccompanied Personnel Housing	SF	27	0
7213	Student Barracks	SF	257	257
7220	Dining Facility	SF	22	22
7240	Officer Unaccompanied Personnel Housing	SF	13	13
8521	Vehicle Parking, Surfaced	SY	76	61

Gen Instr Bldg	420,000 SF
Applied Instr Bldgs	96,807 SF
HQ & Admin	616,586 SF
Veh Maint	18,000 SF
Hardstand	35,000 SY
Dining Facilities	609 SP
Barracks- perm	609 SP
AIT/BCT Complex:	348,485 SF
BN Headquarters	14,951 SF
w/2 Classrooms	7,599 SF
Co Ops / Barracks	1,200 SP
Dining	29,924 SF
Fitness Facilities	151,000 SF
Child Dev Ctrs	30,000 SF
Chapels	89,000 SF



–Multiply % variance times std unit footprint

School, Small	Footprint Acres	School, Large	Footprint Acres
Total	18	Total	791
Barracks LUC	15	Barracks LUC	645
Administration LUC	3	Administration LUC	128

$$\Rightarrow 791 \times 0.50 = 395.5 \text{ Acres}$$

Step 3 – Does gaining installation have enough BA?

–By Total Acreage

$$\Rightarrow 2634 \text{ Acres (yes)}$$



–Verify acreage by parcels and land use

Installation	Total BA	5: Barracks Total Buildable Acres	3: Administrative Total Buildable Acres	9: Medical Total Buildable Acres	8: Industrial Total Buildable Acres	4: Airfield Operations Total Buildable Acres	6: Community Total Buildable Acres	13: Undetermined Use Total Buildable Acres	10: Outdoor Recreation Total Buildable Acres	7: Family Housing Total Buildable Acres	11: Training Areas/Ranges Total Buildable Acres
FORT CAMPBELL Total	4,863	326	64	20	92	157	216	2446	504	298	739
FORT CARSON Total	23,875	82	290	9	242	154	159	250	63	273	22355
FORT DETRICK Total	90	4	36	5	0	0	0	0	36	0	8
FORT DIX Total	3,086	105	103	20	316	0	10	0	0	447	2085
FORT DRUM Total	48,179	320	107	11	578	604	902	1514	131	1453	42558
FORT EUSTIS Total	338	9	0	0	12	0	0	266	0	51	0
FORT GILLEM Total	102	3	35	3	10	0	10	0	12	4	25
FORT GORDON Total	39,612	169	1521	175	726	0	27	0	360	1778	34856
FORT GREELY Total	1,000	25	50	50	100	150	50	400	150	25	0
FORT HAMILTON Total	0	0	0	0	0	0	0	0	0	0	0
FORT HOOD Total	8,592	60	1195	50	4315	475	1587	0	610	300	0
FORT HUACHUCA Total	997	35	220	10	170	10	25	0	175	100	252
FORT JACKSON Total	42,110	468	268	46	93	0	218	30900	304	399	9413
FORT KNOX Total	5,911	318	183	14	151	315	54	175	81	416	4204
FORT LEAVENWORTH Total	961	0	650	1	1	0	5	129	100	75	0
FORT LEE Total	2,634	70	157	12	71	0	69	1364	241	80	571
FORT LEONARD WOOD Total	7,005	77	337	0	17	0	33	6	19	1100	5416
FORT LEWIS Total	4,768	449	699	169	1116	405	377	838	228	487	0

Compatible Land Use Types



Appendix E: TABS Land Use Compatibility Matrix

Land uses are listed in order of magnitude required for TABS UA footprints.

	TABS LUC	Administrative	Barracks	Community	Medical	Industrial	Airfield Operations	Family Housing	Outdoor Recreation
Headquarters and general office buildings, classroom training, and laboratories.	Administrative			Positive	Positive	Negative	Negative		
Unaccompanied personnel housing, dining, and associated supporting facilities.	Barracks					Negative	Negative	Negative	
Base supporting organizations such as exchanges, commissaries, security police, education facilities, etc.	Community	Positive			Positive	Negative	Negative		Positive
Central utility plants, equipment/vehicle maintenance and production, supply and storage, and industrial type RDT&E facilities.	Industrial	Negative	Negative	Negative	Negative		Positive	Negative	Negative

Positive Compatibility Relationship 

Neutral Compatibility Relationship 

Negative Compatibility Relationship 



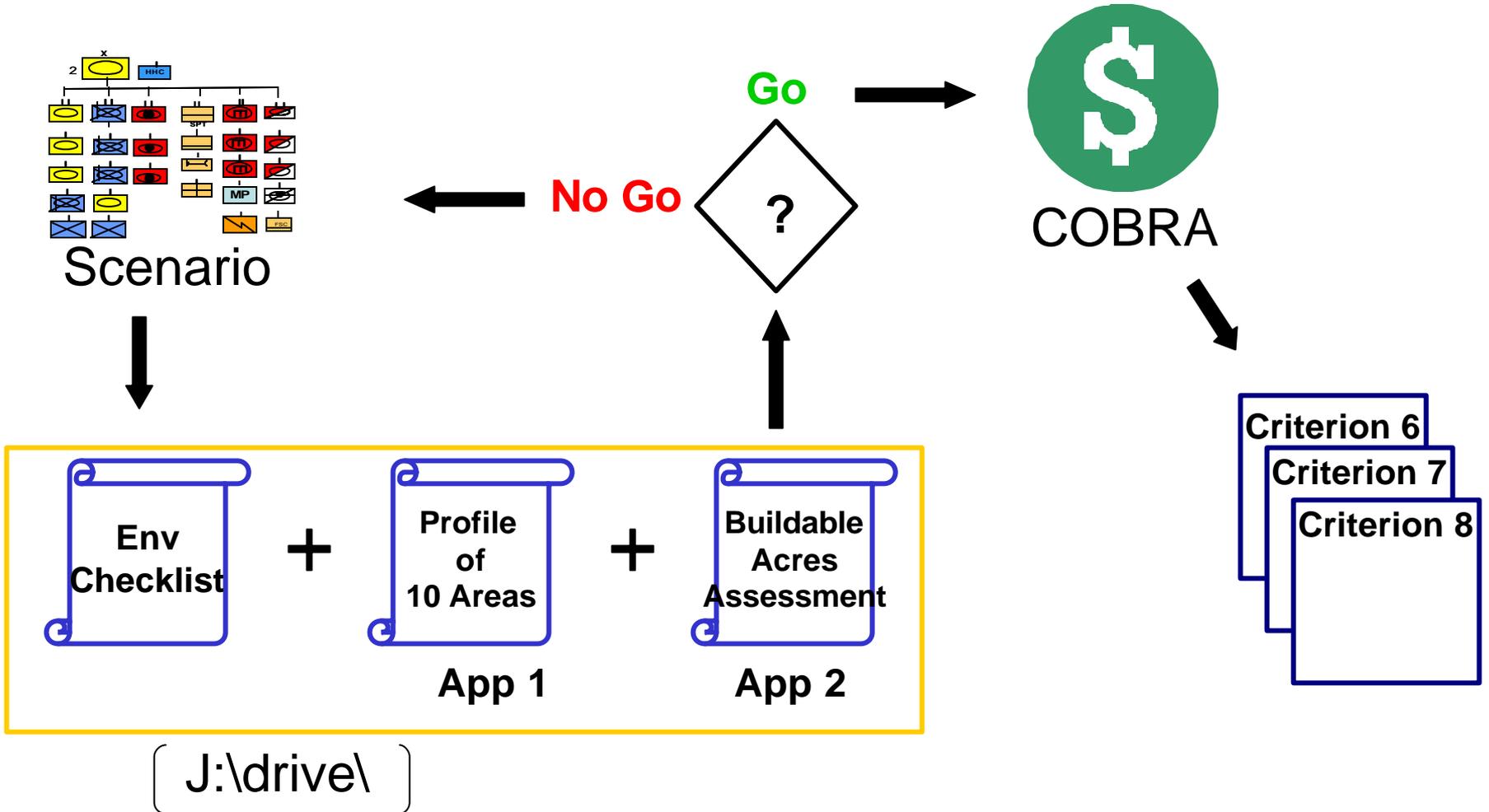
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	<input type="checkbox"/> Go <input type="checkbox"/> No Go	
Buildable Acres	<input checked="" type="checkbox"/> Go <input type="checkbox"/> No Go	Buildable Acres Required: <u>395.5</u> Buildable Acres Available: <u>2634</u>
Comments:		



Process Summary





PE

- Using the provided scenario, fill out TABS Analyst Environmental Checklist
 - Read Env Profile & note restrictions
 - Address any RED areas on checklist
 - Conduct Buildable Acres Assessment