

UNCLASSIFIED

UNDERGRADUATE FLYING TRAINING

OVERVIEW: The Undergraduate Flying Training category consists of bases which provide an extensive, specialized ground and flight training for Air Force pilots and navigators. Bases in this category are:

Columbus AFB, Mississippi
Reese AFB, Texas

Laughlin AFB, Texas
Vance AFB, Oklahoma

Randolph AFB, Texas

ATTRIBUTES: Important attributes of undergraduate flying training bases:

- Adequate Flight Training Areas
- Adequate runways (Length and Number)
- Minimal weather-associated flight cancellations
- Ground Training Facilities

SPECIAL ANALYSIS METHOD: Although the Undergraduate Flying Training subcategory analysis reflected the same method for Criteria II - VIII as the overall Air Force process, a tailored Criterion I analysis was developed for this subcategory. This tailored approach was necessary because of the DoD establishment of an Undergraduate Pilot Training Joint Cross Service Group (JCSG-UPT) to take advantage of available cross-service asset sharing opportunities. As chartered by OSD, the JCSGs were to develop guidelines, standards, assumptions, measures of merit, data elements and milestone schedules for DoD Component conduct of cross-service analyses of common support functions. In addition, the JCSGs were to develop closure or realignment alternatives and numerical excess capacity reduction targets.

As a result of this effort, and seeking to integrate the cross-service analysis into the Air Force process to the maximum extent possible, the Air Force decided to forego evaluation of the Undergraduate Flying Training activities for Criterion I grading. In addition to the data collected via the Air Force Questionnaire, the Air Force collected data on behalf of and under the direction of the JCSG-UPT relating to the functional capabilities of Undergraduate Flying Training activities. The Air Force decided to use the analytical results of the JCSG-UPT to measure the relative ability of the Undergraduate Flying Training activities to accomplish these functions.

The JCSG-UPT provided its calculations of the functional value of the Undergraduate Flying Training bases to the Air Force by function. Each base evaluated by the JCSG-UPT was given a rating from 1 to 10 in up to fifteen functional areas (e.g., Flight Screening, Primary Pilot, Airlift/Tanker, Intermediate & Advanced Strike, Bomber/Fighter, and Helicopter). Bases were not rated for a function if they did not participate in that training, such as Helicopter training, or if they failed to meet certain core requirements, such as proximity to open water.

To incorporate the functional values into a product useful in the Air Force analysis system, the Air Force discarded some functions as inappropriate for an Air Force-only analysis. After discarding these functions, scores remained for Primary Pilot, Airlift/Tanker, Maritime/E2C2, Bomber/Fighter, Primary/Intermediate Navigator/NFO, Panel Navigation, and Flight Screening. In addition, two bases received grades for the WSO Strike function. The sum of the values for all functions were then divided by the number of applicable functions, providing an average value. These values were then assigned color grades using the standard deviation scoring method. This color grade served as the Criterion I grade for the analysis.

UNCLASSIFIED

UNDERGRADUATE FLYING TRAINING

The Air Force was also tasked to provide a "military value" of undergraduate pilot training bases to the Joint Group. Because the Air Force does not produce a value based solely on the first four criteria, it forwarded the initial tiering of the bases within their respective categories. The following values were forwarded to the Undergraduate Pilot Training Joint Group:

<u>Base</u>	<u>Installation Tiering</u>
Columbus AFB	1
Laughlin AFB	1
Randolph AFB	1
Sheppard AFB	1
Vance AFB	1
Reese AFB	3

The Air Force was also directed to provide an analysis of various alternatives provided by the Joint Group. The Air Force provided an analysis of the alternatives, comparing them with the Air Force analysis, performed a functional feasibility review, and participated in COBRA analyses accomplished by the losing Service. The following alternatives were analyzed:

<u>Description of Alternative</u>	<u>COBRA Analysis</u> (One-time costs, NPV, ROI)	<u>Functional Assessment</u>
Close Reese AFB	\$148M, -\$239M, 6 years	Savings, reasonable risk, flexibility
Close Reese AFB and Vance AFB	\$196M, -\$667M, 4 years	Unacceptable risk resulting from excessive reduction of capacity
Close Reese AFB and Vance AFB, some aircraft go to Kingsville	\$259M, -\$593, 5 years	Unacceptable risk resulting from excessive reduction of capacity

The remaining criteria were determined in a manner consistent with the other categories of bases. All criteria were then reviewed prior to grouping by the BCEG using secret written ballot.

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UNDERGRADUATE FLYING TRAINING

CATEGORY DEPENDENT WEIGHTS:

I Mission Effectiveness				II Facilities Availability and Condition			VII Community	
I.1 thru I.3 EXCLUDED	N/A			II.1 Facilities Base	25%		VII.1 Off-base Housing	14%
I.4 Flying Training				II.2 Facilities Housing	10%		VII.2 Transportation	7%
I.5 thru I.7 EXCLUDED	N/A			II.3 Encroachment (Airfield)	25%		VII.3 Off-base Recreation	7%
				II.3.A Existing Assoc Airsp		15%	VII.4 Shopping Mall	7%
				II.3.B Future Assoc Airsp		15%	VII.5 Metro Center	7%
				II.3.C Existing Local Area		5%	VII.6 Local Area Crime Rate	14%
				II.3.D Future Local Area		5%	VII.7 Education	14%
				II.3.E Existing Local Comm		35%	VII.8 Employment Opportunities	14%
				II.3.F Future Local Comm		25%	VII.9 Local Medical Care	14%
				II.4 Air Quality	40%		VII.10 thru VII.14 EXCLUDED	N/A
				II.5 and II.6 EXCLUDED	N/A			

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UNDERGRADUATE FLYING TRAINING OVERALL

Base Name	<i>Flying Training Mission</i>	<i>Facilities and Infrastructure</i>	<i>Contingency and Mobility</i>	<i>Costs and Manpower Implications</i>	<i>Return on Investment</i>	<i>Economic Impact</i>	<i>Community</i>	<i>Environmental Impact</i>
Base Name	I,4	II	III	IV	V	VI	VII	VIII
Columbus AFB	Green	Green	Yellow	17/-333	1	2,661 (5.4%)	Yellow +	Yellow
Laughlin AFB	Yellow +	Green -	Yellow -	25/-275	2	3,368 (20.9%)	Yellow	Yellow +
Randolph AFB	Green -	Green -	Yellow	204/-59	13	13,863 (1.9%)*	Green -	Yellow -
Reese AFB	Red	Green -	Yellow -	15/-259	1	2,702 (2.0%)	Green -	Yellow
Vance AFB	Green	Green -	Yellow -	14/-254	1	3,028 (9.4%)	Green -	Yellow +

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UNDERGRADUATE FLYING TRAINING

I.4 FLYING TRAINING MISSION

	<i>Primary</i>	<i>Airlift Tanker</i>	<i>Maritime E2/C2</i>	<i>Bomber Fighter</i>	<i>Primary/Int Nav/NFO</i>	<i>WSO Strike</i>	<i>Panel Navigator</i>	<i>Flight Screen</i>	<i>Average Score</i>	<i>Overall</i>
Base Name	I.4.A	I.4.B	I.4.C	I.4.D	I.4.E	I.4.F	I.4.G	I.4.H		I.4
Columbus AFB	6.8	6.3	6.7	6.4	6.9	6.6	7.6	6.6	6.74	Green
Laughlin AFB	7.0	5.8	6.5	5.5	7.1		6.8	6.8	6.50	Yellow +
Randolph AFB	6.7	6.5	6.4	6.8	7.1	6.1	6.9	5.7	6.53	Green -
Reese AFB	6.0	5.9	5.9	5.6	6.2		7.2	6.2	6.14	Red
Vance AFB	6.8	6.7	6.7	5.5	6.8		7.5	6.6	6.67	Green

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II FACILITIES AVAILABILITY and CONDITION

Base Name	<i>Mission Support Facilities</i>	<i>On Base Housing</i>	<i>Airspace Encroachment</i>	<i>Air Quality</i>	<i>Overall</i>
Base Name	II.1	II.2	II.3	II.4	II
Columbus AFB	Green -	Yellow +	Green	Green	Green
Laughlin AFB	Yellow +	Green -	Green	Green	Green -
Randolph AFB	Yellow +	Red	Green -	Green	Green -
Reese AFB	Yellow	Green	Green	Green	Green -
Vance AFB	Yellow -	Green	Green	Green	Green -

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II.1 Mission Support Facilities

Base Name	II.1.A	II.1.B	II.1.C	II.1.D	II.1.E	II.1
Columbus AFB	Green	Yellow +	Green	Red	Green	Green -
Laughlin AFB	Green	Yellow -	Yellow -	Red	Green	Yellow +
Randolph AFB	Green	Green -	Red +	Red	Green	Yellow +
Reese AFB	Yellow	Yellow +	Yellow	Red	Green	Yellow
Vance AFB	Red	Yellow +	Yellow	Red	Green	Yellow -

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UNDERGRADUATE FLYING TRAINING

II.2 ON BASE HOUSING

Housing Capacity

Housing Condition

On Base Housing

Base Name	II.2.A	II.2.B	II.2
Columbus AFB	Green	Yellow	Yellow +
Laughlin AFB	Yellow	Green	Green -
Randolph AFB	Red	Red	Red
Reese AFB	Green	Green	Green
Vance AFB	Green	Green	Green

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UNDERGRADUATE FLYING TRAINING

II.3 AIRSPACE ENCROACHMENT

Base Name	Existing Associated Airspace II.3.A	Future Associated Airspace II.3.B	Existing Local Flying Area II.3.C	Future Local Flying Area II.3.D	Existing Local Community II.3.E	Future Local Community II.3.F	ENCROACHMENT II.3
Columbus AFB	Green	Green	Yellow	Yellow	Green	Green	Green
Laughlin AFB	Green	Green	Green	Green	Green	Green	Green
Randolph AFB	Green	Green	Green	Green	Yellow +	Yellow	Green -
Reese AFB	Green	Green	Green	Green	Green	Green	Green
Vance AFB	Green	Green	Green	Green	Green	Green	Green

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II.3.A EXISTING ASSOCIATED AIRSPACE

*MOAs and
Restricted Airspace*

*Low Level
Routes*

*Associated
Airspace*

Base Name	II.3.A.1	II.3.A.3	II.3.A
Columbus AFB	Green	Green	Green
Laughlin AFB	Green	Green	Green
Randolph AFB	Green	Green	Green
Reese AFB	Green	Green	Green
Vance AFB	Green	Green	Green

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II.3.B FUTURE ASSOCIATED AIRSPACE

*MOAs and
Restricted Airspace*

*Low Level
Routes*

*Associated
Airspace*

Base Name	II.3.B.1	II.3.B.3	II.3.B
Columbus AFB	Green	Green	Green
Laughlin AFB	Green	Green	Green
Randolph AFB	Green	Green	Green
Reese AFB	Green	Green	Green
Vance AFB	Green	Green	Green

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UNDERGRADUATE FLYING TRAINING

II.3.E EXISTING LOCAL COMMUNITY ENCROACHMENT

Base Name	<i>Clear Zone</i>	<i>Accident Potential Zone I</i>	<i>Accident Potential Zone II</i>	<i>Noise Contour 65-70 Ldn</i>	<i>Noise Contour 70-75 Ldn</i>	<i>Noise Contour 75-80 Ldn</i>	<i>Noise Contour 80 Ldn and above</i>	<i>Existing Local</i>
Base Name	II.3.E.1	II.3.E.2	II.3.E.3	II.3.E.4	II.3.E.5	II.3.E.6	II.3.E.7	II.3.E
Columbus AFB	Green	Green	Green	Green	Green	Green	Green	Green
Laughlin AFB	Green	Green	Green	Green	Green	Green	Green	Green
Randolph AFB	Green	Yellow	Green -	Yellow	Red	Yellow	Green	Yellow +
Reese AFB	Green	Green	Green -	Green	Green	Green	Green	Green
Vance AFB	Green	Green	Yellow	Green	Green	Green	Green	Green

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UNDERGRADUATE FLYING TRAINING

II.3.F FUTURE LOCAL COMMUNITY ENCROACHMENT

Base Name	Clear Zone	Accident Potential Zone I	Accident Potential Zone II	Noise Contour 65-70 Ldn	Noise Contour 70-75 Ldn	Noise Contour 75-80 Ldn	Noise Contour 80 Ldn and above	Future Local
Base Name	II.3.F.1	II.3.F.2	II.3.F.3	II.3.F.4	II.3.F.5	II.3.F.6	II.3.F.7	II.3.F
Columbus AFB	Green	Green	Green	Green	Green	Green	Green	Green
Laughlin AFB	Green	Green	Green	Green	Green	Green	Green	Green
Randolph AFB	Green	Yellow	Yellow	Red	Red	Red	Green	Yellow
Reese AFB	Green	Green	Green -	Green	Green	Green	Green	Green
Vance AFB	Green	Green	Yellow	Green	Green	Green	Green	Green

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II.4 AIR QUALITY

*Attainment
Status* *Restrictions* *Future Growth* *Air Quality*

Base Name	II.4.A	II.4.B	II.4.C	II.4
Columbus AFB	Green	Green	Green	Green
Laughlin AFB	Green	Green	Green	Green
Randolph AFB	Green	Green	Green	Green
Reese AFB	Green	Green	Green	Green
Vance AFB	Green	Green	Green	Green

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UNDERGRADUATE FLYING TRAINING

III CONTINGENCY, MOBILITY, and DEPLOYMENT REQUIREMENTS

Base Name	III.1	III.2	III.3	III.4	III.5	III.6	III.7	III
Columbus AFB	Red	Green	Green	Red	Yellow	Green	Yellow +	Yellow
Laughlin AFB	Red	Green	Red	Red	Red	Green	Yellow +	Yellow -
Randolph AFB	Yellow	Green	Red	Red	Yellow	Red	Yellow +	Yellow
Reese AFB	Red	Green	Red	Red	Red	Green	Yellow -	Yellow -
Vance AFB	Red	Green	Red	Red	Red	Red	Yellow +	Yellow -

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UNDERGRADUATE FLYING TRAINING

III.7 GEOGRAPHIC LOCATION

*Ground Force
Installation*

Rail Access

Port Facility

*Geographic
Location*

Base Name	III.7.A	III.7.B	III.7.C	III.7
Columbus AFB	Green	Green	Red	Yellow +
Laughlin AFB	Green	Green	Red	Yellow +
Randolph AFB	Green	Green	Red	Yellow +
Reese AFB	Red	Green	Red	Yellow -
Vance AFB	Green	Green	Red	Yellow +

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IV/V Cost and Manpower Implications/Return on Investment

Base Name	<i>One Time Costs (Closing)</i>	<i>20 Year Net Present Value</i>	<i>Steady State Savings</i>	<i>Manpower Savings</i>	<i>Return On Investment</i>
	IV.1	IV.2			V
Columbus AFB	17	-333	26	284	1
Laughlin AFB	25	-275	22	383	2
Randolph AFB	204	-59	19	844	13
Reese AFB	15	-259	20	183	1
Vance AFB	14	-254	20	89	1

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UNDERGRADUATE FLYING TRAINING

VI Economic Impact

Base Name	<i>Economic Area Employment (93)</i>	<i>Direct Job Loss (Current BRAC)</i>	<i>Indirect Job Loss (Current BRAC)</i>	<i>Previous Job Loss (Prior BRACs)</i>	<i>Total Job Loss (Current BRAC)</i>	<i>Percent Job Loss (Current BRAC)</i>	<i>Cumulative Loss (All BRACs)</i>	<i>Percent Job Loss (All BRACs)</i>
Columbus AFB	48,953	1,968	693	-	2,661	5.4%	-	-
Laughlin AFB	16,109	2,459	909	-	3,368	20.9%	-	-
Randolph AFB	730,857	8,915	5,077	-129	13,992	1.9%	13,863	1.9%
Reese AFB	132,010	1,943	759	-	2,702	2.0%	-	-
Vance AFB	32,341	2,203	825	-	3,028	9.4%	-	-

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VI Economic Impact - Community Statistics

Base Name	Economic Statistical Area	Population (1992 Census)	Per Capita Income (1991)	1984-1991 Average Income Increase
Columbus AFB	Lowdes-Monroe Counties, MS MSA	96,000	\$14,076	5.4%
Laughlin AFB	Val Verde County, TX	40,000	\$11,167	5.1%
Randolph AFB	San Antonio, TX MSA	1,377,000	\$17,284	4.6%
Reese AFB	Lubbock, TX MSA	224,000	\$17,185	4.9%
Vance AFB	Enid, OK MSA	56,000	\$17,398	3.7%

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VI Economic Impact - Unemployment Statistics

Base Name	Economic Statistical Area	Unemployment (10 Year Average)	Unemployment (3 Year Average)	Unemployment (1993)
Columbus AFB	Lowdes-Monroe Counties, MS MSA	8.1%	7.7%	6.0%
Laughlin AFB	Val Verde County, TX	14.2%	11.8%	10.7%
Randolph AFB	San Antonio, TX MSA	6.7%	6.2%	5.6%
Reese AFB	Lubbock, TX MSA	5.7%	5.8%	5.2%
Vance AFB	Enid, OK MSA	5.6%	4.4%	4.1%

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VII COMMUNITY

Base Name	<i>Off-Base Housing</i> VII.1	<i>Transportation</i> VII.2	<i>Off-Base Recreation</i> VII.3	<i>Shopping Mall</i> VII.4	<i>Metro Center</i> VII.5	<i>Local Area Crime Rate</i> VII.6	<i>Education</i> VII.7	<i>Employment Opportunities</i> VII.8	<i>Local Medical Care</i> VII.9	<i>Overall</i> VII
Columbus AFB	Green	Green -	Yellow +	Green	Red	Green -	Green -	Yellow	Red	Yellow +
Laughlin AFB	Green -	Green -	Yellow	Green	Red	Yellow -	Green -	Yellow	Red	Yellow
Randolph AFB	Yellow	Green	Green -	Green	Green	Yellow -	Green	Green	Yellow	Green -
Reese AFB	Yellow	Green -	Yellow +	Green	Green	Yellow -	Green -	Green	Green	Green -
Vance AFB	Green	Green -	Yellow +	Green	Yellow	Yellow -	Green	Green	Yellow	Green -

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VII.1 OFF-BASE HOUSING

Affordable

Suitable

Off-Base Housing

Base Name	VII.1.A	VII.1.B	VII.1
Columbus AFB	Green	Green	Green
Laughlin AFB	Green	Yellow	Green -
Randolph AFB	Yellow	Yellow	Yellow
Reese AFB	Yellow	Yellow	Yellow
Vance AFB	Green	Green	Green

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VII.2 TRANSPORTATION

Base Name	VII.2.A	VII.2.B	VII.2.C	VII.2.D	VII.2
Columbus AFB	Red	Green	Green	Green	Green -
Laughlin AFB	Green	Red	Green	Green	Green -
Randolph AFB	Green	Green	Green	Green	Green
Reese AFB	Red	Green	Green	Green	Green -
Vance AFB	Green	Green	Red	Green	Green -

*Public
Transportation*

*Municipal Airport
Proximity*

*Municipal Airport
Carriers*

*Commute Time
to Work*

Transportation

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VII.3 OFF-BASE RECREATION

Swimming Pool *Movie Theater* *Public Golf Course* *Bowling Lane* *Boating* *Fishing* *Zoo*

Base Name	VII.3.A	VII.3.B	VII.3.C	VII.3.D	VII.3.E	VII.3.F	VII.3.G
Columbus AFB	Yellow	Green	Yellow	Green	Green	Green	Yellow
Laughlin AFB	Green	Green	Green	Green	Green	Green	Red
Randolph AFB	Green	Green	Yellow	Green	Green	Green	Green
Reese AFB	Green	Green	Green	Green	Yellow	Yellow	Yellow
Vance AFB	Green	Green	Green	Green	Yellow	Green	Yellow

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UNDERGRADUATE FLYING TRAINING VII.3 OFF-BASE RECREATION (Cont.)

Base Name	VII.3.H	VII.3.I	VII.3.J	VII.3.K	VII.3.L	VII.3.M	VII.3.N	VII.3
Columbus AFB	Red	Red	Red	Green	Green	Green	Red	Yellow +
Laughlin AFB	Red	Green	Red	Red	Green	Red	Red	Yellow
Randolph AFB	Green	Green	Green	Green	Green	Green	Red	Green -
Reese AFB	Red	Green	Red	Green	Green	Green	Red	Yellow +
Vance AFB	Yellow	Yellow	Red	Green	Green	Green	Red	Yellow +

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UNDERGRADUATE FLYING TRAINING
VII.6 LOCAL AREA CRIME RATE

*Violent Crime
Rate*

*Property Crime
Rate*

*Local Area
Crime Rate*

Base Name	VII.6.A	VII.6.B	VII.6
Columbus AFB	Green	Yellow	Green -
Laughlin AFB	Yellow	Red	Yellow -
Randolph AFB	Yellow	Red	Yellow -
Reese AFB	Yellow	Red	Yellow -
Vance AFB	Yellow	Red	Yellow -

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VII.7 EDUCATION

Pupil Teacher Ratio *Four Year Programs* *Honors Programs* *College Attendance* *Off-base Education* *Education*

Base Name	VII.7.A	VII.7.B	VII.7.C	VII.7.D	VII.7.E	VII.7
Columbus AFB	Yellow	Green	Green	Yellow	Green -	Green -
Laughlin AFB	Yellow	Green	Green	Yellow	Green	Green -
Randolph AFB	Green	Green	Green	Yellow	Green	Green
Reese AFB	Red	Green	Green	Green	Green	Green -
Vance AFB	Green	Green	Green	Yellow	Green	Green

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VII.7.E OFF-BASE EDUCATION

*Vocational /
Tech College* *Undergraduate
College* *Graduate
College* *Off-Base
Education*

Base Name	VII.7.E.1	VII.7.E.2	VII.7.E.3	VII.7.E
Columbus AFB	Green	Green	Red	Green -
Laughlin AFB	Green	Green	Green	Green
Randolph AFB	Green	Green	Green	Green
Reese AFB	Green	Green	Green	Green
Vance AFB	Green	Green	Green	Green

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UNDERGRADUATE FLYING TRAINING
VII.9 LOCAL MEDICAL CARE

Physicians *Hospital Beds* *Local Medical Care*

Base Name	VII.9.A	VII.9.B	VII.9
Columbus AFB	Red	Red	Red
Laughlin AFB	Red	Red	Red
Randolph AFB	Red	Green	Yellow
Reese AFB	Green	Green	Green
Vance AFB	Red	Green	Yellow

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UNDERGRADUATE FLYING TRAINING

VIII ENVIRONMENTAL IMPACT

Base Name	Water	Asbestos	Biological	Cultural	Installation Restoration Program	Overall
Base Name	VIII.1	VIII.2	VIII.3	VIII.4	VIII.5	VIII
Columbus AFB	Yellow	Red	Yellow	Green	Yellow	Yellow
Laughlin AFB	Green	Red	Yellow	Yellow	Yellow	Yellow +
Randolph AFB	Red	Red	Green	Yellow	Red	Yellow -
Reese AFB	Yellow	Green	Yellow -	Green	Red	Yellow
Vance AFB	Green	Red	Yellow +	Yellow	Yellow	Yellow +

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VIII.3 BIOLOGICAL

Habitat *Threatened and Endangered Species* *Wetlands* *Floodplains* *Biological*

Base Name	VIII.3.A	VIII.3.B	VIII.3.C	VIII.3.D	VIII.3
Columbus AFB	Green	Yellow	Yellow	Yellow	Yellow
Laughlin AFB	Green	Yellow	Yellow	Yellow	Yellow
Randolph AFB	Green	Green	Green	Green	Green
Reese AFB	Green	Green	Red	Red	Yellow -
Vance AFB	Yellow	Green	Yellow	Green	Yellow +

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UNDERGRADUATE FLYING TRAINING ANALYSIS RESULTS at TIERING (18 Oct)

The following grades and data reflect the information on which the BCEG members based their tiering determination. Information in this chart was updated as the result of a number of factors between initial tiering and final recommendations.

	<i>Mission (Flying) Requirements</i>	<i>Facilities and Infrastructure</i>	<i>Contingency and Mobility</i>	<i>Costs and Manpower Implications</i>	<i>Return on Investment</i>	<i>Economic Impact</i>	<i>Community</i>	<i>Environmental Impact</i>
Base Name	I.1	II	III	IV	V	VI	VII	VIII
Columbus AFB	Green	Green	Yellow	17/-333	1	3,423 (8.4%)	Yellow +	Yellow
Laughlin AFB	Yellow +	Green -	Yellow -	25/-275	2	4,115 (27.1%)	Yellow	Yellow +
Randolph AFB	Green -	Green -	Yellow	204/-59	13	12,579 (2.0%)	Green -	Yellow -
Reese AFB	Red	Green -	Yellow -	15/-259	1	3,446 (3.1%)	Green -	Yellow
Vance AFB	Green	Green -	Yellow -	14/-254	1	3,040 (11.6%)	Green -	Yellow +

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UNDERGRADUATE FLYING TRAINING TIERING OF BASES

As an intermediate step in the Air Force Process, the BCEG members established the following tiering of bases based on the relative merit of bases within the subcategory as measured using the eight selection criteria. Tier I represents the highest relative merit,

TIER I

Columbus AFB
Laughlin AFB
Randolph AFB
Vance AFB

TIER III

Reese AFB

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