

# U.S. Aerospace and Aviation Industry: A State-by-State Analysis



Commission on the Future of the United States Aerospace Industry

October 2002



# FOREWORD

President George W. Bush and the Congress created the Commission on the Future of the United States Aerospace Industry to evaluate the current and future health of the industry as well as the challenges that lie ahead for the U.S. workforce and the economy.

To accomplish our mission, we commissioned a study on the economic impact of the aerospace industry nationally and on a state-by-state basis, using the best available U.S. government data. This study sought to define the core of the aerospace industry. The resulting data represents that very core — those jobs specifically tied to commercial and civilian aerospace.

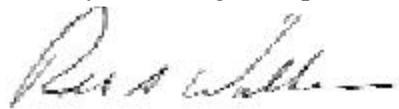
U.S. Aerospace and Aviation: A State-by-State Analysis examines the civilian and commercial aerospace and aviation industry by employment, wages, payroll, and establishments. The report found that the U.S. civilian and commercial aerospace and aviation industry employed over 2 million workers in 2001. These employees earned an annual average wage of \$47,700.

While the figures provided by the government are the latest official data, they do not reflect the significant downturn of the industry since September 11, 2001. Since then, the industry has experienced a serious decline, negatively affecting people's lives and the national economy.

The significance of our analysis lies in the illustration of the importance of the aerospace and aviation industry to the economic health of every state economy. California, Texas, and Washington lead by most aerospace and aviation industry metrics. At the same time, the report demonstrates that states like Alabama, Arizona, Georgia, and Kansas are home to strong aerospace and aviation industry clusters – a fact some may find surprising.

It should be stressed that these numbers represent the core of the industry. The economic impact of the industry begins with this core but does not end there. The study does not measure the additional jobs generated by the aerospace industry in our states and localities. For example, the contractors that provide security guards or food service workers to NASA Centers are not included. This analysis does include military suppliers, but does not include military facilities such as U.S. Air Force bases. Those jobs, however, are vital parts of our economy but are dependent on the very existence of the U.S. aerospace industry. Without the aerospace industry core, the other jobs would cease to exist and the U.S. economy would suffer for that loss.

A strong aerospace industry will enable the United States to defend itself, compete in the global marketplace, maintain a highly skilled workforce, and provide all Americans with the ability to travel safely and securely anywhere in the world. The Commission hopes that this report will allow policymakers, the public, and the media to fully comprehend the economic stakes at hand, as the U.S. commercial and civilian aerospace industry faces the challenges of market forces, homeland security and foreign competition.



Robert S. Walker

Chairman

Commission on the Future of the U.S. Aerospace Industry

# THE COMMISSION ON THE FUTURE OF THE U.S. AEROSPACE INDUSTRY

The Commission on the Future of the United States Aerospace Industry was established by Section 1092 of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001, Public Law 106-398. The Commission was formed to study the future of the United States aerospace industry in the global economy, particularly in relationship to United States national security, and to assess the future importance of the domestic aerospace industry for the economic and national security of the United States. The Commission will prepare and issue a final report to the President and Congress no later than November 27, 2002.

## MISSION STATEMENT

The Commission shall develop and recommend a series of public policy reforms which will permit the U.S. aerospace industry to create superior technology, excel in the global marketplace, profit from investments in human and financial capital, benefit from coordinated and integrated government decision-making, assure our national security, access modern infrastructure, and give the United States a capacity throughout the 21st Century to reach for the stars.

## COMMISSION MANDATE

The Commission was given a broad mandate by the Congress to study:

- The adequacy of projected budgets of the federal departments and agencies for aerospace research and development and procurement;
- The adequacy of the current acquisition process of federal departments and agencies;
- The procedures for developing and fielding aerospace systems incorporating new technology in a timely fashion;
- The policies, procedures, and methods for the financing and payment of government contracts;
- Statutes and regulations governing international trade and the export of technology;
- Policies governing taxation, particularly with a view of assessing the impact of current tax laws and practices on the international competitiveness of the aerospace industry;
- Programs for the maintenance of the national space launch infrastructure; and
- Programs for the support of science and engineering education.

# OVERVIEW

U.S. AEROSPACE AND AVIATION INDUSTRY: A STATE-BY-STATE ANALYSIS  
Is Produced by  
THE COMMISSION ON THE FUTURE OF THE UNITED STATES AEROSPACE INDUSTRY

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# TABLE OF CONTENTS

INTRODUCTION	5
.....	
U.S. KEY FINDINGS	6
.....	
STATE KEY FINDINGS	8
.....	
INDUSTRY SEGMENTS KEY FINDINGS	10
.....	
TOP STATES	11
.....	
UNITED STATES OVERVIEW	13
.....	
STATE OVERVIEWS	14
.....	
STATE APPENDICES	66
.....	
METRO KEY FINDINGS	86
.....	
METRO APPENDICES	100
.....	
DEFINITION OF THE AEROSPACE AND AVIATION	108
.....	
METHODOLOGY	109
.....	



# INTRODUCTION

This study, *U.S. Aerospace and Aviation Industry: A State-by-State Analysis*, provides policymakers, industry leaders, the press, and others with objective, comparative economic data on the core civilian and commercial aerospace and aviation industry in the United States. The report examines the industry by direct employment, wages, establishments, and payroll.

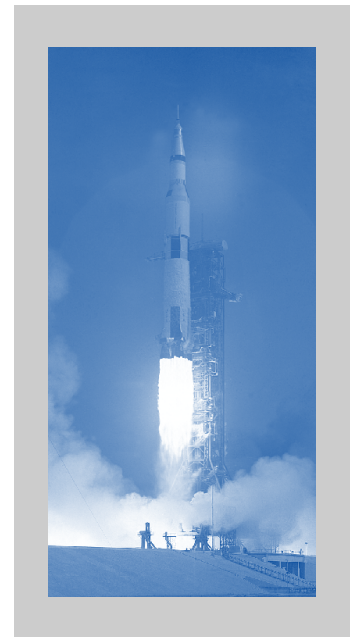
The first section of the report provides an overview of the key findings from a national and state perspective. The second section consists of aerospace and aviation industry profiles for the United States and each state, the District of Columbia, and Puerto Rico. The next section gives detailed appendices providing statistical data since 1996. Aerospace and aviation industry segment data and state rankings also are provided. Finally, the report includes findings for the 10 leading metropolitan areas.

The statistics used in this report are based on the most recently available U.S. government data from the Bureau of Labor Statistics (BLS). The aerospace and aviation industry definition used to generate the metrics in this report include: aircraft and parts manufacturing; guided missiles and space vehicles; search, detection, and navigation; and air transportation. Other industry segments covered are satellite communications and space research and technology. Civilians working for NASA and its space and research centers such as Ames Research Center in California, Glenn Research Center in Ohio, and the Kennedy Space Center in Florida are included in this analysis under space research and technology.

The data contained in this report represent core aerospace and aviation industry employment, wages, payroll, and establishments. Only those industries that directly create aerospace and aviation products and services are captured in this study. It does not include the hundreds of thousands of indirect jobs that exist to support the aerospace and aviation industry.

Due to the limitations of the Standard Industrial Classification (SIC) system, this report is not able to quantify those components of the military that are engaged in aerospace and aviation-related activities. The SIC system classifies all armed forces establishments together. Consequently, this report only examines the civilian and commercial components of the aerospace and aviation industry.

The specific SIC codes used to define the industry are provided at the end of the report. The North American Industrial Classification System (NAICS) codes for the aerospace and aviation industry also are provided, although NAICS-based government statistics are not yet available for employment, wages, payroll, and establishments.



# U.S. KEY FINDINGS

*U.S. Aerospace and Aviation Industry: A State-by-State Analysis* measures the economic importance of the U.S. civilian and commercial aerospace and aviation industry. Employment statistics show that the industry added jobs every year between 1996 and 1999. However, aerospace and aviation industry employment began to shrink in 2000, losing some 26,000 jobs between 1999 and 2001.

## U.S. EMPLOYMENT

- ◆ The U.S. aerospace and aviation industry employed 2 million workers in 2001.
- ◆ U.S. aerospace and aviation employment grew by 138,200 jobs between 1996 and 2001.
- ◆ Nearly all of this growth was concentrated in the air transportation industry, which includes passenger air services, air cargo services, courier services, and airport services.
- ◆ Air transportation services employment grew to 1.3 million in 2001, an increase of 163,400 workers since 1996.
- ◆ Many aerospace and aviation industry segments lost jobs between 1996 and 2001, including:
  - search, detection, navigation, and aeronautical manufacturing (-9,000);
  - guided missiles and space manufacturing (-8,600);
  - satellite communications services (-3,900); and
  - space research and technology (-3,000).
- ◆ Aircraft and parts manufacturing industry employment in 2001 was nearly unchanged from 1996. After reaching a high of 530,000 workers in 1998, the industry shed 67,000 jobs for a total of 462,000 workers in 2001.
- ◆ The aerospace and aviation industry employed 15.6 out of every 1,000 workers in 2001, down from a high of 16.4 in 1998.



## U.S. WAGES

- ◆ U.S. aerospace and aviation industry employees earned an annual average wage of \$47,700 in 2000.
- ◆ Aerospace and aviation industry wages were 35 percent higher than the U.S. annual average wage of \$35,300 in 2000. This is down from a 43 percent wage differential in 1996.
- ◆ Aerospace and aviation wages grew by only five percent between 1996 and 2000, compared with a growth rate of 11 percent for U.S. total wages.
- ◆ The best paid aerospace and aviation workers were employed in the guided missiles and space vehicles industry (\$66,500), satellite communications (\$66,100), and search and navigation (\$65,100) in 2000.

# U.S. KEY FINDINGS

## U.S. PAYROLL

- ◆ U.S. aerospace and aviation payroll reached \$98 billion in 2000, up from \$86 billion in 1996, adjusted for inflation to 2000 dollars.
- ◆ Payroll in the U.S. aerospace and aviation industry grew by 14 percent between 1996 and 2001. This was slower than the total U.S. payroll, which grew by 22 percent during the same period, adjusted for inflation.

## U.S. ESTABLISHMENTS

- ◆ Establishments in the aerospace and aviation industry reached 21,900 in 2000, up from 20,300 in 1996.



## OVERVIEW OF THE U.S. AEROSPACE AND AVIATION INDUSTRY

	1996	1997	1998	1999	2000	2001
Employment	1,896,000	1,956,000	2,041,000	2,061,000	2,058,000	2,035,000
Wages	\$45,500	\$46,700	\$47,200	\$48,100	\$47,700	NA
Payroll	\$86.2b	\$91.3b	\$96.4b	\$99.2b	\$98.1b	NA
Establishments	20,300	20,700	21,400	21,700	21,900	NA

2001 employment data are preliminary.  
2000 wage, payroll, and establishment data are the most recent available.  
Wage and payroll data are adjusted for inflation to 2000 dollars.  
Source: U.S. Bureau of Labor Statistics

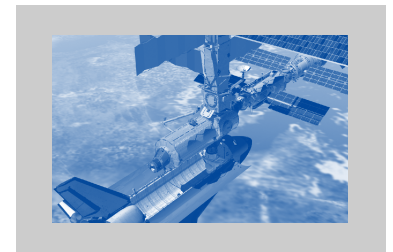


# STATE KEY FINDINGS

*U.S. Aerospace and Aviation Industry: A State-by-State Analysis* provides statistics on civilian and commercial aerospace and aviation employment, wages, payroll, and establishments for all 50 states, the District of Columbia, and Puerto Rico. Not surprisingly, California led the nation by aerospace and aviation industry employment, payroll, and establishments.

## STATE EMPLOYMENT

- ◆ California led the nation in aerospace and aviation industry employment in 2001, with 293,700 employees.
- ◆ Texas ranked second with 184,200 employees in 2001, up from 168,600 in 1996.
- ◆ Washington, Florida, and New York rounded out the top five states by aerospace and aviation industry employment in 2001.
- ◆ Texas ranked first in aerospace and aviation job creation between 1996 and 2001, adding 15,600 jobs to its economic base.
- ◆ Illinois and Arizona were the second and third fastest growing aerospace and aviation industry states between 1996 and 2001, adding 12,500 and 12,100 jobs, respectively.
- ◆ California's aerospace and aviation industry lost the greatest number of jobs between 1996 and 2001, down by 14,400 jobs.
- ◆ Missouri followed California, losing 8,100 aerospace and aviation jobs during the same period.
- ◆ When controlling for population size, Washington led the nation with 44 aerospace and aviation jobs per 1,000 workers in 2001. Kansas ranked second with 43 aerospace and aviation jobs per 1,000 workers.



## STATE WAGES

- ◆ The District of Columbia led the nation in aerospace and aviation industry wages with its 1,100 workers earning an annual average wage of \$64,600 in 2000.
- ◆ Connecticut and Washington ranked second and third nationwide with average wages of \$61,000 and \$57,100, respectively, in 2000. Both of these states have large and vibrant aerospace and aviation industries with numerous employees.
- ◆ Employees in the aerospace and aviation industry in Kansas earned an average wage of \$47,400, 62 percent more than the \$29,400 average statewide wage, the highest wage differential in the country.
- ◆ Aerospace and aviation industry wages were 59 percent higher in Kentucky and 54 percent higher in Washington than average state wages in 2000.

# STATE KEY FINDINGS

## STATE PAYROLL

- ◆ California, Texas, and Washington led the nation in aerospace and aviation payroll in 2000.
- ◆ Texas was the only state to see its aerospace and aviation payroll increase by more than \$1 billion between 1996 and 2000.

## STATE ESTABLISHMENTS

- ◆ California was the nation's leading state by aerospace and aviation establishments in 2000, with more than 2,800 separate establishments.
- ◆ Texas, Florida, and New York followed California, each with more than 1,200 aerospace and aviation establishments in 2000.



## A SNAPSHOT OF SELECT STATES AND THE AEROSPACE AND AVIATION INDUSTRY

Ranked by Employment	2001 Employment	2000 Wages	2000 Payroll	2000 Establishments
1. California	294,000	\$53,900	\$16.1b	2,800
2. Texas	184,200	\$48,300	\$9.0b	1,700
3. Washington	117,600	\$57,100	\$6.7b	700
4. Florida	114,300	\$41,400	\$4.8b	1,600
5. New York	97,100	\$44,600	\$4.4b	1,200

2001 employment data are preliminary.  
2000 wage, payroll, and establishment data are the most recent available.  
Source: U.S. Bureau of Labor Statistics

# INDUSTRY SEGMENTS KEY FINDINGS

The civilian and commercial aerospace and aviation industry definition used in this study covers six major industry segments: aircraft and parts; guided missiles; search, detection, and navigation; air transportation; satellite communications; and space research. An examination of 2001 employment data for these sectors shows that the vast majority of the 2 million jobs were concentrated in the air transportation industry. Last year, 1.3 million people were employed by this sector, comprising nearly two-thirds of all aerospace industry employees. Wages in this sector were also the lowest at \$40,600 in 2000.

Aircraft and parts manufacturing was the second largest aerospace sector by jobs, employing over 460,000 workers in 2001 earning \$57,200. The search, detection, and navigation manufacturing sector employed more than 150,000 workers in 2001, earning \$65,100 on average. The other three sectors employed fewer than 100,000 industry workers each.

This page also shows the top five states by jobs for each of the six sectors. Similar aerospace businesses often cluster together to take advantage of shared resources. California was the leading state in four out of six of the industry segments.

Washington was the leading state by aircraft and parts manufacturing with Boeing at the core of this state's aircraft manufacturing industry. After Washington and California, Kansas ranks third in this segment with nearly 50,000 jobs. This technology-intensive manufacturing industry is critical to these states' economies.

Texas, home to the Johnson Space Center, led in space research industry employment, followed by Maryland and Virginia. Alabama ranked fourth with some 2,600 space research employees, working at such locations as Marshall Space Flight Center in Huntsville.

## **AIRCRAFT & PARTS MFG.**

Employment . . . . . 462,200  
Wages . . . . . \$57,200

### **TOP 5 STATES BY EMPLOYMENT**

1. Washington	87,000
2. California	70,200
3. Kansas	47,900
4. Texas	42,300
5. Connecticut	34,500

## **GUIDED MISSILES MFG.**

Employment . . . . . 83,000  
Wages . . . . . \$66,500

### **TOP 5 STATES BY EMPLOYMENT**

1. California	20,600
2. Arizona	10,800
3. Massachusetts	8,800
4. Florida	8,400
5. Colorado	6,500

## **SEARCH, DETECTION MFG.**

Employment . . . . . 151,100  
Wages . . . . . \$65,100

### **TOP 5 STATES BY EMPLOYMENT**

1. California	48,100
2. New York	10,300
3. Maryland	9,800
4. New Jersey	8,800
5. Florida	8,500

## **AIR TRANSPORTATION**

Employment . . . . . 1,302,900  
Wages . . . . . \$40,600

### **TOP 5 STATES BY EMPLOYMENT**

1. California	148,600
2. Texas	128,600
3. Illinois	82,200
4. Florida	79,100
5. New York	78,900

## **SATELLITE COMM.**

Employment . . . . . 18,000  
Wages . . . . . \$66,100

### **TOP 5 STATES BY EMPLOYMENT**

1. California	3,900
2. Florida	1,900
3. Maryland	1,800
4. Texas	1,700
5. New York	1,200

## **SPACE RESEARCH**

Employment . . . . . 17,400  
Wages . . . . . \$64,900

### **TOP 5 STATES BY EMPLOYMENT**

1. Texas	3,000
2. Maryland	2,900
3. Virginia	2,600
4. Alabama	2,600
5. California	2,200

# TOP STATES

## AEROSPACE AND AVIATION EMPLOYMENT BY STATE 2001

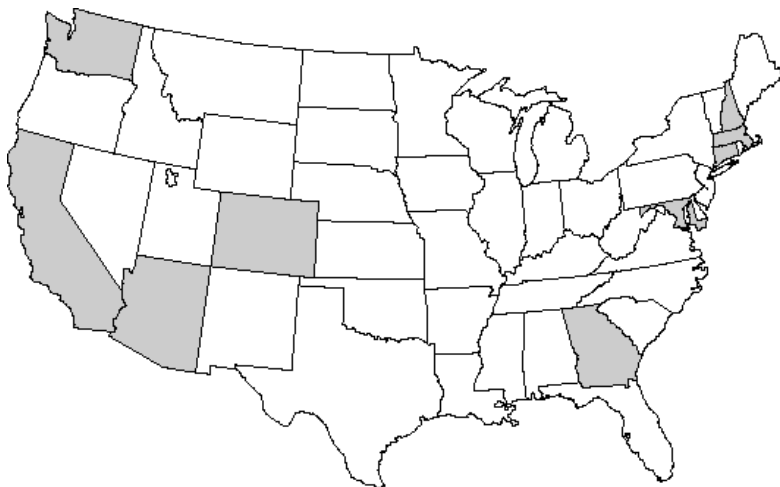


Top 10 States by  
Employment

### TOP 10 STATES BY EMPLOYMENT

1. California	293,700
2. Texas	184,200
3. Washington	117,600
4. Florida	114,300
5. New York	97,100
6. Illinois	88,700
7. Georgia	83,000
8. Arizona	69,000
9. Pennsylvania	65,200
10. Ohio	62,500

## AEROSPACE AND AVIATION WAGES BY GEOGRAPHY 2000



Top 10 geographical  
areas by Wages

### TOP 10 GEOGRAPHICAL AREAS BY WAGES

1. District of Columbia.	\$64,600
2. Connecticut	\$61,000
3. Washington	\$57,100
4. Maryland	\$55,200
5. California	\$53,900
6. New Hampshire	\$52,700
7. Georgia	\$52,400
8. Massachusetts	\$49,800
9. Arizona	\$49,600
10. Colorado	\$48,500

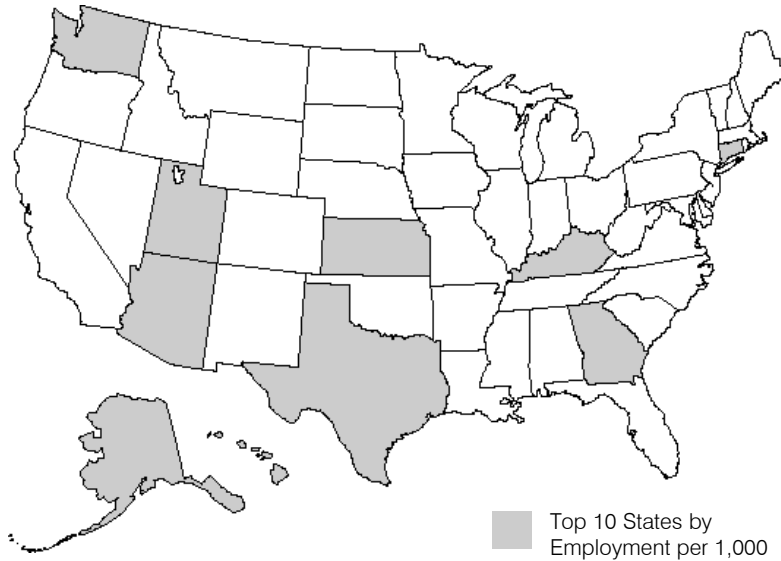
Note: 2001 employment data are preliminary. Wage data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.

Source: U.S. Bureau of Labor Statistics



# TOP STATES

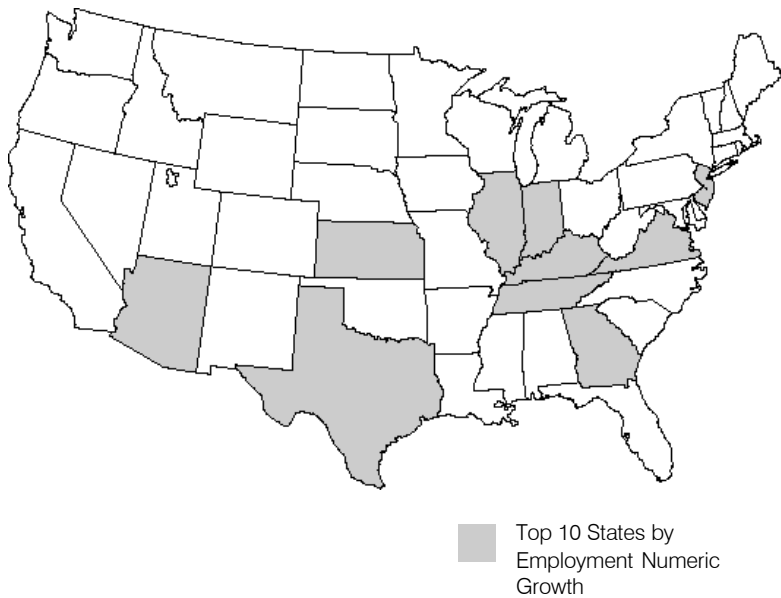
## AEROSPACE AND AVIATION EMPLOYMENT BY STATE BY EMPLOYMENT PER 1,000 WORKERS 2001



### TOP 10 STATES BY EMPLOYMENT PER 1,000 WORKERS

1.	Washington	43.7
2.	Kansas	43.3
3.	Alaska	35.3
4.	Arizona	30.7
5.	Connecticut	27.5
6.	Hawaii	24.2
7.	Utah	22.3
8.	Georgia	21.3
9.	Kentucky	20.6
10.	Texas	19.7

## AEROSPACE AND AVIATION EMPLOYMENT GROWTH BY STATE BY NUMERIC GROWTH 1996-2001



### TOP 10 STATES BY EMPLOYMENT GROWTH

1.	Texas	+15,600
2.	Illinois	+12,500
3.	Arizona	+12,100
4.	Kansas	+11,600
5.	Georgia	+11,000
6.	New Jersey	+9,100
7.	Virginia	+8,600
8.	Indiana	+8,000
9.	Kentucky	+6,700
10.	Tennessee	+6,000

# UNITED STATES 2001

## A SNAPSHOT OF UNITED STATES' AEROSPACE & AVIATION INDUSTRY

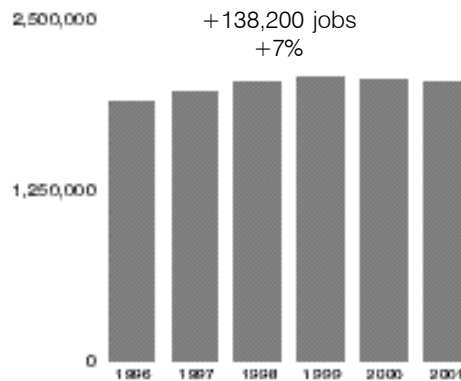


### EMPLOYMENT

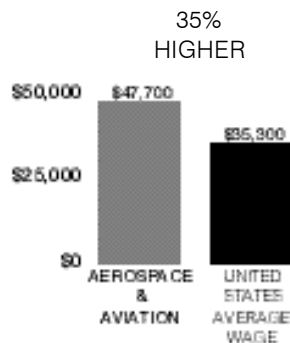
<b>EMPLOYMENT</b>	<b>2,034,587</b>
<b>JOBS PER 1,000 WORKERS</b>	<b>15.6</b>
<b>ESTABLISHMENTS</b>	<b>21,852</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	1,302,900
2. AIRCRAFT AND PARTS MANUFACTURING	462,200
3. GUIDED MISSILES AND SPACE MFG.	151,100



### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$47,673</b>
<b>U.S. AVERAGE WAGE</b>	<b>\$35,296</b>
WAGE DIFFERENTIAL	35%
<b>PAYROLL</b>	<b>\$98b</b>

Over 2  
Million  
Employees  
Work in the  
U.S.  
Aerospace  
and  
Aviation  
Industry,  
Earning  
an Average  
Wage  
of  
\$47,700

## A SNAPSHOT OF ALABAMA'S AEROSPACE & AVIATION INDUSTRY

*Alabama's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
27th  
by  
Employment  
with  
23,300  
Jobs*

### NASA CENTER

◆ Marshall Space Flight Center

COMMISSION ON THE  
FUTURE OF THE  
U.S. AEROSPACE INDUSTRY



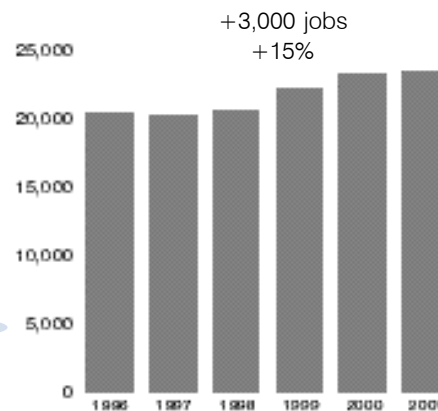
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>23,347</b>
EMPLOYMENT RANK	27 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>13</b>
JOBS PER CAPITA RANK	24 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>262</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	8,100
2. AIRCRAFT AND PARTS MANUFACTURING	7,100
3. GUIDED MISSILES AND SPACE MFG.	4,700

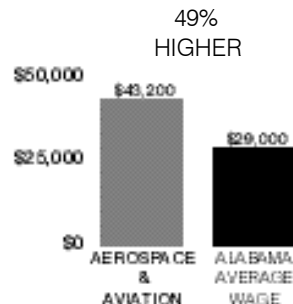


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$43,170</b>
WAGE RANK	24 <sup>TH</sup>
<b>ALABAMA AVERAGE WAGE</b>	<b>\$29,037</b>
WAGE DIFFERENTIAL	49%
<b>PAYROLL</b>	<b>\$1.0b</b>

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF ALASKA'S AEROSPACE & AVIATION INDUSTRY

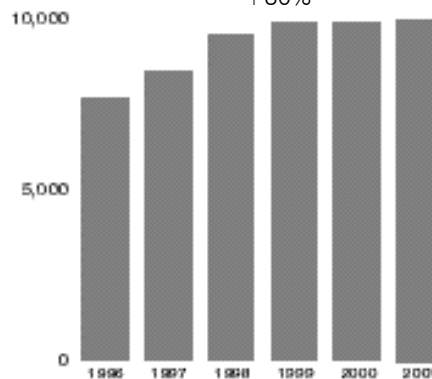
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>9,944</b>
EMPLOYMENT RANK	35TH
<b>JOBS PER 1,000 WORKERS</b>	<b>35</b>
JOBS PER CAPITA RANK	3RD
<b>ESTABLISHMENTS</b>	<b>344</b>
<b>TOP AEROSPACE &amp; AVIATION SECTOR</b>	
1. AIR TRANSPORTATION	9,900

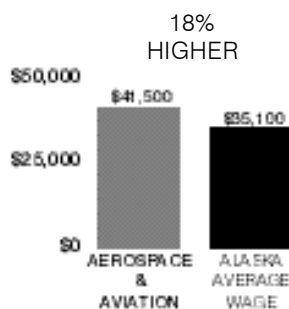
### EMPLOYMENT

1996 - 2001

+2,300 jobs  
+30%



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,544</b>
WAGE RANK	27TH
<b>ALASKA AVERAGE WAGE</b>	<b>\$35,124</b>
WAGE DIFFERENTIAL	18%
<b>PAYROLL</b>	<b>\$408m</b>

*Alaska's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
35th  
by  
Employment  
with  
9,900  
Jobs*



## A SNAPSHOT OF ARIZONA'S AEROSPACE & AVIATION INDUSTRY

Arizona's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
8th  
by  
Employment  
with  
69,000  
Jobs



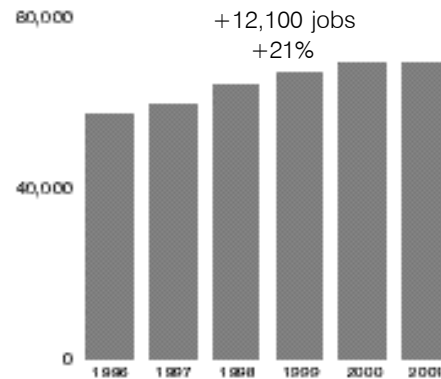
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>68,987</b>
EMPLOYMENT RANK	8TH
<b>JOBS PER 1,000 WORKERS</b>	<b>31</b>
JOBS PER CAPITA RANK	4TH
<b>ESTABLISHMENTS</b>	<b>571</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	31,000
2. AIRCRAFT AND PARTS MANUFACTURING	21,500
3. GUIDED MISSILES AND SPACE MFG.	10,800

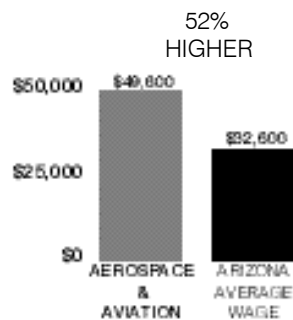


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

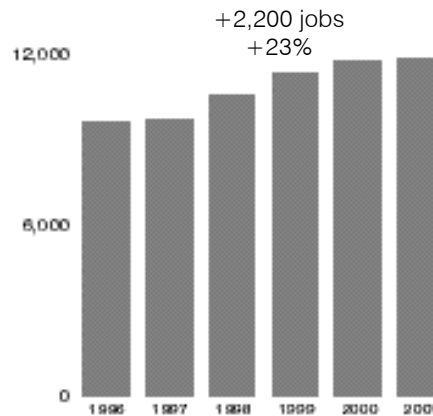
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$49,556</b>
WAGE RANK	9TH
<b>ARIZONA AVERAGE WAGE</b>	<b>\$32,606</b>
WAGE DIFFERENTIAL	52%
<b>PAYROLL</b>	<b>\$3.4b</b>

## A SNAPSHOT OF ARKANSAS' AEROSPACE & AVIATION INDUSTRY

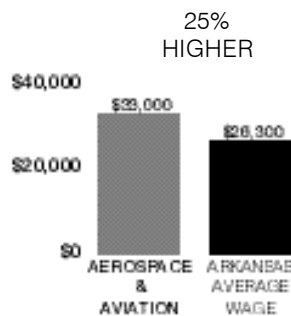
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>11,828</b>
EMPLOYMENT RANK	32ND
<b>JOBS PER 1,000 WORKERS</b>	<b>10</b>
JOBS PER CAPITA RANK	31ST
<b>ESTABLISHMENTS</b>	<b>251</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	6,600
2. AIRCRAFT AND PARTS MANUFACTURING	4,900
3. SEARCH, DETECTION, NAVIGATION	300

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$32,966</b>
WAGE RANK	44TH
<b>ARKANSAS AVERAGE WAGE</b>	<b>\$26,307</b>
WAGE DIFFERENTIAL	25%
<b>PAYROLL</b>	<b>\$387m</b>

*Arkansas'  
Aerospace  
and  
Aviation  
Industry  
Ranks  
32nd  
by  
Employment  
with  
11,800  
Jobs*

# CALIFORNIA 2001

## A SNAPSHOT OF CALIFORNIA'S AEROSPACE & AVIATION INDUSTRY

*California's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
1st  
by  
Employment  
with  
293,700  
Jobs*



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>293,701</b>
EMPLOYMENT RANK	1 <sup>ST</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>19</b>
JOBS PER CAPITA RANK	12 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>2,843</b>

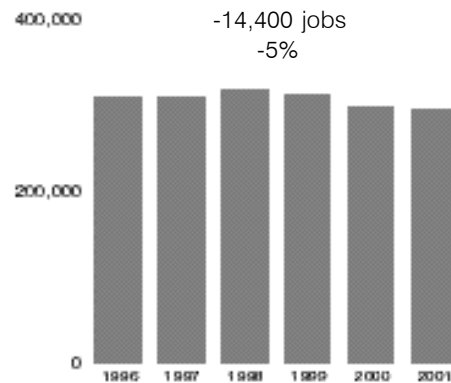
#### TOP AEROSPACE & AVIATION SECTORS

1. AIR TRANSPORTATION	148,600
2. AIRCRAFT AND PARTS MANUFACTURING	70,200
3. SEARCH, DETECTION, NAVIGATION	48,100



### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$53,909</b>
WAGE RANK	5 <sup>TH</sup>
<b>CALIFORNIA AVERAGE WAGE</b>	<b>\$41,194</b>
WAGE DIFFERENTIAL	31%
<b>PAYROLL</b>	<b>\$16.1b</b>

#### NASA CENTERS

- ◆ Ames Research Center
- ◆ Dryden Flight Research Center
- ◆ Jet Propulsion Laboratory

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U.S. AEROSPACE INDUSTRY

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

# A SNAPSHOT OF COLORADO'S AEROSPACE & AVIATION INDUSTRY

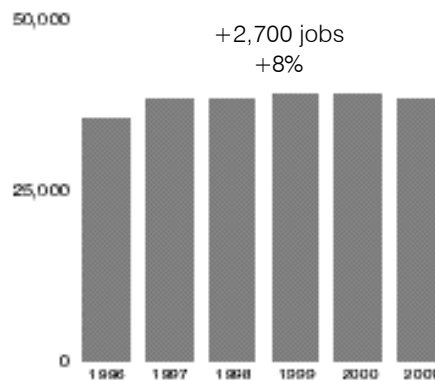


## EMPLOYMENT

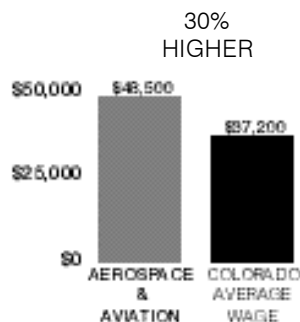
<b>EMPLOYMENT</b>	<b>38,040</b>
EMPLOYMENT RANK	19TH
<b>JOBS PER 1,000 WORKERS</b>	<b>17</b>
JOBS PER CAPITA RANK	14TH
<b>ESTABLISHMENTS</b>	<b>483</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	26,600
2. GUIDED MISSILES AND SPACE MFG.	6,500
3. SEARCH, DETECTION, NAVIGATION	2,900



## EMPLOYMENT 1996 - 2001




## WAGE COMPARISON




## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$48,487</b>
WAGE RANK	10TH
<b>COLORADO AVERAGE WAGE</b>	<b>\$37,167</b>
WAGE DIFFERENTIAL	30%
<b>PAYROLL</b>	<b>\$1.9b</b>

*Colorado's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
19th  
by  
Employment  
with  
38,000  
Jobs*



# CONNECTICUT 2001

## A SNAPSHOT OF CONNECTICUT'S AEROSPACE & AVIATION INDUSTRY

Connecticut's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
14th  
by  
Employment  
with  
45,800  
Jobs



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>45,827</b>
EMPLOYMENT RANK	14TH
<b>JOBS PER 1,000 WORKERS</b>	<b>28</b>
JOBS PER CAPITA RANK	5TH

### ESTABLISHMENTS

391

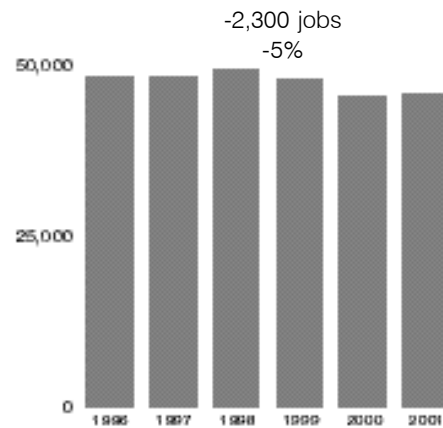
### TOP AEROSPACE & AVIATION SECTORS

1. AIRCRAFT AND PARTS MANUFACTURING 34,500
2. AIR TRANSPORTATION 9,900
3. SEARCH, DETECTION, NAVIGATION 1,100

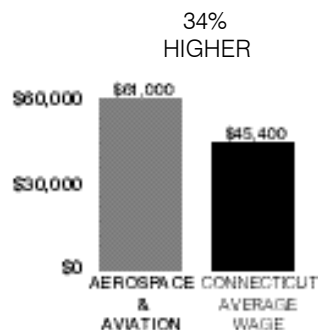


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$60,976</b>
WAGE RANK	2ND
<b>CONNECTICUT AVG. WAGE</b>	<b>\$45,445</b>
WAGE DIFFERENTIAL	34%
<b>PAYROLL</b>	<b>\$2.8b</b>

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U.S. AEROSPACE INDUSTRY

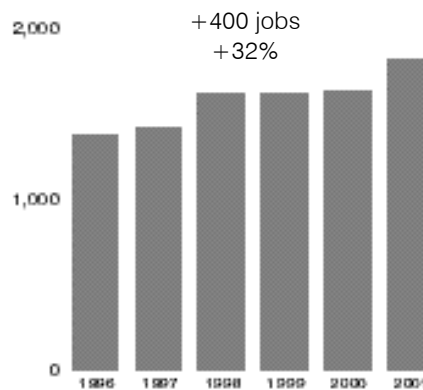
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF DELAWARE'S AEROSPACE & AVIATION INDUSTRY

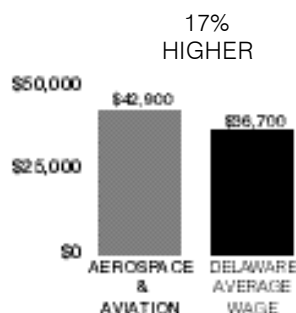
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>1,807</b>
EMPLOYMENT RANK	50TH
<b>JOBS PER 1,000 WORKERS</b>	<b>4</b>
JOBS PER CAPITA RANK	50TH
<b>ESTABLISHMENTS</b>	<b>54</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	1,500
2. AIRCRAFT AND PARTS MANUFACTURING	200
3. SATELLITE COMMUNICATIONS	50

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$42,943</b>
WAGE RANK	25TH
<b>DELAWARE AVERAGE WAGE</b>	<b>\$36,677</b>
WAGE DIFFERENTIAL	17%
<b>PAYROLL</b>	<b>\$70m</b>

*Delaware's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
50th  
by  
Employment  
with  
1,800  
Jobs*

# DISTRICT OF COLUMBIA 2001

## A SNAPSHOT OF DISTRICT OF COLUMBIA'S AEROSPACE & AVIATION INDUSTRY

*The District  
of  
Columbia's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
52nd  
by  
Employment  
with  
1,100  
Jobs*

### NASA CENTER

◆ NASA Headquarters

COMMISSION ON THE  
FUTURE OF THE  
U.S. AEROSPACE INDUSTRY



### EMPLOYMENT

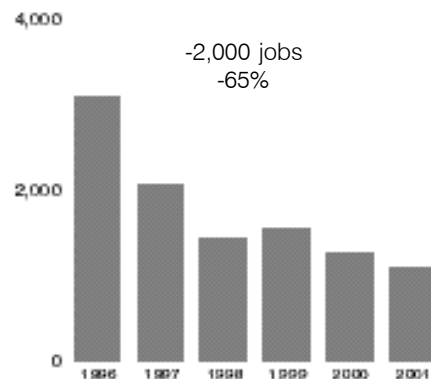
<b>EMPLOYMENT</b>	<b>1,092*</b>
EMPLOYMENT RANK	52ND
<b>JOBS PER 1,000 WORKERS</b>	<b>2</b>
JOBS PER CAPITA RANK	52ND
<b>ESTABLISHMENTS</b>	<b>79</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	800
2. AIRCRAFT AND PARTS MANUFACTURING	100
3. SPACE RESEARCH AND TECHNOLOGY	100

\* These employment data do not include government relations positions, as those are counted as public advocacy rather than aerospace.

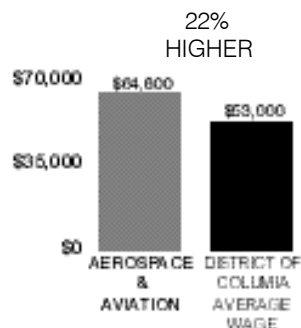


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$64,588</b>
WAGE RANK	1ST
<b>D.C. AVERAGE WAGE</b>	<b>\$53,018</b>
WAGE DIFFERENTIAL	22%
<b>PAYROLL</b>	<b>\$82m</b>

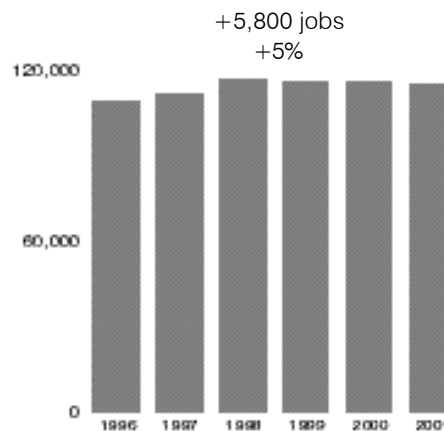
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF FLORIDA'S AEROSPACE & AVIATION INDUSTRY

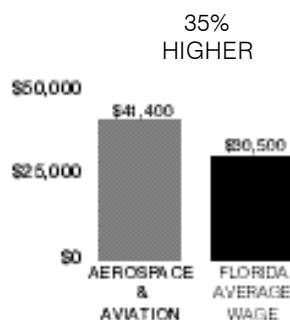
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>114,274</b>
EMPLOYMENT RANK	4TH
<b>JOBS PER 1,000 WORKERS</b>	<b>16</b>
JOBS PER CAPITA RANK	16TH
<b>ESTABLISHMENTS</b>	<b>1,620</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	79,100
2. AIRCRAFT AND PARTS MANUFACTURING	14,500
3. SEARCH, DETECTION, NAVIGATION	8,500

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,383</b>
WAGE RANK	30TH
<b>FLORIDA AVERAGE WAGE</b>	<b>\$30,549</b>
WAGE DIFFERENTIAL	35%
<b>PAYROLL</b>	<b>\$4.8b</b>

*Florida's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
4th  
by  
Employment  
with  
114,300  
Jobs*

#### NASA CENTER

◆ Kennedy Space  
Center

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U.S. AEROSPACE INDUSTRY



## A SNAPSHOT OF GEORGIA'S AEROSPACE & AVIATION INDUSTRY

*Georgia's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
7th  
by  
Employment  
with  
83,000  
Jobs*



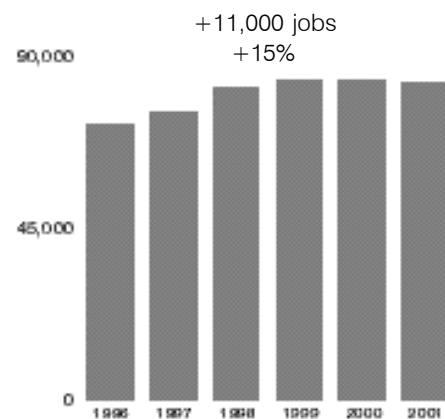
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>83,006</b>
EMPLOYMENT RANK	7 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>21</b>
JOBS PER CAPITA RANK	8 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>530</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	63,700
2. AIRCRAFT AND PARTS MANUFACTURING	18,000
3. GUIDED MISSILES AND SPACE MFG.	500

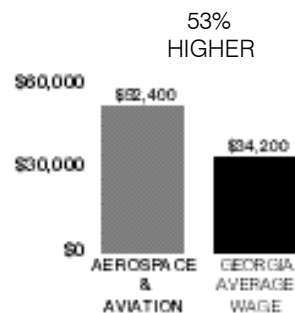


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$52,413</b>
WAGE RANK	7 <sup>TH</sup>
<b>GEORGIA AVERAGE WAGE</b>	<b>\$34,182</b>
WAGE DIFFERENTIAL	53%
<b>PAYROLL</b>	<b>\$4.4b</b>

# HAWAII

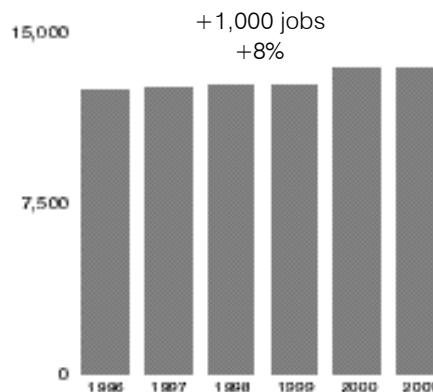
# 2001

## A SNAPSHOT OF HAWAII'S AEROSPACE & AVIATION INDUSTRY

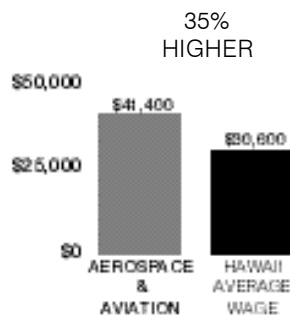
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>13,412</b>
EMPLOYMENT RANK	30TH
<b>JOBS PER 1,000 WORKERS</b>	<b>24</b>
JOBS PER CAPITA RANK	6TH
<b>ESTABLISHMENTS</b>	<b>180</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	13,200
2. SATELLITE COMMUNICATIONS	200

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,390</b>
WAGE RANK	29TH
<b>HAWAII AVERAGE WAGE</b>	<b>\$30,629</b>
WAGE DIFFERENTIAL	35%
<b>PAYROLL</b>	<b>\$555m</b>

*Hawaii's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
30th  
By  
Employment  
With  
13,400  
Jobs*

## A SNAPSHOT OF IDAHO'S AEROSPACE & AVIATION INDUSTRY

Idaho's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
44th  
by  
Employment  
with  
3,200  
Jobs



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>3,207</b>
EMPLOYMENT RANK	44TH
<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	44TH
<b>ESTABLISHMENTS</b>	<b>177</b>

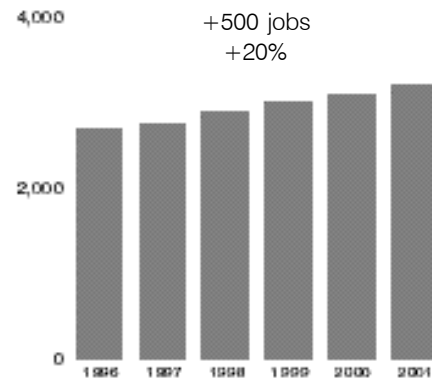
### TOP AEROSPACE & AVIATION SECTORS

1. AIR TRANSPORTATION	3,000
2. AIRCRAFT AND PARTS MANUFACTURING	100
3. SEARCH, DETECTION, NAVIGATION	100

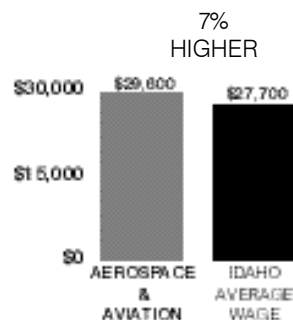


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$29,624</b>
WAGE RANK	50TH
<b>IDAHO AVERAGE WAGE</b>	<b>\$27,709</b>
WAGE DIFFERENTIAL	7%
<b>PAYROLL</b>	<b>\$91m</b>

# A SNAPSHOT OF ILLINOIS' AEROSPACE & AVIATION INDUSTRY

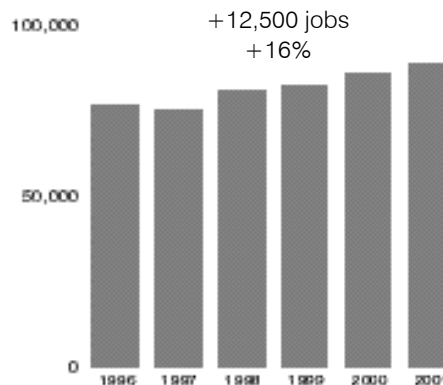


## EMPLOYMENT

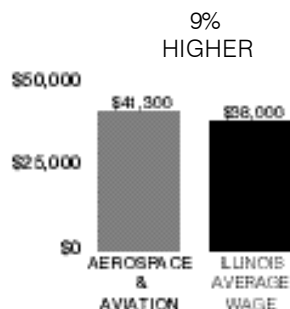
<b>EMPLOYMENT</b>	<b>88,709</b>
EMPLOYMENT RANK	6TH
<b>JOBS PER 1,000 WORKERS</b>	<b>15</b>
JOBS PER CAPITA RANK	18TH
<b>ESTABLISHMENTS</b>	<b>608</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	82,200
2. AIRCRAFT AND PARTS MANUFACTURING	3,200
3. SEARCH, DETECTION, NAVIGATION	2,200



## EMPLOYMENT 1996 - 2001




## WAGE COMPARISON




## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,285</b>
WAGE RANK	31ST
<b>ILLINOIS AVERAGE WAGE</b>	<b>\$38,044</b>
WAGE DIFFERENTIAL	9%
<b>PAYROLL</b>	<b>\$3.5b</b>

*Illinois'  
Aerospace  
and  
Aviation  
Industry  
Ranks  
6th  
by  
Employment  
with  
88,700  
Jobs*

## A SNAPSHOT OF INDIANA'S AEROSPACE & AVIATION INDUSTRY

*Indiana's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
24th  
by  
Employment  
with  
35,600  
Jobs*



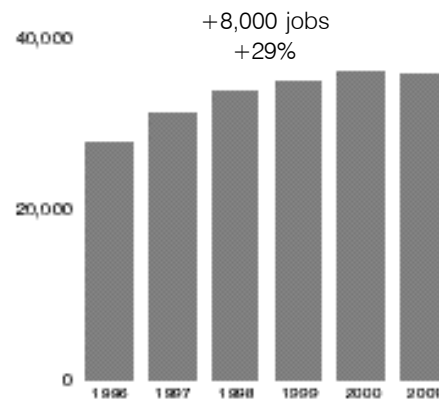
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>35,557</b>
EMPLOYMENT RANK	24 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>12</b>
JOBS PER CAPITA RANK	25 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>355</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	25,500
2. AIRCRAFT AND PARTS MANUFACTURING	8,000
3. SEARCH, DETECTION, NAVIGATION	2,000

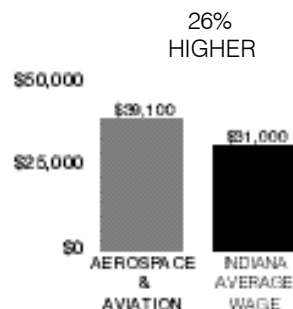


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

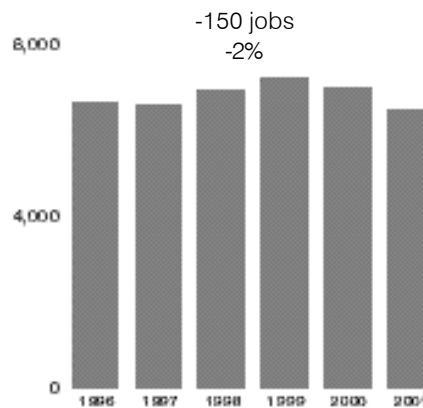
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$39,132</b>
WAGE RANK	35 <sup>TH</sup>
<b>INDIANA AVERAGE WAGE</b>	<b>\$31,015</b>
WAGE DIFFERENTIAL	26%
<b>PAYROLL</b>	<b>\$1.4b</b>

## A SNAPSHOT OF IOWA'S AEROSPACE & AVIATION INDUSTRY

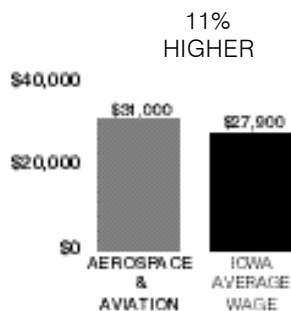
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>6,463</b>
EMPLOYMENT RANK	39TH
<b>JOBS PER 1,000 WORKERS</b>	<b>5</b>
JOBS PER CAPITA RANK	49TH
<b>ESTABLISHMENTS</b>	<b>194</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	5,500
2. AIRCRAFT AND PARTS MANUFACTURING	900

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$31,043</b>
WAGE RANK	46TH
<b>IOWA AVERAGE WAGE</b>	<b>\$27,928</b>
WAGE DIFFERENTIAL	11%
<b>PAYROLL</b>	<b>\$216m</b>

*Iowa's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
39th  
by  
Employment  
with  
6,500  
Jobs*

# A SNAPSHOT OF KANSAS' AEROSPACE & AVIATION INDUSTRY

*Kansas' Aerospace and Aviation Industry Ranks 12th by Employment with 57,100 Jobs*



## EMPLOYMENT

<b>EMPLOYMENT</b>	<b>57,103</b>
EMPLOYMENT RANK	12TH
<b>JOBS PER 1,000 WORKERS</b>	<b>43</b>
JOBS PER CAPITA RANK	2ND
<b>ESTABLISHMENTS</b>	<b>352</b>

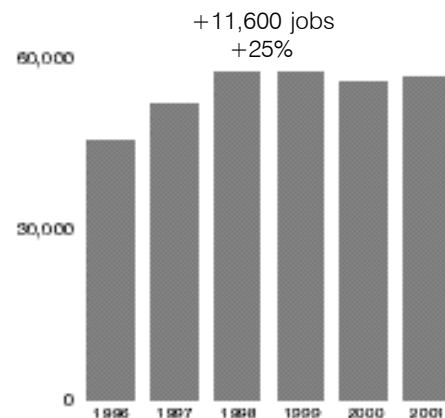
### TOP AEROSPACE & AVIATION SECTORS

1. AIRCRAFT AND PARTS MANUFACTURING 47,900
2. AIR TRANSPORTATION 8,000
3. SEARCH, DETECTION, NAVIGATION 1,200

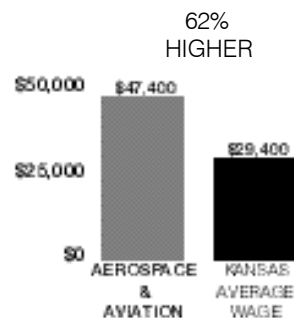


## EMPLOYMENT

1996 - 2001



## WAGE COMPARISON



## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$47,429</b>
WAGE RANK	14TH
<b>KANSAS AVERAGE WAGE</b>	<b>\$29,357</b>
WAGE DIFFERENTIAL	62%
<b>PAYROLL</b>	<b>\$2.6b</b>

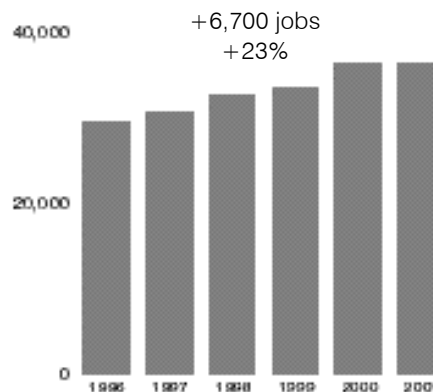


## A SNAPSHOT OF KENTUCKY'S AEROSPACE & AVIATION INDUSTRY

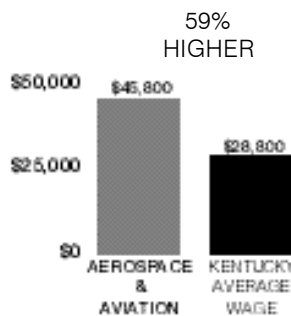
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>36,173</b>
EMPLOYMENT RANK	23RD
<b>JOBS PER 1,000 WORKERS</b>	<b>21</b>
JOBS PER CAPITA RANK	9TH
<b>ESTABLISHMENTS</b>	<b>258</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	34,200
2. AIRCRAFT AND PARTS MANUFACTURING	2,000

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$45,842</b>
WAGE RANK	18TH
<b>KENTUCKY AVERAGE WAGE</b>	<b>\$28,829</b>
WAGE DIFFERENTIAL	59%
<b>PAYROLL</b>	<b>\$1.7b</b>

*Kentucky's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
23rd  
by  
Employment  
with  
36,200  
Jobs*

# A SNAPSHOT OF LOUISIANA'S AEROSPACE & AVIATION INDUSTRY

*Louisiana's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
33rd  
by  
Employment  
with  
11,700  
Jobs*



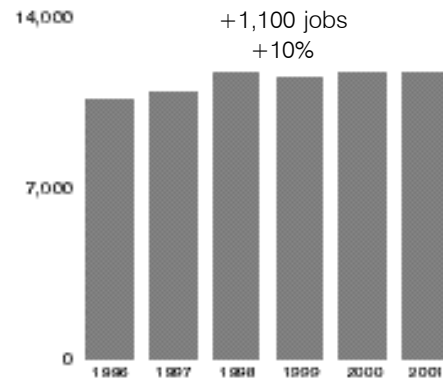
## EMPLOYMENT

<b>EMPLOYMENT</b>	<b>11,671</b>
EMPLOYMENT RANK	33RD
<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	41ST
<b>ESTABLISHMENTS</b>	<b>290</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	9,700
2. AIRCRAFT AND PARTS MANUFACTURING	1,900
3. SATELLITE COMMUNICATIONS	100

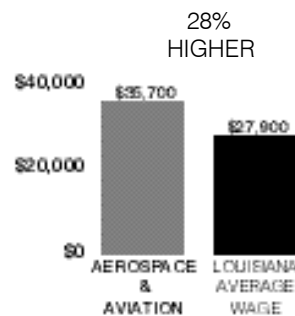


## EMPLOYMENT

1996 - 2001



## WAGE COMPARISON



## WAGES

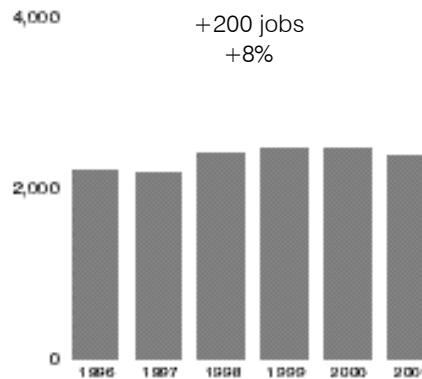
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$35,725</b>
WAGE RANK	37TH
<b>LOUISIANA AVERAGE WAGE</b>	<b>\$27,877</b>
WAGE DIFFERENTIAL	28%
<b>PAYROLL</b>	<b>\$416m</b>

## A SNAPSHOT OF MAINE'S AEROSPACE & AVIATION INDUSTRY

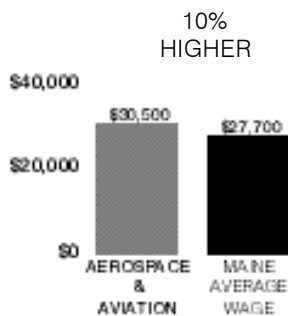
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>2,384</b>
EMPLOYMENT RANK	47 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>4</b>
JOBS PER CAPITA RANK	51 <sup>ST</sup>
<b>ESTABLISHMENTS</b>	<b>98</b>
<b>TOP AEROSPACE &amp; AVIATION SECTOR</b>	
1. AIR TRANSPORTATION	2,400

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$30,503</b>
WAGE RANK	47 <sup>TH</sup>
<b>MAINE AVERAGE WAGE</b>	<b>\$27,664</b>
WAGE DIFFERENTIAL	10%
<b>PAYROLL</b>	<b>\$75m</b>

*Maine's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
47th  
by  
Employment  
with  
2,400  
Jobs*

## A SNAPSHOT OF MARYLAND'S AEROSPACE & AVIATION INDUSTRY

*Maryland's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
22nd  
by  
Employment  
with  
37,300  
Jobs*



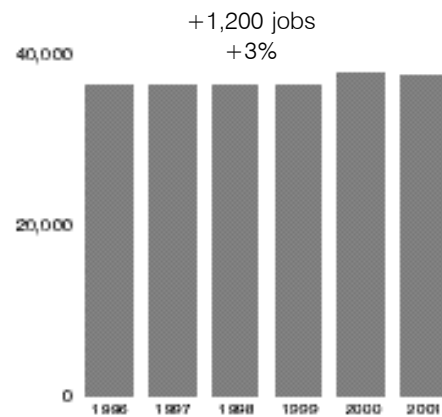
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>37,346</b>
EMPLOYMENT RANK	22 <sup>ND</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>15</b>
JOBS PER CAPITA RANK	17 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>374</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	18,300
2. SEARCH, DETECTION, NAVIGATION	9,800
3. GUIDED MISSILES AND SPACE MFG.	3,800

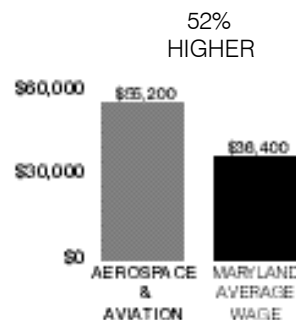


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$55,242</b>
WAGE RANK	4 <sup>TH</sup>
<b>MARYLAND AVERAGE WAGE</b>	<b>\$36,373</b>
WAGE DIFFERENTIAL	52%
<b>PAYROLL</b>	<b>\$2.1b</b>

#### NASA CENTER

- ◆ Goddard Space Flight Center

COMMISSION ON THE  
FUTURE OF THE  
U.S. AEROSPACE INDUSTRY

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

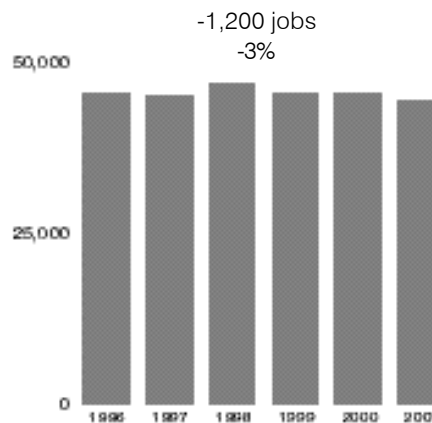
# MASSACHUSETTS 2001

## A SNAPSHOT OF MASSACHUSETTS' AEROSPACE & AVIATION INDUSTRY

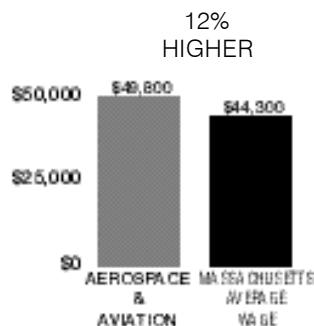
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>44,086</b>
EMPLOYMENT RANK	17TH
<b>JOBS PER 1,000 WORKERS</b>	<b>13</b>
JOBS PER CAPITA RANK	21ST
<b>ESTABLISHMENTS</b>	<b>403</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	25,000
2. GUIDED MISSILES AND SPACE MFG.	8,800
3. SEARCH, DETECTION, NAVIGATION	4,900

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$49,820</b>
WAGE RANK	8TH
<b>MASSACHUSETTS AVG. WAGE</b>	<b>\$44,326</b>
WAGE DIFFERENTIAL	12%
<b>PAYROLL</b>	<b>\$2.3b</b>

*Massachusetts'  
Aerospace  
and  
Aviation  
Industry  
Ranks  
17th  
by  
Employment  
with  
44,100  
Jobs*

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

COMMISSION ON THE  
FUTURE OF THE  
U.S. AEROSPACE INDUSTRY

## A SNAPSHOT OF MICHIGAN'S AEROSPACE & AVIATION INDUSTRY

*Michigan's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
18th  
by  
Employment  
with  
39,800  
Jobs*



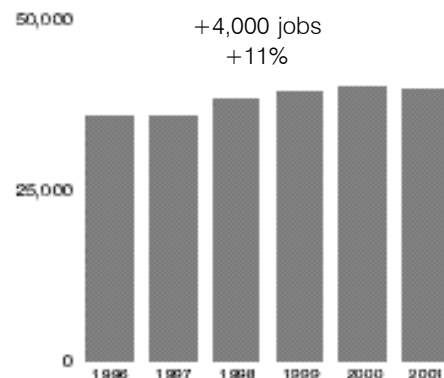
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>39,757</b>
EMPLOYMENT RANK	18TH
<b>JOBS PER 1,000 WORKERS</b>	<b>9</b>
JOBS PER CAPITA RANK	35TH
<b>ESTABLISHMENTS</b>	<b>578</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	33,100
2. AIRCRAFT AND PARTS MANUFACTURING	4,700
3. SEARCH, DETECTION, NAVIGATION	1,600

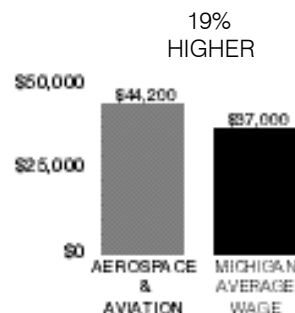


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$44,232</b>
WAGE RANK	22ND
<b>MICHIGAN AVERAGE WAGE</b>	<b>\$37,016</b>
WAGE DIFFERENTIAL	19%
<b>PAYROLL</b>	<b>\$1.8b</b>

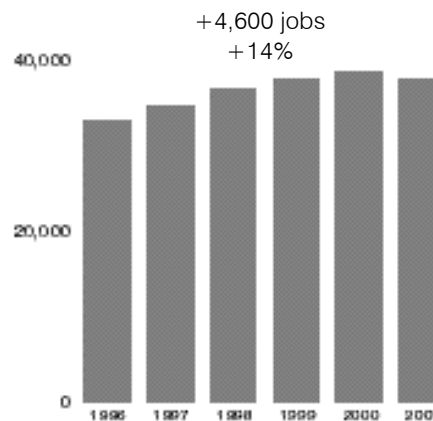
## A SNAPSHOT OF MINNESOTA'S AEROSPACE & AVIATION INDUSTRY

### EMPLOYMENT

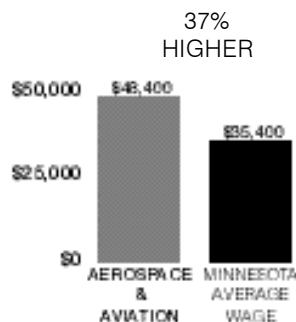
<b>EMPLOYMENT</b>	<b>37,553</b>
EMPLOYMENT RANK	21 <sup>ST</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>14</b>
JOBS PER CAPITA RANK	20 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>334</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	33,600
2. SEARCH, DETECTION, NAVIGATION	3,100
3. AIRCRAFT AND PARTS MANUFACTURING	800

### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$48,413</b>
WAGE RANK	11 <sup>TH</sup>
<b>MINNESOTA AVERAGE WAGE</b>	<b>\$35,418</b>
WAGE DIFFERENTIAL	37%
<b>PAYROLL</b>	<b>\$1.9b</b>

*Minnesota's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
21<sup>st</sup>  
by  
Employment  
with  
37,600  
Jobs*



# MISSISSIPPI 2001

## A SNAPSHOT OF MISSISSIPPI'S AEROSPACE & AVIATION INDUSTRY

*Mississippi's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
40th  
by  
Employment  
with  
5,700  
Jobs*



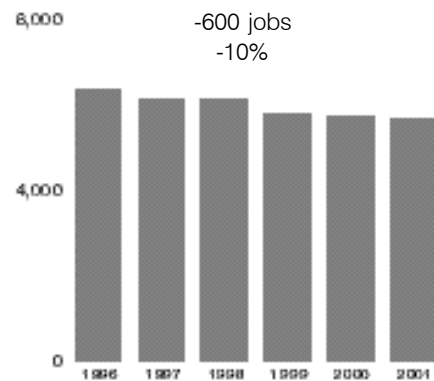
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>5,675</b>
EMPLOYMENT RANK	40TH
<b>JOBS PER 1,000 WORKERS</b>	<b>5</b>
JOBS PER CAPITA RANK	46TH
<b>ESTABLISHMENTS</b>	<b>152</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	5,100
2. GUIDED MISSILES AND SPACE MFG.	300
3. AIRCRAFT AND PARTS MANUFACTURING	200

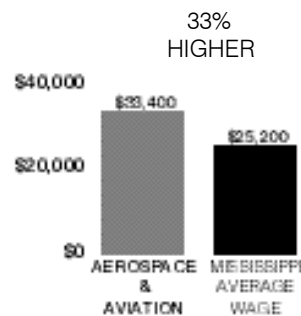


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$33,438</b>
WAGE RANK	43RD
<b>MISSISSIPPI AVERAGE WAGE</b>	<b>\$25,197</b>
WAGE DIFFERENTIAL	33%
<b>PAYROLL</b>	<b>\$192m</b>

#### NASA CENTER

◆ Stennis Space Center

COMMISSION ON THE  
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U.S. AEROSPACE INDUSTRY

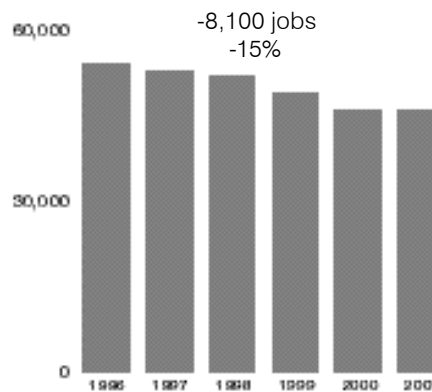
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF MISSOURI'S AEROSPACE & AVIATION INDUSTRY

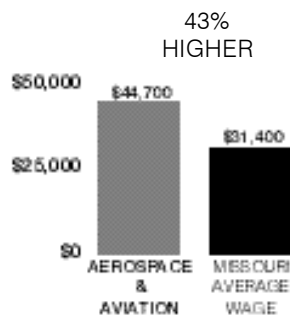
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>45,706</b>
EMPLOYMENT RANK	15TH
<b>JOBS PER 1,000 WORKERS</b>	<b>17</b>
JOBS PER CAPITA RANK	15TH
<b>ESTABLISHMENTS</b>	<b>404</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	26,600
2. AIRCRAFT AND PARTS MANUFACTURING	17,700
3. SEARCH, DETECTION, NAVIGATION	1,100

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$44,743</b>
WAGE RANK	19TH
<b>MISSOURI AVERAGE WAGE</b>	<b>\$31,386</b>
WAGE DIFFERENTIAL	43%
<b>PAYROLL</b>	<b>\$2.0b</b>

*Missouri's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
15th  
by  
Employment  
with  
45,700  
Jobs*

## A SNAPSHOT OF MONTANA'S AEROSPACE & AVIATION INDUSTRY

Montana's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
46th  
by  
Employment  
with  
2,600  
Jobs



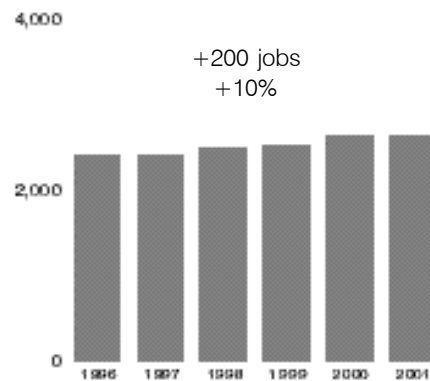
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>2,631</b>
EMPLOYMENT RANK	46TH
<b>JOBS PER 1,000 WORKERS</b>	<b>7</b>
JOBS PER CAPITA RANK	38TH
<b>ESTABLISHMENTS</b>	<b>163</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	2,500
2. AIRCRAFT AND PARTS MANUFACTURING	100

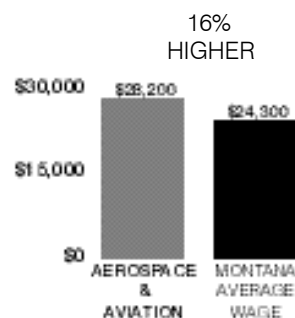


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

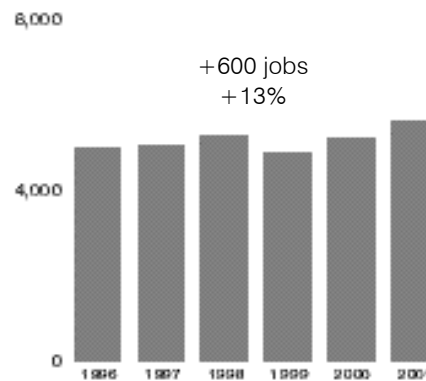
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$28,209</b>
WAGE RANK	51ST
<b>MONTANA AVERAGE WAGE</b>	<b>\$24,264</b>
WAGE DIFFERENTIAL	16%
<b>PAYROLL</b>	<b>\$74m</b>

## A SNAPSHOT OF NEBRASKA'S AEROSPACE & AVIATION INDUSTRY

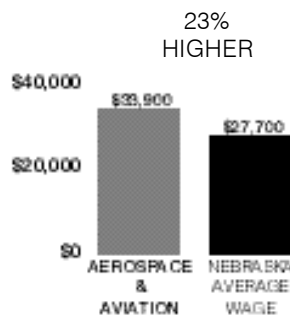
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>5,618</b>
EMPLOYMENT RANK	41 <sup>ST</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	39 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>153</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	5,250
2. AIRCRAFT AND PARTS MANUFACTURING	300
2. SATELLITE COMMUNICATIONS	50

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$33,912</b>
WAGE RANK	41 <sup>ST</sup>
<b>NEBRASKA AVERAGE WAGE</b>	<b>\$27,662</b>
WAGE DIFFERENTIAL	23%
<b>PAYROLL</b>	<b>\$176m</b>

*Nebraska's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
41<sup>st</sup>  
by  
Employment  
with  
5,600  
Jobs*

## A SNAPSHOT OF NEVADA'S AEROSPACE & AVIATION INDUSTRY

*Nevada's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
31st  
by  
Employment  
with  
12,800  
Jobs*



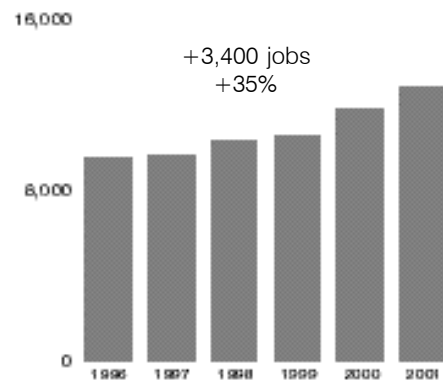
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>12,825</b>
EMPLOYMENT RANK	31 <sup>ST</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>12</b>
JOBS PER CAPITA RANK	26 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>226</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	12,800
2. AIRCRAFT AND PARTS MANUFACTURING	50

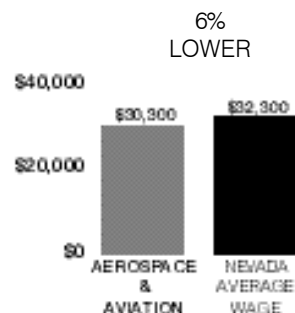


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$30,311</b>
WAGE RANK	48 <sup>TH</sup>
<b>NEVADA AVERAGE WAGE</b>	<b>\$32,276</b>
WAGE DIFFERENTIAL	-6%
<b>PAYROLL</b>	<b>\$355m</b>

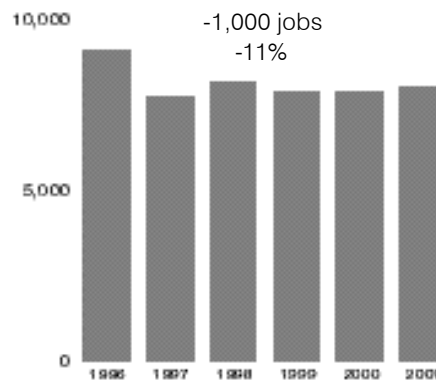
# NEW HAMPSHIRE 2001

## A SNAPSHOT OF NEW HAMPSHIRE'S AEROSPACE & AVIATION INDUSTRY

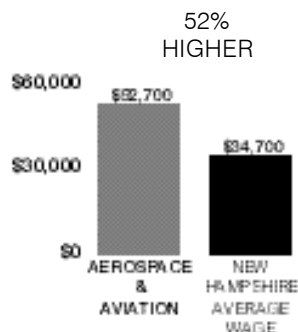
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>8,000</b>
EMPLOYMENT RANK	37 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>13</b>
JOBS PER CAPITA RANK	22 <sup>ND</sup>
<b>ESTABLISHMENTS</b>	<b>135</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. SEARCH, DETECTION, NAVIGATION	4,700
2. AIR TRANSPORTATION	3,300
3. SATELLITE COMMUNICATIONS	50

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$52,665</b>
WAGE RANK	6 <sup>TH</sup>
<b>NEW HAMPSHIRE AVG. WAGE</b>	<b>\$34,731</b>
WAGE DIFFERENTIAL	52%
<b>PAYROLL</b>	<b>\$412m</b>

*New  
Hampshire's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
37<sup>th</sup>  
by  
Employment  
with  
8,000  
Jobs*

# NEW JERSEY 2001

## A SNAPSHOT OF NEW JERSEY'S AEROSPACE & AVIATION INDUSTRY

New  
Jersey's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
11th  
by  
Employment  
with  
57,300  
Jobs



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>57,262</b>
EMPLOYMENT RANK	11TH
<b>JOBS PER 1,000 WORKERS</b>	<b>15</b>
JOBS PER CAPITA RANK	19TH
<b>ESTABLISHMENTS</b>	<b>473</b>

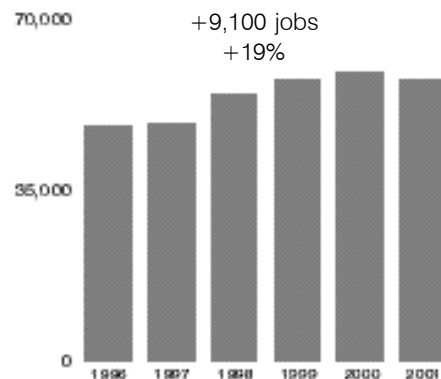
#### TOP AEROSPACE & AVIATION SECTORS

1. AIR TRANSPORTATION	45,500
2. SEARCH, DETECTION, NAVIGATION	8,800
3. AIRCRAFT AND PARTS MANUFACTURING	2,200

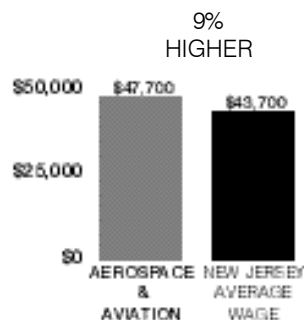


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$47,742</b>
WAGE RANK	13TH
<b>NEW JERSEY AVERAGE WAGE</b>	<b>\$43,691</b>
WAGE DIFFERENTIAL	9%
<b>PAYROLL</b>	<b>\$2.8b</b>



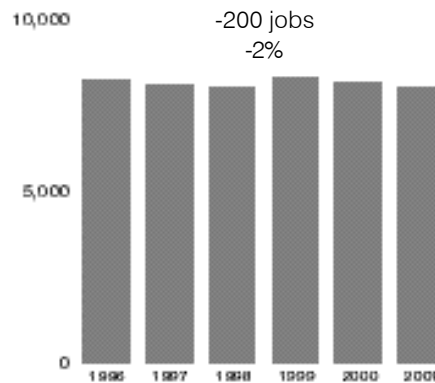
# NEW MEXICO 2001

## A SNAPSHOT OF NEW MEXICO'S AEROSPACE & AVIATION INDUSTRY

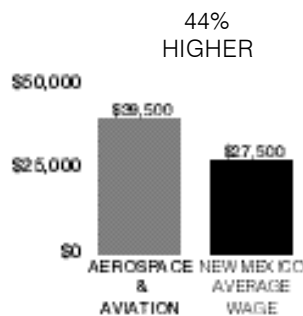
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>8,018</b>
EMPLOYMENT RANK	36TH
<b>JOBS PER 1,000 WORKERS</b>	<b>11</b>
JOBS PER CAPITA RANK	30TH
<b>ESTABLISHMENTS</b>	<b>199</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	5,100
2. SEARCH, DETECTION, NAVIGATION	1,800
3. AIRCRAFT AND PARTS MANUFACTURING	800

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$39,503</b>
WAGE RANK	34TH
<b>NEW MEXICO AVG. WAGE</b>	<b>\$27,498</b>
WAGE DIFFERENTIAL	44%
<b>PAYROLL</b>	<b>\$322m</b>

*New  
Mexico's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
36th  
by  
Employment  
with  
8,000  
Jobs*

#### NASA CENTER

◆ White Sands Test Facility

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U.S. AEROSPACE INDUSTRY

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF NEW YORK'S AEROSPACE & AVIATION INDUSTRY

*New York's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
5th  
by  
Employment  
with  
97,100  
Jobs*



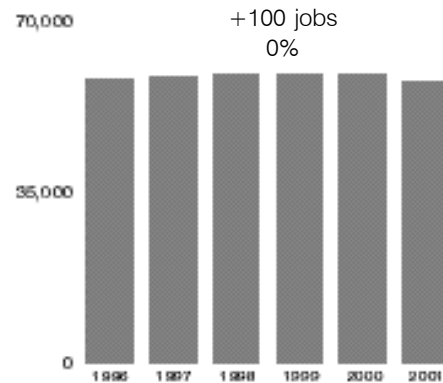
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>97,066</b>
EMPLOYMENT RANK	5TH
<b>JOBS PER 1,000 WORKERS</b>	<b>11</b>
JOBS PER CAPITA RANK	28TH
<b>ESTABLISHMENTS</b>	<b>1,223</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	78,900
2. SEARCH, DETECTION, NAVIGATION	10,300
3. AIRCRAFT AND PARTS MANUFACTURING	6,400

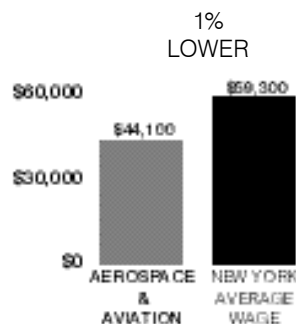


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$44,647</b>
WAGE RANK	21ST
<b>NEW YORK AVERAGE WAGE</b>	<b>\$44,942</b>
WAGE DIFFERENTIAL	-1%
<b>PAYROLL</b>	<b>\$4.4b</b>

#### NASA CENTER

◆ Goddard Institute for Space Studies

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Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

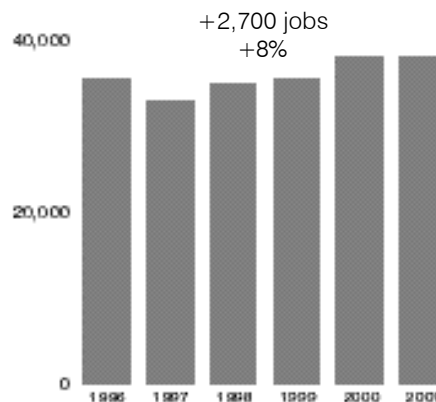
# NORTH CAROLINA 2001

## A SNAPSHOT OF NORTH CAROLINA'S AEROSPACE & AVIATION INDUSTRY

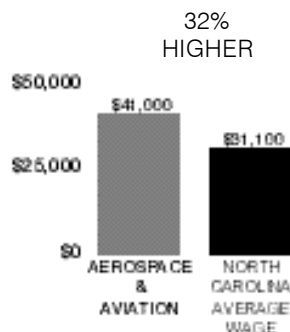
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>37,971</b>
EMPLOYMENT RANK	20TH
<b>JOBS PER 1,000 WORKERS</b>	<b>10</b>
JOBS PER CAPITA RANK	34TH
<b>ESTABLISHMENTS</b>	<b>410</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	34,900
2. AIRCRAFT AND PARTS MANUFACTURING	2,300
3. SEARCH, DETECTION, NAVIGATION	600

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,035</b>
WAGE RANK	32ND
<b>NORTH CAROLINA AVG. WAGE</b>	<b>\$31,077</b>
WAGE DIFFERENTIAL	32%
<b>PAYROLL</b>	<b>\$1.6b</b>

*North  
Carolina's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
20th  
by  
Employment  
with  
38,000  
Jobs*

# NORTH DAKOTA 2001

## A SNAPSHOT OF NORTH DAKOTA'S AEROSPACE & AVIATION INDUSTRY

North  
Dakota's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
48th  
by  
Employment  
with  
2,000  
Jobs



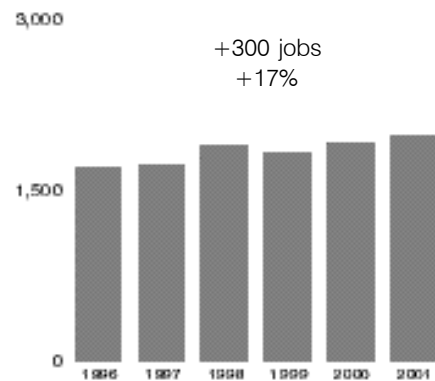
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>1,966</b>
EMPLOYMENT RANK	48 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	40 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>80</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	1,300
2. AIRCRAFT AND PARTS MANUFACTURING	600

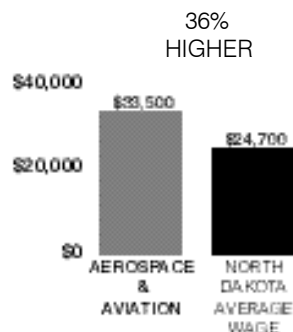


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$33,494</b>
WAGE RANK	42 <sup>ND</sup>
<b>NORTH DAKOTA AVG. WAGE</b>	<b>\$24,678</b>
WAGE DIFFERENTIAL	36%
<b>PAYROLL</b>	<b>\$64m</b>

OHIO

2001

# A SNAPSHOT OF OHIO'S AEROSPACE & AVIATION INDUSTRY

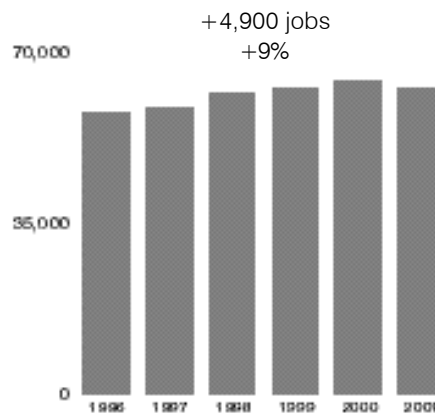


## EMPLOYMENT

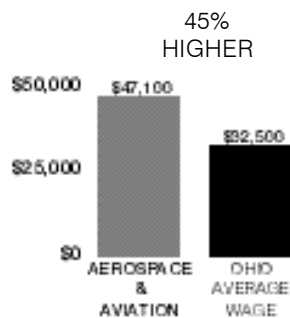
<b>EMPLOYMENT</b>	<b>62,475</b>
EMPLOYMENT RANK	10TH
<b>JOBS PER 1,000 WORKERS</b>	<b>11</b>
JOBS PER CAPITA RANK	29TH
<b>ESTABLISHMENTS</b>	<b>613</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	41,400
2. AIRCRAFT AND PARTS MANUFACTURING	18,900
3. SPACE RESEARCH & TECHNOLOGY	2,000



## EMPLOYMENT 1996 - 2001




## WAGE COMPARISON




## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$47,082</b>
WAGE RANK	15TH
<b>OHIO AVERAGE WAGE</b>	<b>\$32,510</b>
WAGE DIFFERENTIAL	45%
<b>PAYROLL</b>	<b>\$3.0b</b>

*Ohio's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
10th  
by  
Employment  
with  
62,500  
Jobs*

### NASA CENTER

◆ Glenn Research Center

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U.S. AEROSPACE INDUSTRY

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF OKLAHOMA'S AEROSPACE & AVIATION INDUSTRY

*Oklahoma's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
25th  
by  
Employment  
with  
25,900  
Jobs*



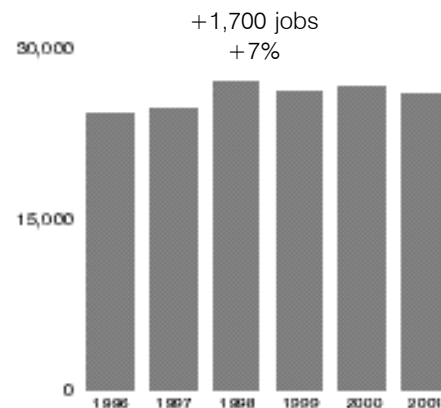
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>25,909</b>
EMPLOYMENT RANK	25TH
<b>JOBS PER 1,000 WORKERS</b>	<b>18</b>
JOBS PER CAPITA RANK	13TH
<b>ESTABLISHMENTS</b>	<b>354</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	18,500
2. AIRCRAFT AND PARTS MANUFACTURING	6,900
3. SEARCH, DETECTION, NAVIGATION	600

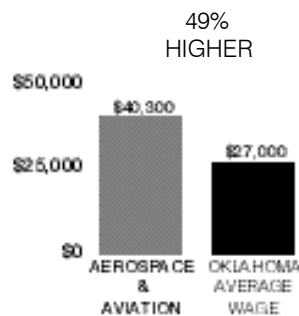


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

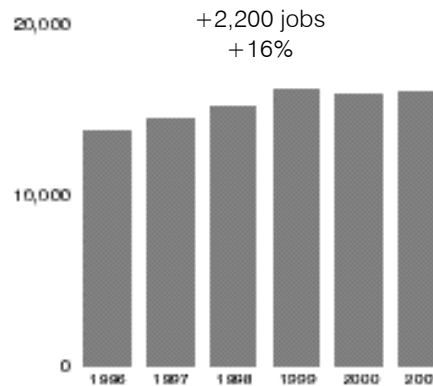
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$40,254</b>
WAGE RANK	33RD
<b>OKLAHOMA AVERAGE WAGE</b>	<b>\$26,980</b>
WAGE DIFFERENTIAL	49%
<b>PAYROLL</b>	<b>\$1.1b</b>

## A SNAPSHOT OF OREGON'S AEROSPACE & AVIATION INDUSTRY

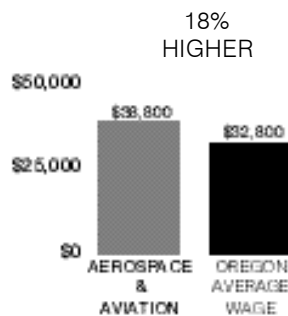
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>15,983</b>
EMPLOYMENT RANK	29 <sup>TH</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>10</b>
JOBS PER CAPITA RANK	33 <sup>RD</sup>
<b>ESTABLISHMENTS</b>	<b>290</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	12,600
2. AIRCRAFT AND PARTS MANUFACTURING	2,600
3. SEARCH, DETECTION, NAVIGATION	800

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$38,764</b>
WAGE RANK	36 <sup>TH</sup>
<b>OREGON AVERAGE WAGE</b>	<b>\$32,765</b>
WAGE DIFFERENTIAL	18%
<b>PAYROLL</b>	<b>\$614m</b>

*Oregon's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
29<sup>th</sup>  
by  
Employment  
with  
16,000  
Jobs*



# PENNSYLVANIA 2001

## A SNAPSHOT OF PENNSYLVANIA'S AEROSPACE & AVIATION INDUSTRY

*Pennsylvania's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
9th  
by  
Employment  
with  
65,200  
Jobs*



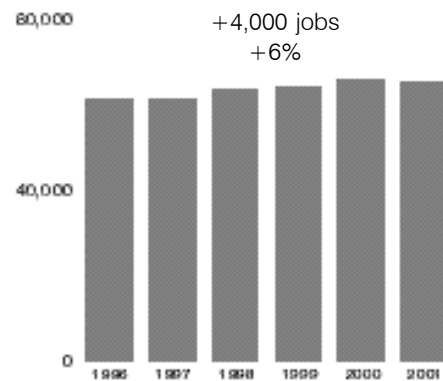
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>65,188</b>
EMPLOYMENT RANK	9TH
<b>JOBS PER 1,000 WORKERS</b>	<b>12</b>
JOBS PER CAPITA RANK	27TH
<b>ESTABLISHMENTS</b>	<b>636</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	50,500
2. AIRCRAFT AND PARTS MANUFACTURING	8,100
3. GUIDED MISSILES AND SPACE MFG.	4,200

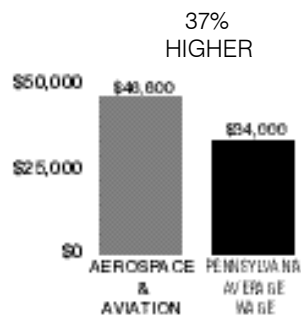


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$46,649</b>
WAGE RANK	16TH
<b>PENNSYLVANIA AVG. WAGE</b>	<b>\$33,999</b>
WAGE DIFFERENTIAL	37%
<b>PAYROLL</b>	<b>\$3.0b</b>

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U.S. AEROSPACE INDUSTRY

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

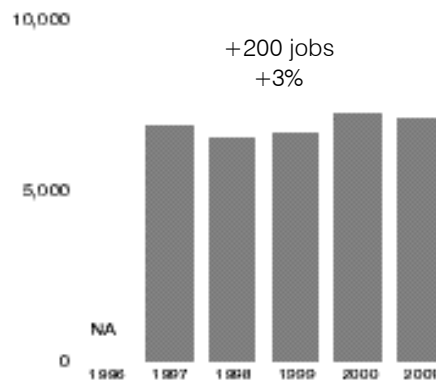
# PUERTO RICO 2001

## A SNAPSHOT OF PUERTO RICO'S AEROSPACE & AVIATION INDUSTRY

### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>7,038</b>
EMPLOYMENT RANK	38TH
<b>JOBS PER 1,000 WORKERS</b>	<b>7</b>
JOBS PER CAPITA RANK	37TH
<b>ESTABLISHMENTS</b>	<b>132</b>
<b>TOP AEROSPACE &amp; AVIATION SECTOR</b>	
1. AIR TRANSPORTATION	7,000

### EMPLOYMENT 1997 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$24,015</b>
WAGE RANK	52ND
<b>PUERTO RICO AVG. WAGE</b>	<b>\$18,796</b>
WAGE DIFFERENTIAL	28%
<b>PAYROLL</b>	<b>\$173m</b>

*Puerto Rico's Aerospace and Aviation Industry Ranks 38th by Employment with 7,000 Jobs*

# R H O D E I S L A N D 2 0 0 1

## A SNAPSHOT OF RHODE ISLAND'S AEROSPACE & AVIATION INDUSTRY

*Rhode  
Island's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
43rd  
by  
Employment  
with  
3,500  
Jobs*



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>3,458</b>
EMPLOYMENT RANK	43RD
<b>JOBS PER 1,000 WORKERS</b>	<b>7</b>
JOBS PER CAPITA RANK	36TH
<b>ESTABLISHMENTS</b>	<b>60</b>

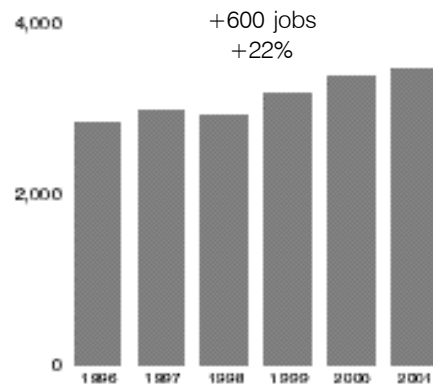
#### TOP AEROSPACE & AVIATION SECTORS

1. AIR TRANSPORTATION 2,300
2. SEARCH, DETECTION, NAVIGATION 1,200

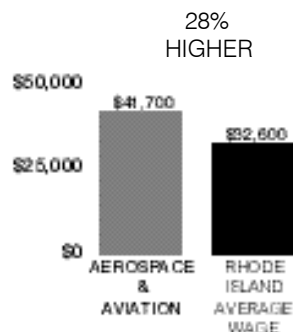


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,689</b>
WAGE RANK	26TH
<b>RHODE ISLAND AVG. WAGE</b>	<b>\$32,618</b>
WAGE DIFFERENTIAL	28%
<b>PAYROLL</b>	<b>\$141m</b>

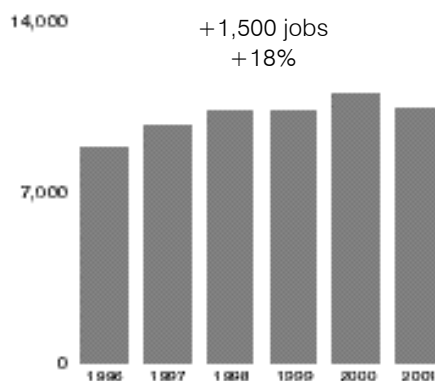
# SOUTH CAROLINA 2001

## A SNAPSHOT OF SOUTH CAROLINA'S AEROSPACE & AVIATION INDUSTRY

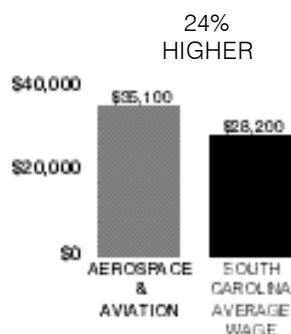
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>10,395</b>
EMPLOYMENT RANK	34TH
<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	43RD
<b>ESTABLISHMENTS</b>	<b>252</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	9,100
2. AIRCRAFT AND PARTS MANUFACTURING	800
3. SATELLITE COMMUNICATIONS	600

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$35,065</b>
WAGE RANK	39TH
<b>SOUTH CAROLINA AVG. WAGE</b>	<b>\$28,172</b>
WAGE DIFFERENTIAL	24%
<b>PAYROLL</b>	<b>\$387m</b>

*South  
Carolina's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
34th  
by  
Employment  
with  
10,400  
Jobs*

# SOUTH DAKOTA 2001

## A SNAPSHOT OF SOUTH DAKOTA'S AEROSPACE & AVIATION INDUSTRY

South  
Dakota's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
49th  
by  
Employment  
with  
1,900  
Jobs



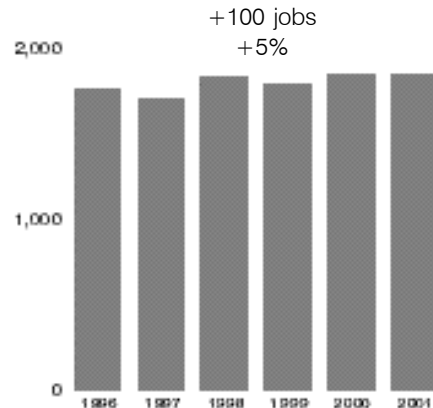
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>1,846</b>
EMPLOYMENT RANK	49TH
<b>JOBS PER 1,000 WORKERS</b>	<b>5</b>
JOBS PER CAPITA RANK	47TH
<b>ESTABLISHMENTS</b>	<b>92</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	1,800
2. AIRCRAFT AND PARTS MANUFACTURING	75

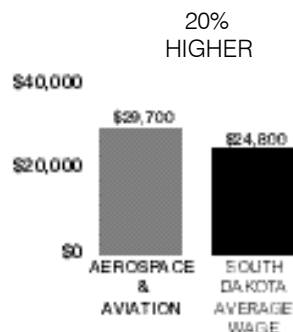


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$29,683</b>
WAGE RANK	49TH
<b>SOUTH DAKOTA AVG. WAGE</b>	<b>\$24,803</b>
WAGE DIFFERENTIAL	20%
<b>PAYROLL</b>	<b>\$55m</b>

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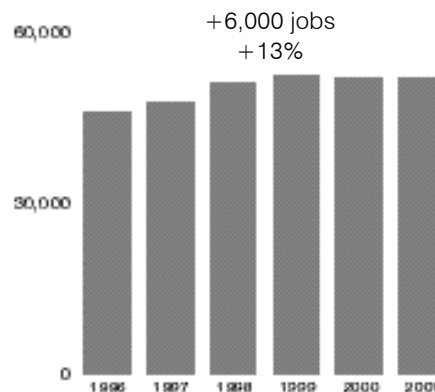
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF TENNESSEE'S AEROSPACE & AVIATION INDUSTRY

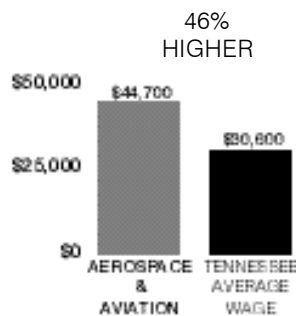
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>51,775</b>
EMPLOYMENT RANK	13TH
<b>JOBS PER 1,000 WORKERS</b>	<b>20</b>
JOBS PER CAPITA RANK	11TH
<b>ESTABLISHMENTS</b>	<b>359</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	48,000
2. AIRCRAFT AND PARTS MANUFACTURING	3,600
3. SATELLITE COMMUNICATIONS	100

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$44,732</b>
WAGE RANK	20TH
<b>TENNESSEE AVERAGE WAGE</b>	<b>\$30,558</b>
WAGE DIFFERENTIAL	46%
<b>PAYROLL</b>	<b>\$2.3b</b>

*Tennessee's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
13th  
by  
Employment  
with  
51,800  
Jobs*

## A SNAPSHOT OF TEXAS' AEROSPACE & AVIATION INDUSTRY

*Texas'*  
*Aerospace*  
*and*  
*Aviation*  
*Industry*  
*Ranks*  
*2nd*  
*by*  
*Employment*  
*with*  
*184,200*  
*Jobs*



### EMPLOYMENT

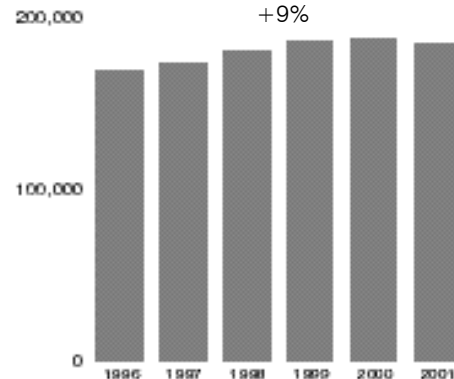
<b>EMPLOYMENT</b>	<b>184,175</b>
EMPLOYMENT RANK	2 <sup>ND</sup>
<b>JOBS PER 1,000 WORKERS</b>	<b>20</b>
JOBS PER CAPITA RANK	10 <sup>TH</sup>
<b>ESTABLISHMENTS</b>	<b>1,679</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	128,600
2. AIRCRAFT AND PARTS MANUFACTURING	42,300
3. SEARCH, DETECTION, NAVIGATION	6,500



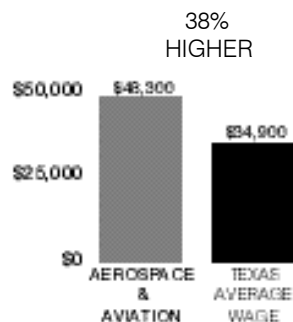
### EMPLOYMENT

1996 - 2001

+15,600 jobs  
+9%



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$48,332</b>
WAGE RANK	12 <sup>TH</sup>
<b>TEXAS AVERAGE WAGE</b>	<b>\$34,948</b>
WAGE DIFFERENTIAL	38%
<b>PAYROLL</b>	<b>\$9.0b</b>

#### NASA CENTER

◆ Johnson Space Center

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U.S. AEROSPACE INDUSTRY

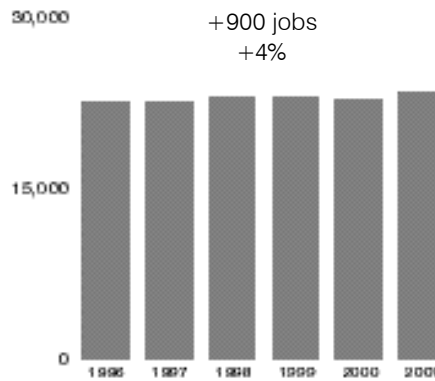
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF UTAH'S AEROSPACE & AVIATION INDUSTRY

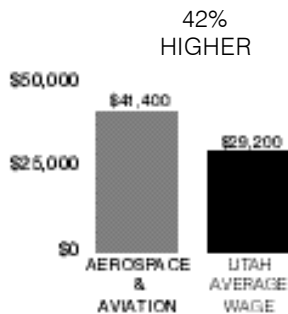
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>23,411</b>
EMPLOYMENT RANK	26TH
<b>JOBS PER 1,000 WORKERS</b>	<b>22</b>
JOBS PER CAPITA RANK	7TH
<b>ESTABLISHMENTS</b>	<b>220</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	15,500
2. GUIDED MISSILES AND SPACE MFG.	4,400
3. AIRCRAFT AND PARTS MANUFACTURING	2,600

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$41,427</b>
WAGE RANK	28TH
<b>UTAH AVERAGE WAGE</b>	<b>\$29,226</b>
WAGE DIFFERENTIAL	42%
<b>PAYROLL</b>	<b>\$940m</b>

*Utah's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
26th  
by  
Employment  
with  
23,400  
Jobs*



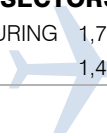
## A SNAPSHOT OF VERMONT'S AEROSPACE & AVIATION INDUSTRY

Vermont's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
45th  
by  
Employment  
with  
3,000  
Jobs



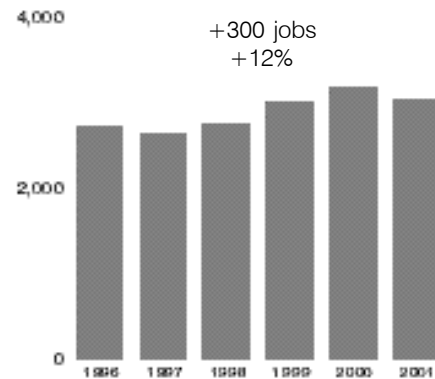
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>3,030</b>
EMPLOYMENT RANK	45TH
<b>JOBS PER 1,000 WORKERS</b>	<b>10</b>
JOBS PER CAPITA RANK	32ND
<b>ESTABLISHMENTS</b>	<b>60</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIRCRAFT AND PARTS MANUFACTURING	1,700
2. AIR TRANSPORTATION	1,400

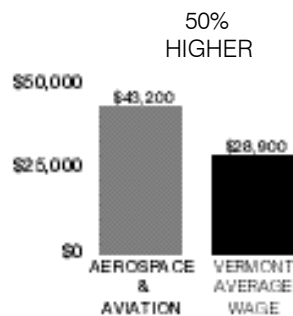


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

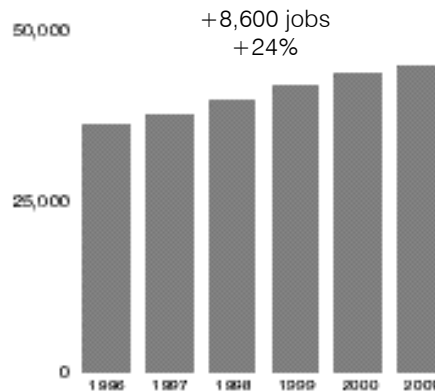
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$43,247</b>
WAGE RANK	23RD
<b>VERMONT AVERAGE WAGE</b>	<b>\$28,920</b>
WAGE DIFFERENTIAL	50%
<b>PAYROLL</b>	<b>\$137m</b>

## A SNAPSHOT OF VIRGINIA'S AEROSPACE & AVIATION INDUSTRY

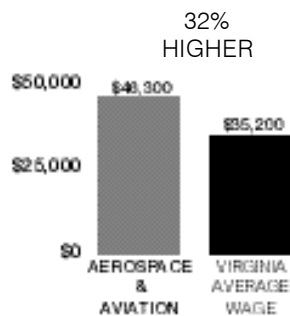
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>44,445</b>
EMPLOYMENT RANK	16TH
<b>JOBS PER 1,000 WORKERS</b>	<b>13</b>
JOBS PER CAPITA RANK	23RD
<b>ESTABLISHMENTS</b>	<b>506</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	33,300
2. SEARCH, DETECTION, NAVIGATION	3,600
3. SPACE RESEARCH AND TECHNOLOGY	2,600

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$46,300</b>
WAGE RANK	17TH
<b>VIRGINIA AVERAGE WAGE</b>	<b>\$35,151</b>
WAGE DIFFERENTIAL	32%
<b>PAYROLL</b>	<b>\$2.0b</b>

*Virginia's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
16th  
by  
Employment  
with  
44,400  
Jobs*

#### NASA CENTERS

- ◆ Langley Research Center
- ◆ Wallops Flight Facility

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# WASHINGTON 2001

## A SNAPSHOT OF WASHINGTON'S AEROSPACE & AVIATION INDUSTRY

Washington's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
3rd  
by  
Employment  
with  
117,600  
Jobs



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>117,629</b>
EMPLOYMENT RANK	3RD
<b>JOBS PER 1,000 WORKERS</b>	<b>44</b>
JOBS PER CAPITA RANK	1ST
<b>ESTABLISHMENTS</b>	<b>666</b>

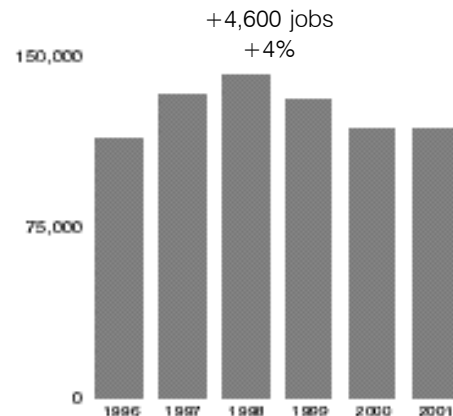
#### TOP AEROSPACE & AVIATION SECTORS

1. AIRCRAFT AND PARTS MANUFACTURING 87,000
2. AIR TRANSPORTATION 27,000
3. SEARCH, DETECTION, NAVIGATION 2,700

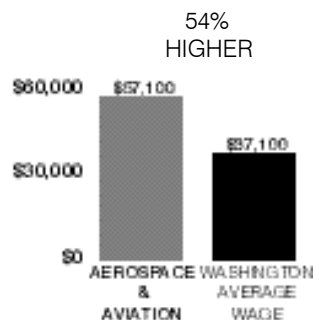


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$57,098</b>
WAGE RANK	3RD
<b>WASHINGTON AVG. WAGE</b>	<b>\$37,059</b>
WAGE DIFFERENTIAL	54%
<b>PAYROLL</b>	<b>\$6.7b</b>

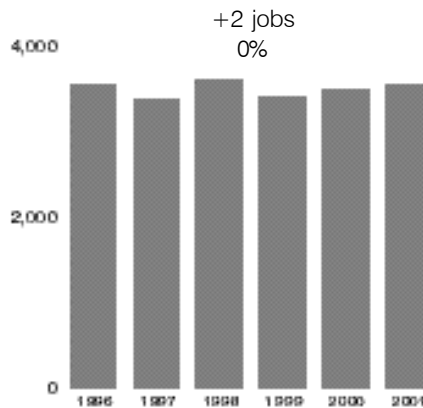
# WEST VIRGINIA 2001

## A SNAPSHOT OF WEST VIRGINIA'S AEROSPACE & AVIATION INDUSTRY

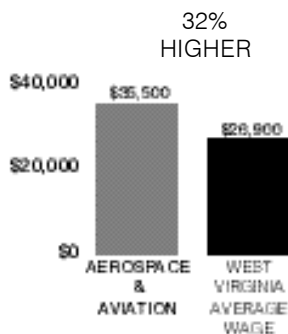
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>3,528</b>
EMPLOYMENT RANK	42ND
<b>JOBS PER 1,000 WORKERS</b>	<b>5</b>
JOBS PER CAPITA RANK	45TH
<b>ESTABLISHMENTS</b>	<b>106</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	2,100
2. AIRCRAFT AND PARTS MANUFACTURING	1,400

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$35,480</b>
WAGE RANK	38TH
<b>WEST VIRGINIA AVG. WAGE</b>	<b>\$26,887</b>
WAGE DIFFERENTIAL	32%
<b>PAYROLL</b>	<b>\$123m</b>

*West  
Virginia's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
42nd  
by  
Employment  
with  
3,500  
Jobs*

Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data include civilian and commercial workers.  
Source: U.S. Bureau of Labor Statistics

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U.S. AEROSPACE INDUSTRY

# W I S C O N S I N 2 0 0 1

## A SNAPSHOT OF WISCONSIN'S AEROSPACE & AVIATION INDUSTRY

*Wisconsin's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
28th  
by  
Employment  
with  
16,100  
Jobs*



### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>16,093</b>
EMPLOYMENT RANK	28TH

<b>JOBS PER 1,000 WORKERS</b>	<b>6</b>
JOBS PER CAPITA RANK	42ND

<b>ESTABLISHMENTS</b>	<b>255</b>
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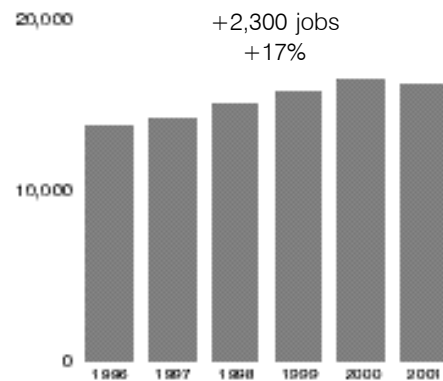
#### TOP AEROSPACE & AVIATION SECTORS

- |                                     |        |
|-------------------------------------|--------|
| 1. AIR TRANSPORTATION               | 13,700 |
| 2. SEARCH, DETECTION, NAVIGATION    | 1,600  |
| 3. AIRCRAFT AND PARTS MANUFACTURING | 700    |

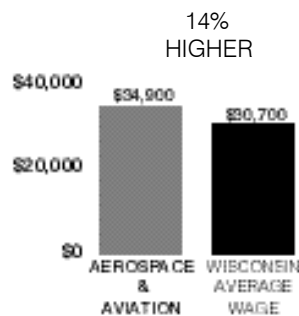


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$34,930</b>
WAGE RANK	40TH
<b>WISCONSIN AVERAGE WAGE</b>	<b>\$30,697</b>
WAGE DIFFERENTIAL	14%
<b>PAYROLL</b>	<b>\$571m</b>

# A SNAPSHOT OF WYOMING'S AEROSPACE & AVIATION INDUSTRY

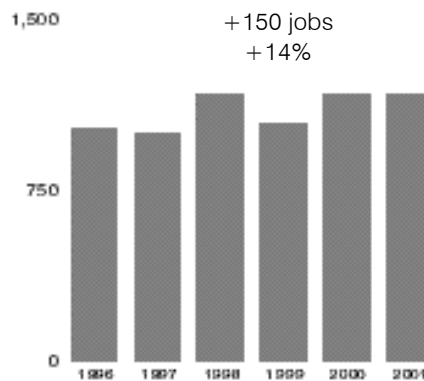


## EMPLOYMENT

<b>EMPLOYMENT</b>	<b>1,164</b>
EMPLOYMENT RANK	51 <sup>ST</sup>
<hr/>	
<b>JOBS PER 1,000 WORKERS</b>	<b>5</b>
JOBS PER CAPITA RANK	48 <sup>TH</sup>
<hr/>	
<b>ESTABLISHMENTS</b>	<b>82</b>
<hr/>	
<b>TOP AEROSPACE &amp; AVIATION SECTOR</b>	
1. AIR TRANSPORTATION	1,200



## EMPLOYMENT 1996 - 2001




## WAGE COMPARISON




## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$32,793</b>
WAGE RANK	45 <sup>TH</sup>
<hr/>	
<b>WYOMING AVERAGE WAGE</b>	<b>\$26,837</b>
WAGE DIFFERENTIAL	22%
<hr/>	
<b>PAYROLL</b>	<b>\$38m</b>

*Wyoming's  
Aerospace  
and  
Aviation  
Industry  
Ranks  
51<sup>st</sup>  
by  
Employment  
with  
1,200  
Jobs*

# THE AEROSPACE & AVIATION INDUSTRY

## STATE APPENDICES



# U.S. AEROSPACE AND AVIATION EMPLOYMENT

## U.S. EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY, 1996 - 2001

AEROSPACE AND AVIATION MANUFACTURING	1996	1997	1998	1999	2000	2001	% Change 1996-2001	# Change 1996-2001
Aircraft and Parts								
Aircraft	247,892	263,416	275,741	258,789	236,368	235,054	-5%	-12,838
Aircraft Engines and Engine Parts	94,948	98,405	102,256	101,548	99,341	97,662	3%	2,714
Aircraft Parts & Auxiliary Equipment	119,887	137,247	151,542	141,939	129,954	129,453	8%	9,566
Total	462,728	499,068	529,540	502,276	465,664	462,169	0%	-559
Guided Missiles and Space Vehicles and Parts								
Guided Missiles & Space Vehicles	63,628	62,944	62,485	59,005	58,624	57,040	-10%	-6,588
Guided Missiles & Space Vehicle Propulsion Units	16,328	16,250	16,699	15,729	14,726	NA	NA	NA
Guided Missiles & Space Vehicle Parts & Auxiliary Equipment	11,643	12,119	12,097	11,189	12,182	NA	NA	NA
Total	91,599	91,313	91,281	85,923	85,532	82,955	-9%	-8,644
Search, Detection, Navigation, Guidance, Aeronautical, & Nautical								
Total	160,146	159,602	160,291	162,615	151,725	151,124	-6%	-9,022
Subtotal Aerospace and Aviation Manufacturing	714,473	749,983	781,112	750,814	702,921	696,248	-3%	-18,225
AEROSPACE AND AVIATION SERVICES								
Transportation by Air								
Air Transportation, Scheduled	493,192	510,432	527,285	556,408	581,022	579,725	18%	86,533
Air Courier Services	472,297	468,665	494,664	501,960	520,316	506,239	7%	33,942
Air Transportation, Nonscheduled	42,703	45,278	47,438	46,971	48,246	50,723	19%	8,020
Airports, Flying Fields, and Airport Terminal Services	131,202	140,066	147,958	160,078	167,470	166,213	27%	35,011
Total	1,139,543	1,164,445	1,217,487	1,265,563	1,317,205	1,302,900	14%	163,357
Communications Services (Satellite Communications)								
Total	21,971	22,710	24,403	23,534	20,142	18,044	-18%	-3,927
Space Research and Technology								
Total	20,424	19,200	17,754	20,893	17,395	17,395	-15%	-3,029
Subtotal Aerospace and Aviation Services	1,181,938	1,206,355	1,259,644	1,309,990	1,354,742	1,338,339	13%	156,401
TOTAL AEROSPACE AND AVIATION	1,896,411	1,956,338	2,040,756	2,060,804	2,057,663	2,034,587	7%	138,176
Total - All Industries	117,990,570	121,044,360	124,150,620	127,042,281	129,925,814	130,125,063	10%	12,134,493
Aerospace and Aviation Workers per 1,000	16.1	16.2	16.4	16.2	15.8	15.6		

Some totals may not equal the sum of individual sectors due to rounding.  
2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics



# U.S. AEROSPACE AND AVIATION ANNUAL AVERAGE WAGES

## U.S. ANNUAL AVERAGE WAGES IN THE AEROSPACE AND AVIATION INDUSTRY, 1996 - 2000 (adjusted for inflation to 2000 dollars)

AEROSPACE AND AVIATION MANUFACTURING	1996	1997	1998	1999	2000	% Change 1996-2000	# Change 1996-2000
Aircraft and Parts							
Aircraft	\$57,967	\$59,319	\$59,570	\$59,953	\$60,131	4%	\$2,163
Aircraft Engines and Engine Parts	\$55,169	\$57,791	\$57,841	\$59,255	\$59,875	9%	\$4,707
Aircraft Parts & Auxiliary Equipment	\$48,358	\$49,466	\$49,502	\$49,645	\$49,788	3%	\$1,430
Total	\$54,903	\$56,308	\$56,355	\$56,899	\$57,190	4%	\$2,286
Guided Missiles and Space Vehicles and Parts							
Guided Missiles & Space Vehicles	\$64,746	\$64,840	\$65,326	\$68,101	\$67,354	4%	\$2,609
Guided Missiles & Space Vehicle Propulsion Units & Propulsion	\$55,767	\$56,598	\$57,273	\$58,918	\$61,581	10%	\$5,814
Guided Missiles & Space Vehicle Parts & Auxiliary Equipment	\$65,559	\$65,871	\$69,200	\$70,827	\$68,646	5%	\$3,088
Total	\$63,249	\$63,510	\$64,366	\$66,775	\$66,544	5%	\$3,296
Search, Detection, Navigation, Guidance, Aeronautical, & Nautical							
Total	\$62,234	\$61,967	\$63,650	\$65,242	\$65,138	5%	\$2,905
Subtotal Aerospace and Aviation Manufacturing	\$57,616	\$58,389	\$58,788	\$59,836	\$60,044	4%	\$2,427
AEROSPACE AND AVIATION SERVICES							
Transportation by Air							
Air Transportation, Scheduled	\$46,353	\$47,484	\$48,108	\$48,526	\$48,915	6%	\$2,561
Air Courier Services	\$30,828	\$32,014	\$32,619	\$35,148	\$34,266	11%	\$3,439
Air Transportation, Nonscheduled	\$36,918	\$37,394	\$38,640	\$39,617	\$40,274	9%	\$3,356
Airports, Flying Fields, and Airport Terminal Services	\$27,632	\$28,949	\$30,033	\$30,662	\$31,233	13%	\$3,601
Total	\$37,407	\$38,635	\$39,248	\$40,628	\$40,562	8%	\$3,155
Communications Services (Satellite Communications)							
Total	\$52,915	\$56,934	\$59,101	\$65,438	\$66,099	25%	\$13,184
Space Research and Technology							
Total	\$63,301	\$62,630	\$67,943	\$61,675	\$64,921	3%	\$1,620
Subtotal Aerospace and Aviation Services	\$38,142	\$39,362	\$40,037	\$41,409	\$41,254	8%	\$3,112
TOTAL AEROSPACE AND AVIATION	\$45,479	\$46,656	\$47,214	\$48,123	\$47,673	5%	\$2,194
Total - All Industries	\$31,770	\$32,565	\$33,709	\$34,461	\$35,296	11%	\$3,526
Wage Differential	43%	43%	40%	40%	35%		

2000 wage data are the most recent available.  
Some totals may not equal the sum of individual sectors due to rounding.

Source: U.S. Bureau of Labor Statistics

# U.S. AEROSPACE AND AVIATION ANNUAL PAYROLL

## U.S. ANNUAL PAYROLL IN THE AEROSPACE AND AVIATION INDUSTRY, 1996 - 2000

(adjusted for inflation to millions of 2000 dollars)

AEROSPACE AND AVIATION MANUFACTURING	1996	1997	1998	1999	2000	% Change 1996-2000	# Change 1996-2000
Aircraft and Parts							
Aircraft	\$14,370	\$15,626	\$16,426	\$15,515	\$14,213	-1%	-\$157
Aircraft Engines and Engine Parts	\$5,238	\$5,687	\$5,915	\$6,017	\$5,948	14%	\$710
Aircraft Parts & Auxiliary Equipment	\$5,798	\$6,789	\$7,502	\$7,047	\$6,470	12%	\$673
Total	\$25,405	\$28,101	\$29,842	\$28,579	\$26,631	5%	\$1,226
Guided Missiles and Space Vehicles and Parts							
Guided Missiles & Space Vehicles	\$4,120	\$4,081	\$4,082	\$4,018	\$3,949	-4%	-\$171
Guided Missiles & Space Vehicle Propulsion Units & Propulsion	\$911	\$920	\$956	\$927	\$907	0%	-\$4
Guided Missiles & Space Vehicle Parts & Auxiliary Equipment	\$763	\$798	\$837	\$792	\$836	10%	\$73
Total	\$5,794	\$5,799	\$5,875	\$5,737	\$5,692	-2%	-\$102
Search, Detection, Navigation, Guidance, Aeronautical, & Nautical							
Total	\$9,966	\$9,890	\$10,203	\$10,609	\$9,883	-1%	-\$83
Subtotal Aerospace and Aviation Manufacturing	\$41,165	\$43,791	\$45,920	\$44,926	\$42,206	3%	\$1,041
AEROSPACE AND AVIATION SERVICES							
Transportation by Air							
Air Transportation, Scheduled	\$22,861	\$24,237	\$25,367	\$27,000	\$28,420	24%	\$5,559
Air Courier Services	\$14,560	\$15,004	\$16,136	\$17,643	\$17,829	22%	\$3,270
Air Transportation, Nonscheduled	\$1,577	\$1,693	\$1,833	\$1,861	\$1,943	23%	\$367
Airports, Flying Fields, and Airport Terminal Services	\$3,625	\$4,055	\$4,444	\$4,908	\$5,231	44%	\$1,605
Total	\$42,627	\$44,989	\$47,783	\$51,417	\$53,428	25%	\$10,801
Communications Services (Satellite Communications)							
Total	\$1,163	\$1,293	\$1,442	\$1,540	\$1,331	15%	\$169
Space Research and Technology							
Total	\$1,293	\$1,202	\$1,206	\$1,289	\$1,129	-13%	-\$164
Subtotal Aerospace and Aviation Services	\$45,082	\$47,484	\$50,432	\$54,246	\$55,889	24%	\$10,807
TOTAL AEROSPACE AND AVIATION	\$86,247	\$91,275	\$96,352	\$99,171	\$98,095	14%	\$11,847
Total - All Industries	\$3,748,524	\$3,941,861	\$4,184,976	\$4,377,952	\$4,585,814	22%	\$837,290
Aerospace and Aviation Payroll as a Percent of All Industries	2.3%	2.3%	2.3%	2.3%	2.1%		

2000 payroll data are the most recent available.  
Some totals may not equal the sum of individual sectors due to rounding.

Source: U.S. Bureau of Labor Statistics

# U.S. AEROSPACE AND AVIATION ESTABLISHMENTS

## U.S. ESTABLISHMENTS IN THE AEROSPACE AND AVIATION INDUSTRY, 1996 - 2000

AEROSPACE AND AVIATION MANUFACTURING	1996	1997	1998	1999	2000	% Change 1996-2000	# Change 1996-2000
Aircraft and Parts							
Aircraft	459	466	485	486	483	5%	24
Aircraft Engines and Engine Parts	611	612	625	627	641	5%	30
Aircraft Parts & Auxiliary Equipment	1,815	1,838	1,936	1,896	1,794	-1%	-21
Total	2,886	2,916	3,046	3,009	2,918	1%	32
Guided Missiles and Space Vehicles and Parts							
Guided Missiles & Space Vehicles	145	137	117	104	113	-22%	-32
Guided Missiles & Space Vehicle Propulsion Units & Propulsion	65	64	64	65	66	2%	1
Guided Missiles & Space Vehicle Parts & Auxiliary Equipment	96	91	97	141	109	14%	13
Total	307	292	278	310	288	-6%	-19
Search, Detection, Navigation, Guidance, Aeronautical, & Nautical							
Total	843	834	817	853	878	4%	35
Subtotal Aerospace and Aviation Manufacturing	4,036	4,042	4,141	4,172	4,084	1%	48
AEROSPACE AND AVIATION SERVICES							
Transportation by Air							
Air Transportation, Scheduled	3,082	3,032	3,034	3,051	3,086	0%	4
Air Courier Services	3,932	4,058	4,318	4,341	4,509	15%	577
Air Transportation, Nonscheduled	2,656	2,755	2,841	2,935	2,981	12%	325
Airports, Flying Fields, and Airport Terminal Services	5,396	5,597	5,746	5,895	5,914	10%	518
Total	15,076	15,442	15,949	16,235	16,499	9%	1,423
Communications Services (Satellite Communications)							
Total	1,126	1,243	1,329	1,323	1,253	11%	127
Space Research and Technology							
Total	18	18	15	17	16	-11%	-2
Subtotal Aerospace and Aviation Services	16,220	16,703	17,293	17,575	17,768	10%	1,548
TOTAL AEROSPACE AND AVIATION	20,256	20,745	21,434	21,747	21,852	8%	1,596
Total - All Industries	7,188,080	7,369,380	7,632,190	7,820,859	7,899,242	10%	711,162
Aerospace and Aviation Establishments as a Percent of All Industries	0.3%	0.3%	0.3%	0.3%	0.3%		

2000 establishment data are the most recent available.  
Some totals may not equal the sum of individual sectors due to rounding.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION EMPLOYMENT BY STATE

## EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY BY STATE, 1996 - 2001

	1996	1997	1998	1999	2000	2001	% Change 1996-2001	# Change 1996-2001
United States	1,896,411	1,956,338	2,040,756	2,060,804	2,057,663	2,034,587	7%	138,176
Alabama	20,387	20,097	20,481	22,108	23,150	23,347	15%	2,960
Alaska	7,625	8,401	9,462	9,853	9,827	9,944	30%	2,298
Arizona	56,900	59,432	63,928	66,890	69,144	68,987	21%	12,087
Arkansas	9,598	9,670	10,514	11,288	11,741	11,828	23%	2,230
California	308,072	309,351	317,397	311,972	298,123	293,701	-5%	-14,371
Colorado	35,327	38,221	38,085	38,776	38,912	38,040	8%	2,713
Connecticut	48,089	48,217	49,278	47,650	45,445	45,827	-5%	-2,262
Delaware	1,369	1,414	1,614	1,610	1,622	1,807	32%	438
District of Columbia	3,082	2,072	1,429	1,556	1,263	1,092	-65%	-1,990
Florida	108,506	111,203	116,122	115,717	115,737	114,274	5%	5,768
Georgia	71,962	75,257	81,376	83,340	83,620	83,006	15%	11,044
Hawaii	12,438	12,498	12,678	12,634	13,412	13,412	8%	974
Idaho	2,674	2,744	2,898	2,984	3,083	3,207	20%	533
Illinois	76,173	75,422	80,308	82,260	85,557	88,709	16%	12,536
Indiana	27,605	31,046	33,557	34,813	35,905	35,557	29%	7,952
Iowa	6,607	6,542	6,928	7,168	6,966	6,463	-2%	-144
Kansas	45,544	51,918	57,439	57,335	55,827	57,103	25%	11,559
Kentucky	29,516	30,491	32,527	33,306	36,122	36,173	23%	6,657
Louisiana	10,613	10,905	11,681	11,449	11,652	11,671	10%	1,058
Maine	2,204	2,163	2,389	2,462	2,459	2,384	8%	180
Maryland	36,183	36,276	36,373	36,318	37,634	37,346	3%	1,163
Massachusetts	45,261	45,051	46,618	45,394	45,449	44,086	-3%	-1,175
Michigan	35,744	35,759	38,203	39,097	39,968	39,757	11%	4,013
Minnesota	32,905	34,580	36,657	37,606	38,377	37,553	14%	4,648
Mississippi	6,324	6,098	6,102	5,760	5,735	5,675	-10%	-649
Missouri	53,779	52,565	51,898	48,662	45,710	45,706	-15%	-8,073
Montana	2,388	2,399	2,491	2,522	2,630	2,631	10%	243
Nebraska	4,972	5,035	5,248	4,841	5,188	5,618	13%	646
Nevada	9,472	9,660	10,273	10,499	11,723	12,825	35%	3,353
New Hampshire	9,027	7,739	8,169	7,848	7,825	8,007	-11%	-1,020
New Jersey	48,158	48,241	54,454	57,408	59,088	57,262	19%	9,104
New Mexico	8,218	8,096	7,959	8,307	8,145	8,018	-2%	-200
New York	96,958	97,006	97,035	97,656	98,969	97,066	0%	108
North Carolina	35,280	32,724	34,879	35,243	37,860	37,971	8%	2,691
North Dakota	1,685	1,720	1,882	1,821	1,902	1,966	17%	281
Ohio	57,570	58,599	61,397	62,362	63,993	62,475	9%	4,905
Oklahoma	24,169	24,679	26,898	26,188	26,431	25,909	7%	1,740
Oregon	13,743	14,414	15,185	16,063	15,832	15,983	16%	2,240
Pennsylvania	61,226	61,362	63,623	64,161	65,380	65,188	6%	3,962
Puerto Rico	NA	6,847	6,493	6,637	7,194	7,038	NA	NA
Rhode Island	2,834	2,983	2,911	3,173	3,379	3,458	22%	624
South Carolina	8,847	9,698	10,301	10,304	11,040	10,395	18%	1,548
South Dakota	1,752	1,705	1,823	1,784	1,846	1,846	5%	94
Tennessee	45,813	47,574	51,011	52,171	51,726	51,775	13%	5,962
Texas	168,609	172,412	179,936	184,801	186,361	184,175	9%	15,566
Utah	22,551	22,444	22,881	22,912	22,693	23,411	4%	860
Vermont	2,703	2,621	2,730	3,004	3,168	3,030	12%	327
Virginia	35,887	37,388	39,754	41,855	43,517	44,445	24%	8,558
Washington	113,065	132,300	141,295	130,357	118,178	117,629	4%	4,564
West Virginia	3,526	3,362	3,602	3,400	3,472	3,528	0%	2
Wisconsin	13,751	14,137	14,996	15,645	16,343	16,093	17%	2,342
Wyoming	1,017	998	1,166	1,042	1,164	1,164	14%	147

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION EMPLOYMENT PER 1,000 WORKERS

## EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY PER 1,000 WORKERS BY STATE, 1996 - 2001

	1996	1997	1998	1999	2000	2001	% Change 1996-2001	# Change 1996-2001
United States	16.1	16.2	16.4	16.2	15.8	15.6	-3%	-0.4
Alabama	11.4	11.0	11.0	11.8	12.3	12.5	10%	1.1
Alaska	29.7	32.1	35.4	36.6	35.6	35.3	19%	5.6
Arizona	30.0	30.1	30.8	31.1	31.1	30.7	2%	0.7
Arkansas	9.1	9.0	9.6	10.1	10.4	10.5	16%	1.4
California	23.4	22.8	22.7	21.7	20.0	19.4	-17%	-4.0
Colorado	18.9	19.6	18.8	18.4	17.8	17.2	-9%	-1.6
Connecticut	30.7	30.2	30.3	28.8	27.1	27.5	-10%	-3.2
Delaware	3.7	3.7	4.1	4.0	4.0	4.4	19%	0.7
District of Columbia	5.1	3.5	2.4	2.5	2.0	1.7	-66%	-3.3
Florida	17.5	17.4	17.5	16.9	16.4	15.9	-9%	-1.6
Georgia	20.7	21.1	22.2	22.0	21.5	21.3	3%	0.6
Hawaii	23.3	23.4	23.7	23.5	24.2	24.2	4%	0.8
Idaho	5.4	5.4	5.5	5.5	5.5	5.6	3%	0.2
Illinois	13.7	13.3	13.9	14.1	14.4	15.0	10%	1.4
Indiana	10.0	11.1	11.8	12.0	12.2	12.4	23%	2.3
Iowa	4.9	4.8	4.9	5.0	4.8	4.5	-8%	-0.4
Kansas	37.9	41.8	44.8	44.1	42.5	43.3	14%	5.3
Kentucky	18.3	18.4	19.2	19.2	20.5	20.6	13%	2.4
Louisiana	6.0	6.1	6.3	6.2	6.2	6.2	3%	0.2
Maine	4.1	4.0	4.3	4.3	4.2	4.0	-3%	-0.1
Maryland	16.6	16.3	15.9	15.5	15.6	15.4	-8%	-1.3
Massachusetts	15.2	14.8	14.9	14.2	13.9	13.4	-12%	-1.8
Michigan	8.4	8.2	8.7	8.7	8.7	8.8	6%	0.5
Minnesota	13.9	14.3	14.7	14.7	14.7	14.4	4%	0.5
Mississippi	5.9	5.6	5.5	5.1	5.0	5.1	-14%	-0.8
Missouri	21.5	20.6	19.9	18.4	17.1	17.2	-20%	-4.4
Montana	6.8	6.8	6.8	6.8	6.9	6.9	1%	0.0
Nebraska	6.1	6.1	6.2	5.6	5.9	6.4	4%	0.2
Nevada	11.3	10.9	11.1	10.8	11.5	12.3	9%	1.0
New Hampshire	16.7	13.9	14.2	13.3	12.9	13.1	-21%	-3.6
New Jersey	13.6	13.4	14.7	15.1	15.2	14.7	8%	1.0
New Mexico	12.2	11.8	11.5	11.9	11.4	11.0	-10%	-1.2
New York	12.4	12.2	12.0	11.8	11.7	11.5	-8%	-1.0
North Carolina	10.0	9.0	9.4	9.3	9.8	9.9	-1%	-0.1
North Dakota	5.8	5.8	6.2	6.0	6.2	6.3	9%	0.5
Ohio	11.1	11.1	11.4	11.4	11.6	11.4	3%	0.4
Oklahoma	18.3	18.1	19.1	18.4	18.2	17.6	-4%	-0.7
Oregon	9.4	9.5	9.8	10.2	9.8	10.0	7%	0.6
Pennsylvania	11.8	11.6	11.9	11.8	11.8	11.7	-1%	-0.1
Puerto Rico	NA	7.0	6.6	6.6	7.0	7.0	NA	NA
Rhode Island	6.5	6.8	6.5	6.9	7.2	7.4	13%	0.8
South Carolina	5.4	5.7	5.9	5.7	6.1	5.8	8%	0.4
South Dakota	5.3	5.0	5.3	5.0	5.1	5.0	-4%	-0.2
Tennessee	18.5	18.9	19.8	19.9	19.4	19.5	5%	1.0
Texas	20.8	20.3	20.4	20.5	20.1	19.7	-5%	-1.1
Utah	24.4	23.3	23.0	22.5	21.7	21.2	-13%	-3.2
Vermont	10.0	9.6	9.7	10.4	10.7	10.2	2%	0.2
Virginia	11.7	11.8	12.3	12.6	12.7	12.9	11%	1.3
Washington	47.1	52.7	54.5	49.3	43.6	43.7	-7%	-3.4
West Virginia	5.3	5.0	5.3	5.0	5.1	5.1	-3%	-0.2
Wisconsin	5.4	5.5	5.7	5.8	6.0	5.9	8%	0.4
Wyoming	4.8	4.6	5.3	4.6	5.0	4.9	3%	0.2

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION ANNUAL AVERAGE WAGE BY STATE

## ANNUAL AVERAGE WAGES IN THE AEROSPACE AND AVIATION INDUSTRY BY STATE, 1996 - 2000

(adjusted for inflation to 2000 dollars)

	1996	1997	1998	1999	2000	% Change 1996-2000	# Change 1996-2000
United States	\$45,479	\$46,656	\$47,214	\$48,123	\$47,673	5%	\$2,194
Alabama	\$43,269	\$42,799	\$43,122	\$43,487	\$43,170	0%	-\$99
Alaska	\$39,404	\$40,898	\$42,543	\$42,123	\$41,544	5%	\$2,140
Arizona	\$45,613	\$47,374	\$48,416	\$50,062	\$49,556	9%	\$3,943
Arkansas	\$30,673	\$30,979	\$31,652	\$33,619	\$32,966	7%	\$2,293
California	\$51,814	\$53,167	\$53,972	\$53,776	\$53,909	4%	\$2,095
Colorado	\$47,059	\$46,348	\$47,977	\$48,292	\$48,487	3%	\$1,428
Connecticut	\$53,856	\$57,209	\$56,462	\$59,747	\$60,976	13%	\$7,120
Delaware	\$36,534	\$38,077	\$38,783	\$40,572	\$42,943	18%	\$6,409
District of Columbia	\$62,489	\$65,928	\$53,731	\$67,737	\$64,588	3%	\$2,098
Florida	\$40,138	\$41,113	\$41,702	\$42,345	\$41,383	3%	\$1,245
Georgia	\$48,757	\$49,397	\$50,875	\$52,711	\$52,413	7%	\$3,656
Hawaii	\$39,901	\$42,064	\$42,911	\$42,221	\$41,390	4%	\$1,489
Idaho	\$27,742	\$28,170	\$28,859	\$29,331	\$29,624	7%	\$1,883
Illinois	\$40,064	\$41,658	\$40,901	\$43,196	\$41,285	3%	\$1,220
Indiana	\$36,811	\$39,080	\$39,299	\$40,031	\$39,132	6%	\$2,321
Iowa	\$28,490	\$29,316	\$30,015	\$31,505	\$31,043	9%	\$2,553
Kansas	\$47,416	\$47,770	\$47,219	\$47,922	\$47,429	0%	\$13
Kentucky	\$38,774	\$40,233	\$43,355	\$46,277	\$45,842	18%	\$7,069
Louisiana	\$35,283	\$35,288	\$35,859	\$36,451	\$35,725	1%	\$441
Maine	\$29,347	\$29,940	\$30,337	\$31,115	\$30,503	4%	\$1,155
Maryland	\$52,843	\$55,232	\$57,157	\$56,283	\$55,242	5%	\$2,398
Massachusetts	\$47,346	\$49,113	\$49,550	\$50,684	\$49,820	5%	\$2,474
Michigan	\$41,249	\$43,516	\$43,211	\$44,928	\$44,232	7%	\$2,982
Minnesota	\$44,059	\$48,118	\$49,254	\$48,476	\$48,413	10%	\$4,353
Mississippi	\$33,185	\$33,762	\$34,048	\$34,083	\$33,438	1%	\$253
Missouri	\$45,649	\$44,567	\$45,446	\$46,172	\$44,743	-2%	-\$906
Montana	\$28,636	\$28,532	\$28,917	\$29,694	\$28,209	-1%	-\$428
Nebraska	\$32,636	\$31,570	\$32,627	\$34,587	\$33,912	4%	\$1,276
Nevada	\$28,019	\$27,161	\$28,785	\$30,999	\$30,311	8%	\$2,291
New Hampshire	\$50,658	\$52,681	\$51,395	\$53,525	\$52,665	4%	\$2,007
New Jersey	\$40,111	\$41,751	\$43,871	\$47,428	\$47,742	19%	\$7,631
New Mexico	\$35,307	\$35,322	\$36,796	\$39,782	\$39,503	12%	\$4,196
New York	\$45,869	\$43,701	\$44,010	\$44,934	\$44,647	-3%	-\$1,221
North Carolina	\$39,815	\$40,702	\$40,499	\$41,839	\$41,035	3%	\$1,220
North Dakota	\$32,052	\$32,532	\$34,546	\$33,663	\$33,494	5%	\$1,443
Ohio	\$42,227	\$44,162	\$45,185	\$46,972	\$47,082	11%	\$4,854
Oklahoma	\$40,627	\$40,606	\$40,380	\$40,651	\$40,254	-1%	-\$373
Oregon	\$37,344	\$38,232	\$38,749	\$39,312	\$38,764	4%	\$1,420
Pennsylvania	\$45,503	\$46,635	\$46,482	\$47,303	\$46,649	3%	\$1,146
Puerto Rico	NA	\$23,925	\$24,562	\$24,517	\$24,015	NA	NA
Rhode Island	\$37,956	\$38,140	\$40,042	\$41,569	\$41,689	10%	\$3,733
South Carolina	\$32,403	\$33,510	\$34,018	\$35,783	\$35,065	8%	\$2,662
South Dakota	\$28,234	\$29,210	\$28,941	\$30,681	\$29,683	5%	\$1,450
Tennessee	\$39,386	\$41,091	\$42,737	\$43,597	\$44,732	14%	\$5,346
Texas	\$46,091	\$47,358	\$49,016	\$48,821	\$48,332	5%	\$2,241
Utah	\$40,507	\$41,046	\$41,776	\$41,988	\$41,427	2%	\$921
Vermont	\$39,632	\$40,709	\$42,097	\$42,487	\$43,247	9%	\$3,615
Virginia	\$43,834	\$45,583	\$47,535	\$46,712	\$46,300	6%	\$2,466
Washington	\$55,079	\$54,669	\$53,963	\$56,232	\$57,098	4%	\$2,019
West Virginia	\$33,182	\$34,704	\$35,282	\$36,023	\$35,480	7%	\$2,297
Wisconsin	\$33,614	\$34,167	\$34,367	\$36,360	\$34,930	4%	\$1,316
Wyoming	\$29,741	\$28,422	\$31,357	\$29,829	\$32,793	10%	\$3,052

2000 wage data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION ANNUAL PAYROLL BY STATE

## ANNUAL PAYROLL IN THE AEROSPACE AND AVIATION INDUSTRY BY STATE, 1996 - 2000

(adjusted for inflation to millions of 2000 dollars)

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	% Change 1996-2000	# Change 1996-2000
United States	\$86,247	\$91,275	\$96,352	\$99,171	\$98,095	14%	\$11,847
Alabama	\$882	\$860	\$883	\$961	\$999	13%	\$117
Alaska	\$300	\$344	\$403	\$415	\$408	36%	\$108
Arizona	\$2,595	\$2,816	\$3,095	\$3,349	\$3,427	32%	\$831
Arkansas	\$294	\$300	\$333	\$379	\$387	31%	\$93
California	\$15,962	\$16,447	\$17,131	\$16,777	\$16,072	1%	\$109
Colorado	\$1,662	\$1,771	\$1,827	\$1,873	\$1,887	13%	\$224
Connecticut	\$2,590	\$2,758	\$2,782	\$2,847	\$2,771	7%	\$181
Delaware	\$50	\$54	\$63	\$65	\$70	39%	\$20
District of Columbia	\$193	\$137	\$77	\$105	\$82	-58%	-\$111
Florida	\$4,355	\$4,572	\$4,843	\$4,900	\$4,790	10%	\$434
Georgia	\$3,509	\$3,717	\$4,140	\$4,393	\$4,383	25%	\$874
Hawaii	\$496	\$526	\$544	\$533	\$555	12%	\$59
Idaho	\$74	\$77	\$84	\$88	\$91	23%	\$17
Illinois	\$3,052	\$3,142	\$3,285	\$3,553	\$3,532	16%	\$480
Indiana	\$1,016	\$1,213	\$1,319	\$1,394	\$1,405	38%	\$389
Iowa	\$188	\$192	\$208	\$226	\$216	15%	\$28
Kansas	\$2,160	\$2,480	\$2,712	\$2,748	\$2,648	23%	\$488
Kentucky	\$1,144	\$1,227	\$1,410	\$1,541	\$1,656	45%	\$511
Louisiana	\$374	\$385	\$419	\$417	\$416	11%	\$42
Maine	\$65	\$65	\$72	\$77	\$75	16%	\$10
Maryland	\$1,912	\$2,004	\$2,079	\$2,044	\$2,079	9%	\$167
Massachusetts	\$2,143	\$2,213	\$2,310	\$2,301	\$2,264	6%	\$121
Michigan	\$1,474	\$1,556	\$1,651	\$1,757	\$1,768	20%	\$293
Minnesota	\$1,450	\$1,664	\$1,806	\$1,823	\$1,858	28%	\$408
Mississippi	\$210	\$206	\$208	\$196	\$192	-9%	-\$18
Missouri	\$2,455	\$2,343	\$2,359	\$2,247	\$2,045	-17%	-\$410
Montana	\$68	\$68	\$72	\$75	\$74	8%	\$6
Nebraska	\$162	\$159	\$171	\$167	\$176	8%	\$14
Nevada	\$265	\$262	\$296	\$325	\$355	34%	\$90
New Hampshire	\$457	\$408	\$420	\$420	\$412	-10%	-\$45
New Jersey	\$1,932	\$2,014	\$2,389	\$2,723	\$2,821	46%	\$889
New Mexico	\$290	\$286	\$293	\$330	\$322	11%	\$32
New York	\$4,447	\$4,239	\$4,270	\$4,388	\$4,419	-1%	-\$29
North Carolina	\$1,405	\$1,332	\$1,413	\$1,475	\$1,554	11%	\$149
North Dakota	\$54	\$56	\$65	\$61	\$64	18%	\$10
Ohio	\$2,431	\$2,588	\$2,774	\$2,929	\$3,013	24%	\$582
Oklahoma	\$982	\$1,002	\$1,086	\$1,065	\$1,064	8%	\$82
Oregon	\$513	\$551	\$588	\$631	\$614	20%	\$100
Pennsylvania	\$2,786	\$2,862	\$2,957	\$3,035	\$3,050	9%	\$264
Puerto Rico	NA	\$164	\$159	\$163	\$173	NA	NA
Rhode Island	\$108	\$114	\$117	\$132	\$141	31%	\$33
South Carolina	\$287	\$325	\$350	\$369	\$387	35%	\$100
South Dakota	\$49	\$50	\$53	\$55	\$55	11%	\$5
Tennessee	\$1,804	\$1,955	\$2,180	\$2,274	\$2,314	28%	\$509
Texas	\$7,771	\$8,165	\$8,820	\$9,022	\$9,007	16%	\$1,236
Utah	\$913	\$921	\$956	\$962	\$940	3%	\$27
Vermont	\$107	\$107	\$115	\$128	\$137	28%	\$30
Virginia	\$1,573	\$1,704	\$1,890	\$1,955	\$2,015	28%	\$442
Washington	\$6,228	\$7,233	\$7,625	\$7,330	\$6,748	8%	\$520
West Virginia	\$117	\$117	\$127	\$122	\$123	5%	\$6
Wisconsin	\$462	\$483	\$515	\$569	\$571	24%	\$109
Wyoming	\$30	\$28	\$37	\$31	\$38	26%	\$8

2000 payroll data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION ESTABLISHMENTS BY STATE

## ESTABLISHMENTS IN THE AEROSPACE AND AVIATION INDUSTRY BY STATE, 1996 - 2000

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	% Change 1996-2000	# Change 1996-2000
United States	20,256	20,745	21,434	21,747	21,852	8%	1,596
Alabama	237	243	248	256	262	11%	25
Alaska	311	318	356	369	344	11%	33
Arizona	535	561	564	548	571	7%	36
Arkansas	237	230	247	250	251	6%	14
California	3,145	3,067	3,117	3,090	2,843	-10%	-302
Colorado	398	426	435	447	483	21%	85
Connecticut	378	392	407	400	391	3%	13
Delaware	41	42	54	57	54	32%	13
District of Columbia	88	86	83	87	79	-10%	-9
Florida	1,523	1,595	1,697	1,649	1,620	6%	97
Georgia	469	486	497	521	530	13%	61
Hawaii	159	160	171	169	180	13%	21
Idaho	162	168	167	167	177	9%	15
Illinois	518	547	602	604	608	17%	90
Indiana	331	318	325	343	355	7%	24
Iowa	199	201	201	197	194	-3%	-5
Kansas	300	307	338	329	352	17%	52
Kentucky	206	231	242	252	258	25%	52
Louisiana	264	267	278	293	290	10%	26
Maine	89	89	97	98	98	10%	9
Maryland	308	304	338	340	374	21%	66
Massachusetts	383	384	398	390	403	5%	20
Michigan	495	515	527	554	578	17%	83
Minnesota	268	283	306	305	334	25%	66
Mississippi	159	153	138	144	152	-4%	-7
Missouri	389	384	390	394	404	4%	15
Montana	146	157	153	152	163	12%	17
Nebraska	129	134	137	135	153	19%	24
Nevada	208	196	224	207	226	9%	18
New Hampshire	119	119	123	126	135	13%	16
New Jersey	416	437	458	491	473	14%	57
New Mexico	188	192	198	195	199	6%	11
New York	1,159	1,172	1,160	1,186	1,223	6%	64
North Carolina	349	350	388	384	410	17%	61
North Dakota	78	86	87	84	80	3%	2
Ohio	601	594	591	587	613	2%	12
Oklahoma	361	311	333	348	354	-2%	-7
Oregon	277	301	314	316	290	5%	13
Pennsylvania	543	505	604	605	636	17%	93
Puerto Rico	NA	120	119	133	132	NA	NA
Rhode Island	52	56	58	57	60	15%	8
South Carolina	229	242	260	273	252	10%	23
South Dakota	99	98	99	93	92	-7%	-7
Tennessee	324	295	324	334	359	11%	35
Texas	1,476	1,553	1,597	1,669	1,679	14%	203
Utah	188	188	190	202	220	17%	32
Vermont	44	50	48	55	60	36%	16
Virginia	439	459	513	496	506	15%	67
Washington	635	664	651	664	666	5%	31
West Virginia	105	100	110	108	106	1%	1
Wisconsin	228	244	252	250	255	12%	27
Wyoming	61	72	90	80	82	34%	21

2000 establishment data are the most recent available.

Source: U.S. Bureau of Labor Statistics



# AEROSPACE AND AVIATION EMPLOYMENT AND WAGE RANKINGS

## AEROSPACE AND AVIATION EMPLOYMENT, 2001

Rank	State	Employment
	United States	2,034,587
1.	California	293,701
2.	Texas	184,175
3.	Washington	117,629
4.	Florida	114,274
5.	New York	97,066
6.	Illinois	88,709
7.	Georgia	83,006
8.	Arizona	68,987
9.	Pennsylvania	65,188
10.	Ohio	62,475
11.	New Jersey	57,262
12.	Kansas	57,103
13.	Tennessee	51,775
14.	Connecticut	45,827
15.	Missouri	45,706
16.	Virginia	44,445
17.	Massachusetts	44,086
18.	Michigan	39,757
19.	Colorado	38,040
20.	North Carolina	37,971
21.	Minnesota	37,553
22.	Maryland	37,346
23.	Kentucky	36,173
24.	Indiana	35,557
25.	Oklahoma	25,909
26.	Utah	23,411
27.	Alabama	23,347
28.	Wisconsin	16,093
29.	Oregon	15,983
30.	Hawaii	13,412
31.	Nevada	12,825
32.	Arkansas	11,828
33.	Louisiana	11,671
34.	South Carolina	10,395
35.	Alaska	9,944
36.	New Mexico	8,018
37.	New Hampshire	8,007
38.	Puerto Rico	7,038
39.	Iowa	6,463
40.	Mississippi	5,675
41.	Nebraska	5,618
42.	West Virginia	3,528
43.	Rhode Island	3,458
44.	Idaho	3,207
45.	Vermont	3,030
46.	Montana	2,631
47.	Maine	2,384
48.	North Dakota	1,966
49.	South Dakota	1,846
50.	Delaware	1,807
51.	Wyoming	1,164
52.	District of Columbia	1,092

## AEROSPACE AND AVIATION WAGES, 2000

Rank	State	Wages
	United States	\$47,673
1.	District of Columbia	\$64,588
2.	Connecticut	\$60,976
3.	Washington	\$57,098
4.	Maryland	\$55,242
5.	California	\$53,909
6.	New Hampshire	\$52,665
7.	Georgia	\$52,413
8.	Massachusetts	\$49,820
9.	Arizona	\$49,556
10.	Colorado	\$48,487
11.	Minnesota	\$48,413
12.	Texas	\$48,332
13.	New Jersey	\$47,742
14.	Kansas	\$47,429
15.	Ohio	\$47,082
16.	Pennsylvania	\$46,649
17.	Virginia	\$46,300
18.	Kentucky	\$45,842
19.	Missouri	\$44,743
20.	Tennessee	\$44,732
21.	New York	\$44,647
22.	Michigan	\$44,232
23.	Vermont	\$43,247
24.	Alabama	\$43,170
25.	Delaware	\$42,943
26.	Rhode Island	\$41,689
27.	Alaska	\$41,544
28.	Utah	\$41,427
29.	Hawaii	\$41,390
30.	Florida	\$41,383
31.	Illinois	\$41,285
32.	North Carolina	\$41,035
33.	Oklahoma	\$40,254
34.	New Mexico	\$39,503
35.	Indiana	\$39,132
36.	Oregon	\$38,764
37.	Louisiana	\$35,725
38.	West Virginia	\$35,480
39.	South Carolina	\$35,065
40.	Wisconsin	\$34,930
41.	Nebraska	\$33,912
42.	North Dakota	\$33,494
43.	Mississippi	\$33,438
44.	Arkansas	\$32,966
45.	Wyoming	\$32,793
46.	Iowa	\$31,043
47.	Maine	\$30,503
48.	Nevada	\$30,311
49.	South Dakota	\$29,683
50.	Idaho	\$29,624
51.	Montana	\$28,209
52.	Puerto Rico	\$24,015

2001 data are preliminary. 2000 wage data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION EMPLOYMENT RANKINGS

## EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY RANKED BY STATE, 1996 - 2001

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>
California	1.	1.	1.	1.	1.	1.
Texas	2.	2.	2.	2.	2.	2.
Washington	3.	3.	3.	3.	3.	3.
Florida	4.	4.	4.	4.	4.	4.
New York	5.	5.	5.	5.	5.	5.
Illinois	6.	6.	7.	7.	6.	6.
Georgia	7.	7.	6.	6.	7.	7.
Arizona	10.	9.	8.	8.	8.	8.
Pennsylvania	8.	8.	9.	9.	9.	9.
Ohio	9.	10.	10.	10.	10.	10.
New Jersey	12.	13.	12.	11.	11.	11.
Kansas	15.	12.	11.	12.	12.	12.
Tennessee	14.	15.	14.	13.	13.	13.
Connecticut	13.	14.	15.	15.	16.	14.
Missouri	11.	11.	13.	14.	14.	15.
Virginia	18.	18.	17.	17.	17.	16.
Massachusetts	16.	16.	16.	16.	15.	17.
Michigan	19.	20.	18.	18.	18.	18.
Colorado	20.	17.	19.	19.	19.	19.
North Carolina	21.	22.	22.	22.	21.	20.
Minnesota	22.	21.	20.	20.	20.	21.
Maryland	17.	19.	21.	21.	22.	22.
Kentucky	23.	24.	24.	24.	23.	23.
Indiana	24.	23.	23.	23.	24.	24.
Oklahoma	25.	25.	25.	25.	25.	25.
Utah	26.	26.	26.	26.	27.	26.
Alabama	27.	27.	27.	27.	26.	27.
Wisconsin	28.	29.	29.	29.	28.	28.
Oregon	29.	28.	28.	28.	29.	29.
Hawaii	30.	30.	30.	30.	30.	30.
Nevada	33.	34.	34.	33.	32.	31.
Arkansas	32.	33.	32.	32.	31.	32.
Louisiana	31.	31.	31.	31.	33.	33.
South Carolina	35.	32.	33.	34.	34.	34.
Alaska	37.	35.	35.	35.	35.	35.
New Mexico	36.	36.	37.	36.	36.	36.
New Hampshire	34.	37.	36.	37.	37.	37.
Puerto Rico	NA	38.	39.	39.	38.	38.
Iowa	38.	39.	38.	38.	39.	39.
Mississippi	39.	40.	40.	40.	40.	40.
Nebraska	40.	41.	41.	41.	41.	41.
West Virginia	41.	42.	42.	42.	42.	42.
Rhode Island	43.	43.	43.	43.	43.	43.
Idaho	45.	44.	44.	45.	45.	44.
Vermont	44.	45.	45.	44.	44.	45.
Montana	46.	46.	46.	46.	46.	46.
Maine	47.	47.	47.	47.	47.	47.
North Dakota	49.	49.	48.	48.	48.	48.
South Dakota	48.	50.	49.	49.	49.	49.
Delaware	50.	51.	50.	50.	50.	50.
Wyoming	51.	52.	52.	52.	52.	51.
District of Columbia	42.	48.	51.	51.	51.	52.

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION PAYROLL AND ESTABLISHMENTS RANKINGS

## AEROSPACE AND AVIATION PAYROLL, 2000

Rank	State	Payroll
	United States	\$98,094,643,859
1.	California	\$16,071,517,609
2.	Texas	\$9,007,214,015
3.	Washington	\$6,747,684,777
4.	Florida	\$4,789,517,280
5.	New York	\$4,418,706,102
6.	Georgia	\$4,382,765,485
7.	Illinois	\$3,532,198,403
8.	Arizona	\$3,426,504,080
9.	Pennsylvania	\$3,049,915,716
10.	Ohio	\$3,012,891,224
11.	New Jersey	\$2,821,000,205
12.	Connecticut	\$2,771,047,163
13.	Kansas	\$2,647,833,633
14.	Tennessee	\$2,313,799,452
15.	Massachusetts	\$2,264,263,234
16.	Maryland	\$2,078,962,657
17.	Missouri	\$2,045,183,207
18.	Virginia	\$2,014,850,095
19.	Colorado	\$1,886,707,918
20.	Minnesota	\$1,857,935,129
21.	Michigan	\$1,767,851,436
22.	Kentucky	\$1,655,913,402
23.	North Carolina	\$1,553,590,843
24.	Indiana	\$1,405,023,566
25.	Oklahoma	\$1,063,957,686
26.	Alabama	\$999,377,279
27.	Utah	\$940,105,288
28.	Oregon	\$613,707,423
29.	Wisconsin	\$570,858,898
30.	Hawaii	\$555,121,649
31.	Louisiana	\$416,262,614
32.	New Hampshire	\$412,104,327
33.	Alaska	\$408,251,704
34.	South Carolina	\$387,116,983
35.	Arkansas	\$387,055,565
36.	Nevada	\$355,330,619
37.	New Mexico	\$321,752,582
38.	Iowa	\$216,248,887
39.	Mississippi	\$191,766,582
40.	Nebraska	\$175,936,530
41.	Puerto Rico	\$172,765,171
42.	Rhode Island	\$140,866,599
43.	Vermont	\$137,006,056
44.	West Virginia	\$123,186,269
45.	Idaho	\$91,331,766
46.	District of Columbia	\$81,574,178
47.	Maine	\$75,006,681
48.	Montana	\$74,188,436
49.	Delaware	\$69,652,983
50.	North Dakota	\$63,706,460
51.	South Dakota	\$54,795,575
52.	Wyoming	\$38,171,551

## AEROSPACE AND AVIATION ESTABLISHMENTS, 2000

Rank	State	Establishments
	United States	21,852
1.	California	2,843
2.	Texas	1,679
3.	Florida	1,620
4.	New York	1,223
5.	Washington	666
6.	Pennsylvania	636
7.	Ohio	613
8.	Illinois	608
9.	Michigan	578
10.	Arizona	571
11.	Georgia	530
12.	Virginia	506
13.	Colorado	483
14.	New Jersey	473
15.	North Carolina	410
16.	Missouri	404
17.	Massachusetts	403
18.	Connecticut	391
19.	Maryland	374
20.	Tennessee	359
21.	Indiana	355
22.	Oklahoma	354
23.	Kansas	352
24.	Alaska	344
25.	Minnesota	334
26.	Louisiana	290
26.	Oregon	290
28.	Alabama	262
29.	Kentucky	258
30.	Wisconsin	255
31.	South Carolina	252
32.	Arkansas	251
33.	Nevada	226
34.	Utah	220
35.	New Mexico	199
36.	Iowa	194
37.	Hawaii	180
38.	Idaho	177
39.	Montana	163
40.	Nebraska	153
41.	Mississippi	152
42.	New Hampshire	135
43.	Puerto Rico	132
44.	West Virginia	106
45.	Maine	98
46.	South Dakota	92
47.	Wyoming	82
48.	North Dakota	80
49.	District of Columbia	79
50.	Rhode Island	60
50.	Vermont	60
52.	Delaware	54

2000 payroll and establishment data are the most recent available.

Source: U.S. Bureau of Labor Statistics

## AEROSPACE AND AVIATION RANKINGS

### AEROSPACE AND AVIATION EMPLOYMENT PER 1,000 WORKERS IN ALL INDUSTRIES 2001

Rank	State	Employment Concentration
	United States	15.6
1.	Washington	43.7
2.	Kansas	43.3
3.	Alaska	35.3
4.	Arizona	30.7
5.	Connecticut	27.5
6.	Hawaii	24.2
7.	Utah	22.3
8.	Georgia	21.3
9.	Kentucky	20.6
10.	Texas	19.7
11.	Tennessee	19.5
12.	California	19.4
13.	Oklahoma	17.6
14.	Colorado	17.2
15.	Missouri	17.2
16.	Florida	15.9
17.	Maryland	15.4
18.	Illinois	15.0
19.	New Jersey	14.7
20.	Minnesota	14.4
21.	Massachusetts	13.4
22.	New Hampshire	13.1
23.	Virginia	12.9
24.	Alabama	12.5
25.	Indiana	12.4
26.	Nevada	12.3
27.	Pennsylvania	11.7
28.	New York	11.5
29.	Ohio	11.4
30.	New Mexico	11.0
31.	Arkansas	10.5
32.	Vermont	10.2
33.	Oregon	10.0
34.	North Carolina	9.9
35.	Michigan	8.8
36.	Rhode Island	7.4
37.	Puerto Rico	7.0
38.	Montana	6.9
39.	Nebraska	6.4
40.	North Dakota	6.3
41.	Louisiana	6.2
42.	Wisconsin	5.9
43.	South Carolina	5.8
44.	Idaho	5.6
45.	West Virginia	5.1
46.	Mississippi	5.1
47.	South Dakota	5.0
48.	Wyoming	4.9
49.	Iowa	4.5
50.	Delaware	4.4
51.	Maine	4.0
52.	District of Columbia	1.7

### AEROSPACE AND AVIATION ANNUAL WAGES VS. ANNUAL AVERAGE WAGES FOR ALL INDUSTRIES 2000

Rank	State	Aerospace & Aviation	All Industries	Percent Difference
	United States	\$47,673	\$35,296	35.1%
1.	Kansas	\$47,429	\$29,357	61.6%
2.	Kentucky	\$45,842	\$28,829	59.0%
3.	Washington	\$57,098	\$37,059	54.1%
4.	Georgia	\$52,413	\$34,182	53.3%
5.	Arizona	\$49,556	\$32,606	52.0%
6.	Maryland	\$55,242	\$36,373	51.9%
7.	New Hampshire	\$52,665	\$34,731	51.6%
8.	Vermont	\$43,247	\$28,920	49.5%
9.	Oklahoma	\$40,254	\$26,980	49.2%
10.	Alabama	\$43,170	\$29,037	48.7%
11.	Tennessee	\$44,732	\$30,558	46.4%
12.	Ohio	\$47,082	\$32,510	44.8%
13.	New Mexico	\$39,503	\$27,498	43.7%
14.	Missouri	\$44,743	\$31,386	42.6%
15.	Utah	\$41,427	\$29,226	41.7%
16.	Texas	\$48,332	\$34,948	38.3%
17.	Pennsylvania	\$46,649	\$33,999	37.2%
18.	Minnesota	\$48,413	\$35,418	36.7%
19.	North Dakota	\$33,494	\$24,678	35.7%
20.	Florida	\$41,383	\$30,549	35.5%
21.	Hawaii	\$41,390	\$30,629	35.1%
22.	Connecticut	\$60,976	\$45,445	34.2%
23.	Mississippi	\$33,438	\$25,197	32.7%
24.	North Carolina	\$41,035	\$31,077	32.0%
25.	West Virginia	\$35,480	\$26,887	32.0%
26.	Virginia	\$46,300	\$35,151	31.7%
27.	California	\$53,909	\$41,194	30.9%
28.	Colorado	\$48,487	\$37,167	30.5%
29.	Louisiana	\$35,725	\$27,877	28.1%
30.	Rhode Island	\$41,689	\$32,618	27.8%
31.	Puerto Rico	\$24,015	\$18,796	27.8%
32.	Indiana	\$39,132	\$31,015	26.2%
33.	Arkansas	\$32,966	\$26,307	25.3%
34.	South Carolina	\$35,065	\$28,172	24.5%
35.	Nebraska	\$33,912	\$27,662	22.6%
36.	Wyoming	\$32,793	\$26,837	22.2%
37.	District of Columbia	\$64,588	\$53,018	21.8%
38.	South Dakota	\$29,683	\$24,803	19.7%
39.	Michigan	\$44,232	\$37,016	19.5%
40.	Oregon	\$38,764	\$32,765	18.3%
41.	Alaska	\$41,544	\$35,124	18.3%
42.	Delaware	\$42,943	\$36,677	17.1%
43.	Montana	\$28,209	\$24,264	16.3%
44.	Wisconsin	\$34,930	\$30,697	13.8%
45.	Massachusetts	\$49,820	\$44,326	12.4%
46.	Iowa	\$31,043	\$27,928	11.2%
47.	Maine	\$30,503	\$27,664	10.3%
48.	New Jersey	\$47,742	\$43,691	9.3%
49.	Illinois	\$41,285	\$38,044	8.5%
50.	Idaho	\$29,624	\$27,709	6.9%
51.	New York	\$44,647	\$44,942	-0.7%
52.	Nevada	\$30,311	\$32,276	-6.1%

2001 data are preliminary. 2000 wage data are the most recent available.

Source: U.S. Bureau of Labor Statistics

## AEROSPACE AND AVIATION EMPLOYMENT CHANGE RANKINGS

### AEROSPACE AND AVIATION EMPLOYMENT PERCENT CHANGE 1996 - 2001

Rank	State	Percent Change 1996-2001
	United States	7.3%
	U.S. Total - All Industries	10.3%
1.	Nevada	35.4%
2.	Delaware	32.0%
3.	Alaska	30.4%
4.	Indiana	28.8%
5.	Kansas	25.4%
6.	Virginia	23.8%
7.	Arkansas	23.2%
8.	Kentucky	22.6%
9.	Rhode Island	22.0%
10.	Arizona	21.2%
11.	Idaho	19.9%
12.	New Jersey	18.9%
13.	South Carolina	17.5%
14.	Wisconsin	17.0%
15.	North Dakota	16.7%
16.	Illinois	16.5%
17.	Oregon	16.3%
18.	Georgia	15.3%
19.	Alabama	14.5%
20.	Wyoming	14.5%
21.	Minnesota	14.1%
22.	Tennessee	13.0%
23.	Nebraska	13.0%
24.	Vermont	12.1%
25.	Michigan	11.2%
26.	Montana	10.2%
27.	Louisiana	10.0%
28.	Texas	9.2%
29.	Ohio	8.5%
30.	Maine	8.2%
31.	Hawaii	7.8%
32.	Colorado	7.7%
33.	North Carolina	7.6%
34.	Oklahoma	7.2%
35.	Pennsylvania	6.5%
36.	South Dakota	5.3%
37.	Florida	5.3%
38.	Washington	4.0%
39.	Utah	3.8%
40.	Maryland	3.2%
41.	New York	0.1%
42.	West Virginia	0.1%
43.	Iowa	-2.2%
44.	New Mexico	-2.4%
45.	Massachusetts	-2.6%
46.	California	-4.7%
47.	Connecticut	-4.7%
48.	Mississippi	-10.3%
49.	New Hampshire	-11.3%
50.	Missouri	-15.0%
51.	District of Columbia	-64.6%
	Puerto Rico	NA

### AEROSPACE AND AVIATION EMPLOYMENT NUMERIC CHANGE 1996 - 2001

Rank	State	Numeric Change 1996-2001
	United States	138,176
	U.S. Total - All Industries	12,134,493
1.	Texas	15,566
2.	Illinois	12,536
3.	Arizona	12,087
4.	Kansas	11,559
5.	Georgia	11,044
6.	New Jersey	9,104
7.	Virginia	8,558
8.	Indiana	7,952
9.	Kentucky	6,657
10.	Tennessee	5,962
11.	Florida	5,768
12.	Ohio	4,905
13.	Minnesota	4,648
14.	Washington	4,564
15.	Michigan	4,013
16.	Pennsylvania	3,962
17.	Nevada	3,353
18.	Alabama	2,960
19.	Colorado	2,713
20.	North Carolina	2,691
21.	Wisconsin	2,342
22.	Alaska	2,319
23.	Oregon	2,240
24.	Arkansas	2,230
25.	Oklahoma	1,740
26.	South Carolina	1,548
27.	Maryland	1,163
28.	Louisiana	1,058
29.	Hawaii	974
30.	Utah	860
31.	Nebraska	646
32.	Rhode Island	624
33.	Idaho	533
34.	Delaware	438
35.	Vermont	327
36.	North Dakota	281
37.	Montana	243
38.	Maine	180
39.	Wyoming	147
40.	New York	108
41.	South Dakota	94
42.	West Virginia	2
43.	Iowa	-144
44.	New Mexico	-200
45.	Mississippi	-649
46.	New Hampshire	-1,020
47.	Massachusetts	-1,175
48.	District of Columbia	-1,990
49.	Connecticut	-2,262
50.	Missouri	-8,073
51.	California	-14,371
	Puerto Rico	NA

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION ANNUAL AVERAGE WAGE RANKINGS

## AEROSPACE AND AVIATION WAGE PERCENT CHANGE

1996 - 2000

(adjusted for inflation)

Rank	State	Percent Change 1996-2000
	United States	4.82%
	U.S. Total - All Industries	11.10%
1.	New Jersey	19.02%
2.	Kentucky	18.23%
3.	Delaware	17.54%
4.	Tennessee	13.57%
5.	Connecticut	13.22%
6.	New Mexico	11.88%
7.	Ohio	11.50%
8.	Wyoming	10.26%
9.	Minnesota	9.88%
10.	Rhode Island	9.84%
11.	Vermont	9.12%
12.	Iowa	8.96%
13.	Arizona	8.64%
14.	South Carolina	8.21%
15.	Nevada	8.18%
16.	Georgia	7.50%
17.	Arkansas	7.48%
18.	Michigan	7.23%
19.	West Virginia	6.92%
20.	Idaho	6.79%
21.	Indiana	6.30%
22.	Virginia	5.63%
23.	Alaska	5.43%
24.	Massachusetts	5.22%
25.	South Dakota	5.13%
26.	Texas	4.86%
27.	Maryland	4.54%
28.	North Dakota	4.50%
29.	California	4.04%
30.	New Hampshire	3.96%
31.	Maine	3.94%
32.	Wisconsin	3.91%
33.	Nebraska	3.91%
34.	Oregon	3.80%
35.	Hawaii	3.73%
36.	Washington	3.66%
37.	District of Columbia	3.36%
38.	Florida	3.10%
39.	North Carolina	3.06%
40.	Illinois	3.05%
41.	Colorado	3.03%
42.	Pennsylvania	2.52%
43.	Utah	2.27%
44.	Louisiana	1.25%
45.	Mississippi	0.76%
46.	Kansas	0.03%
47.	Alabama	-0.23%
48.	Oklahoma	-0.92%
49.	Montana	-1.49%
50.	Missouri	-1.99%
51.	New York	-2.66%
	Puerto Rico	NA

## AEROSPACE AND AVIATION WAGE NUMERIC CHANGE

1996 - 2000

(adjusted for inflation to 2000 dollars)

Rank	State	Numeric Change 1996-2000
	United States	\$2,194
	U.S. Total - All Industries	\$3,526
1.	New Jersey	\$7,631
2.	Connecticut	\$7,120
3.	Kentucky	\$7,069
4.	Delaware	\$6,409
5.	Tennessee	\$5,346
6.	Ohio	\$4,854
7.	Minnesota	\$4,353
8.	New Mexico	\$4,196
9.	Arizona	\$3,943
10.	Rhode Island	\$3,733
11.	Georgia	\$3,656
12.	Vermont	\$3,615
13.	Wyoming	\$3,052
14.	Michigan	\$2,982
15.	South Carolina	\$2,662
16.	Iowa	\$2,553
17.	Massachusetts	\$2,474
18.	Virginia	\$2,466
19.	Maryland	\$2,398
20.	Indiana	\$2,321
21.	West Virginia	\$2,297
22.	Arkansas	\$2,293
23.	Nevada	\$2,291
24.	Texas	\$2,241
25.	Alaska	\$2,140
26.	District of Columbia	\$2,098
27.	California	\$2,095
28.	Washington	\$2,019
29.	New Hampshire	\$2,007
30.	Idaho	\$1,883
31.	Hawaii	\$1,489
32.	South Dakota	\$1,450
33.	North Dakota	\$1,443
34.	Colorado	\$1,428
35.	Oregon	\$1,420
36.	Wisconsin	\$1,316
37.	Nebraska	\$1,276
38.	Florida	\$1,245
39.	Illinois	\$1,220
40.	North Carolina	\$1,220
41.	Maine	\$1,155
42.	Pennsylvania	\$1,146
43.	Utah	\$921
44.	Louisiana	\$441
45.	Mississippi	\$253
46.	Kansas	\$13
47.	Alabama	-\$99
48.	Oklahoma	-\$373
49.	Montana	-\$428
50.	Missouri	-\$906
51.	New York	-\$1,221
	Puerto Rico	NA

2000 wage data are the most recent available.

Source: U.S. Bureau of Labor Statistics

## AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

### AIRCRAFT AND PARTS MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	462,169
1.	Washington	86,951
2.	California	70,236
3.	Kansas	47,864
4.	Texas	42,276
5.	Connecticut	34,498
6.	Arizona	21,478
7.	Ohio	18,901
8.	Georgia	18,005
9.	Missouri	17,707
10.	Florida	14,465
11.	Pennsylvania	8,068
12.	Indiana	8,015
13.	Alabama	7,142
14.	Oklahoma	6,870
15.	New York	6,370
16.	Arkansas	4,873
17.	Massachusetts	4,838
18.	Michigan	4,723
19.	Tennessee	3,589
20.	Illinois	3,222
21.	Utah	2,638
22.	Oregon	2,581
23.	North Carolina	2,330
24.	New Jersey	2,178
25.	Kentucky	2,000
26.	Virginia	1,980
27.	Louisiana	1,896
28.	Vermont	1,662
29.	West Virginia	1,409
30.	Colorado	1,306
31.	Iowa	949
32.	New Mexico	809
33.	Maryland	784
34.	Minnesota	770
34.	South Carolina	770
36.	Wisconsin	742
37.	North Dakota	619
38.	Nebraska	312
39.	Mississippi	226
40.	Delaware	208
41.	District of Columbia	135
42.	Idaho	119
43.	Montana	82
44.	South Dakota	71
45.	Nevada	40
46.	Alaska	21
47.	New Hampshire	14

### GUIDED MISSILES AND SPACE VEHICLES AND PARTS MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	82,955
1.	California	20,626
2.	Arizona	10,778
3.	Massachusetts	8,750
4.	Florida	8,405
5.	Colorado	6,455
6.	Alabama	4,748
7.	Utah	4,425
8.	Pennsylvania	4,179
9.	Maryland	3,781
10.	Virginia	2,200
11.	Texas	2,033
12.	Washington	800
13.	Georgia	516
14.	Mississippi	346
15.	New Mexico	287
16.	New York	265
17.	Missouri	230

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

## AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

### SEARCH, DETECTION, NAVIGATION, AND GUIDANCE MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	151,124
1.	California	48,095
2.	New York	10,325
3.	Maryland	9,763
4.	New Jersey	8,787
5.	Florida	8,531
6.	Texas	6,525
7.	Arizona	5,738
8.	Massachusetts	4,938
9.	New Hampshire	4,673
10.	Virginia	3,601
11.	Minnesota	3,091
12.	Colorado	2,863
13.	Washington	2,674
14.	Illinois	2,235
15.	Indiana	2,001
16.	New Mexico	1,800
17.	Pennsylvania	1,789
18.	Michigan	1,605
19.	Wisconsin	1,581
20.	Rhode Island	1,200
21.	Kansas	1,176
22.	Missouri	1,114
23.	Connecticut	1,091
24.	Oregon	804
25.	Alabama	758
26.	Utah	620
27.	North Carolina	563
28.	Oklahoma	560
29.	Georgia	402
30.	Arkansas	320
31.	Ohio	198
32.	Idaho	111
33.	Vermont	16
34.	Nebraska	9

### AEROSPACE AND AVIATION MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	696,248
1.	California	138,956
2.	Washington	90,425
3.	Texas	50,835
4.	Kansas	49,040
5.	Arizona	37,994
6.	Connecticut	35,589
7.	Florida	31,401
8.	Ohio	19,099
9.	Missouri	19,051
10.	Georgia	18,923
11.	Massachusetts	18,526
12.	New York	16,960
13.	Maryland	14,328
14.	Pennsylvania	14,036
15.	Alabama	12,648
16.	New Jersey	10,966
17.	Colorado	10,624
18.	Indiana	10,016
19.	Virginia	7,781
20.	Utah	7,683
21.	Oklahoma	7,430
22.	Michigan	6,328
23.	Illinois	5,457
24.	Arkansas	5,193
25.	New Hampshire	4,687
26.	Minnesota	3,861
27.	Tennessee	3,589
28.	Oregon	3,384
29.	New Mexico	2,896
30.	North Carolina	2,893
31.	Wisconsin	2,323
32.	Kentucky	2,000
33.	Louisiana	1,896
34.	Vermont	1,678
35.	West Virginia	1,409
36.	Rhode Island	1,200
37.	Iowa	949
38.	South Carolina	770
39.	North Dakota	619
40.	Mississippi	572
41.	Nebraska	321
42.	Idaho	230
43.	Delaware	208
44.	District of Columbia	135
45.	Montana	82
46.	South Dakota	71
47.	Nevada	40
48.	Alaska	21

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics



## AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

### TRANSPORT BY AIR EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	1,302,900
1.	California	148,618
2.	Texas	128,554
3.	Illinois	82,232
4.	Florida	79,092
5.	New York	78,915
6.	Georgia	63,726
7.	Pennsylvania	50,476
8.	Tennessee	48,040
9.	New Jersey	45,450
10.	Ohio	41,401
11.	North Carolina	34,906
12.	Kentucky	34,161
13.	Minnesota	33,569
14.	Virginia	33,300
15.	Michigan	33,103
16.	Arizona	30,856
17.	Washington	26,992
18.	Colorado	26,614
19.	Missouri	26,595
20.	Indiana	25,512
21.	Massachusetts	25,045
22.	Oklahoma	18,480
23.	Maryland	18,279
24.	Utah	15,532
25.	Wisconsin	13,744
26.	Hawaii	13,182
27.	Nevada	12,759
28.	Oregon	12,579
29.	Alaska	9,923
30.	Connecticut	9,880
31.	Louisiana	9,691
32.	South Carolina	9,072
33.	Alabama	8,075
34.	Kansas	7,970
35.	Puerto Rico	7,038
36.	Arkansas	6,635
37.	Iowa	5,488
38.	Nebraska	5,256
39.	Mississippi	5,100
40.	New Mexico	5,066
41.	New Hampshire	3,276
42.	Idaho	2,974
43.	Montana	2,546
44.	Maine	2,384
45.	Rhode Island	2,258
46.	West Virginia	2,119
47.	South Dakota	1,775
48.	Delaware	1,548
49.	Vermont	1,353
50.	North Dakota	1,347
51.	Wyoming	1,164
52.	District of Columbia	789

### SATELLITE COMMUNICATIONS EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	18,044
1.	California	3,890
2.	Florida	1,893
3.	Maryland	1,822
4.	Texas	1,748
5.	New York	1,170
6.	Illinois	1,020
7.	New Jersey	846
8.	Colorado	802
9.	Virginia	716
10.	Pennsylvania	676
11.	South Carolina	553
12.	Massachusetts	515
13.	Connecticut	358
14.	Georgia	356
15.	Michigan	325
16.	Hawaii	230
17.	Washington	212
18.	Utah	196
19.	North Carolina	172
20.	Tennessee	145
21.	Arizona	137
22.	Minnesota	123
23.	Kansas	93
24.	Louisiana	74
25.	Missouri	60
26.	District of Columbia	59
27.	Delaware	51
28.	New Hampshire	44
29.	Alabama	43
30.	Nebraska	41
31.	Indiana	29
32.	Iowa	26
32.	Nevada	26
34.	Wisconsin	25
35.	Oregon	19
36.	Kentucky	12
37.	Idaho	3
37.	Montana	3

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

## AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

### SPACE RESEARCH AND TECHNOLOGY EMPLOYMENT, 2001

<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	17,395
1.	Texas	3,039
2.	Maryland	2,917
3.	Virginia	2,648
4.	Alabama	2,581
5.	California	2,236
6.	Ohio	1,975
7.	Florida	1,888
8.	District of Columbia	109
9.	New Mexico	56
10.	New York	20
11.	Louisiana	10
12.	Mississippi	3

### AEROSPACE AND AVIATION SERVICES EMPLOYMENT, 2001

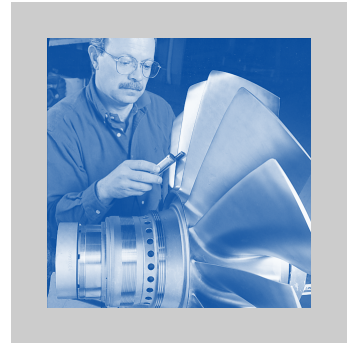
<u>Rank</u>	<u>State</u>	<u>Employment</u>
	United States	1,338,339
1.	California	154,744
2.	Texas	133,341
3.	Illinois	83,252
4.	Florida	82,873
5.	New York	80,105
6.	Georgia	64,082
7.	Pennsylvania	51,152
8.	Tennessee	48,185
9.	New Jersey	46,296
10.	Ohio	43,376
11.	Virginia	36,664
12.	North Carolina	35,078
13.	Kentucky	34,173
14.	Minnesota	33,692
15.	Michigan	33,429
16.	Arizona	30,993
17.	Colorado	27,416
18.	Washington	27,204
19.	Missouri	26,655
20.	Massachusetts	25,560
21.	Indiana	25,541
22.	Maryland	23,018
23.	Oklahoma	18,480
24.	Utah	15,728
25.	Wisconsin	13,770
26.	Hawaii	13,412
27.	Nevada	12,785
28.	Oregon	12,599
29.	Alabama	10,699
30.	Connecticut	10,238
31.	Alaska	9,923
32.	Louisiana	9,775
33.	South Carolina	9,625
34.	Kansas	8,063
35.	Puerto Rico	7,089
36.	Arkansas	6,635
37.	Iowa	5,514
38.	Nebraska	5,297
39.	New Mexico	5,122
40.	Mississippi	5,103
41.	New Hampshire	3,320
42.	Idaho	2,977
43.	Montana	2,549
44.	Maine	2,384
45.	Rhode Island	2,258
46.	West Virginia	2,119
47.	South Dakota	1,775
48.	Delaware	1,599
49.	Vermont	1,353
50.	North Dakota	1,347
51.	Wyoming	1,164
52.	District of Columbia	957

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# TOP METRO AREAS

## METROPOLITAN AREAS OVERVIEW



# METRO KEY FINDINGS

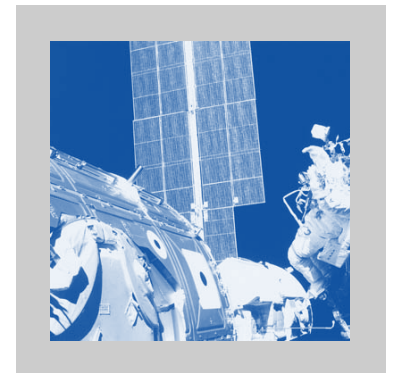
*U.S. Aerospace and Aviation Industry: A State-by-State Analysis* provides statistics on commercial aerospace and aviation industry employment, wages, payroll, and establishments for 10 leading metropolitan areas in the United States. Los Angeles leads the nation by aerospace and aviation industry employment, payroll, and establishments.

## EMPLOYMENT

- ◆ Los Angeles was the nation's leading metropolitan area in aerospace and aviation industry employment in 2001, with 137,100 employees.
- ◆ Seattle ranked second with 111,200 employees in 2001, up from 106,700 in 1996. However, this is down from the 1998 peak, when Seattle had 134,400 aerospace and aviation industry employees.
- ◆ Chicago, Atlanta, and Fort Worth rounded out the top five metropolitan areas by aerospace and aviation industry employment in 2001.
- ◆ Wichita ranked first in aerospace and aviation industry job creation between 1996 and 2001, adding 10,500 jobs to its economic base.
- ◆ Atlanta and Chicago were the second and third fastest growing aerospace and aviation industry metropolitan areas between 1996 and 2001, adding 10,400 and 10,200 jobs, respectively.
- ◆ Los Angeles' aerospace and aviation industry lost the greatest number of jobs between 1996 and 2001, down by 18,000 jobs.
- ◆ Boston followed Los Angeles losing, 2,100 aerospace and aviation jobs during the same period.
- ◆ When controlling for size, the highest concentration of aerospace and aviation industry jobs was in the Wichita metro area, accounting for one out of every five jobs in 2001.
- ◆ Seattle ranked second with one out of every 10 jobs in the aerospace and aviation industry in 2001.

## WAGES

- ◆ Seattle led in aerospace and aviation industry wages with its 111,200 workers earning an annual average wage of \$58,400 in 2000.
- ◆ Los Angeles and Fort Worth ranked second and third with average wages of \$57,800 and \$55,700, respectively, in 2000.
- ◆ Employees in the aerospace and aviation industry in Fort Worth earned an average wage that was 60 percent more than the \$34,800 average wage for the metropolitan area, the highest wage differential of the 10 metro areas examined.
- ◆ Aerospace and aviation industry wages were 57 percent higher in Wichita and 48 percent higher in Los Angeles than the average private sector wage in their respective metropolitan areas in 2000.



# METRO KEY FINDINGS

## PAYROLL

- ◆ Los Angeles, Seattle, and Atlanta led the nation in aerospace and aviation industry payroll in 2000.
- ◆ Atlanta saw their aerospace and aviation industry payroll increase by nearly \$800 million between 1996 and 2000, the largest increase of the 10 metro areas examined.

## ESTABLISHMENTS

- ◆ Los Angeles was the leading metro area by aerospace and aviation establishments in 2000, with more than 1,000 establishments.
- ◆ New York and Seattle followed Los Angeles in this ranking with over 600 and 400 aerospace and aviation establishments in 2000, respectively.



## A SNAPSHOT OF SELECT METROPOLITAN AREAS AEROSPACE AND AVIATION INDUSTRY

Ranked by Employment	2001 Employment	2000 Wages	2000 Payroll	2000 Establishments
Los Angeles	137,100	\$57,800	\$8.1b	1,006
Seattle	111,200	\$58,400	\$6.4b	411
Chicago	78,000	\$42,700	\$3.3b	367
Atlanta	66,200	\$53,600	\$3.6b	283
Fort Worth	62,100	\$55,700	\$3.4b	190

2001 employment data are preliminary.

2000 wage, payroll, and establishment data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# INDUSTRY SEGMENTS KEY FINDINGS

The commercial aerospace and aviation industry is comprised of five major industry segments: aircraft and parts; guided missiles; search, detection, and navigation; air transportation; and satellite communications.

An examination of 2001 direct employment data for these sectors shows that the vast majority of the 2 million jobs were concentrated in the air transportation industry. Last year, 1.3 million people were employed by this sector, comprising nearly two-thirds of all aerospace industry employees. Wages in this sector were also among the lowest at \$40,600.

Aircraft and parts manufacturing was the second largest aerospace sector by jobs, employing over 460,000 workers earning \$57,200. The search, detection, and navigation manufacturing sector employed more than 150,000 workers in 2001, earning \$65,100 on average. The other two sectors employed fewer than 100,000 industry workers each.

This page also shows the leading metropolitan areas by jobs for each of the five sectors. Similar aerospace and aviation businesses often cluster together to take advantage of shared resources. For instance, Los Angeles leads in satellite communications employment. Seattle leads in aircraft and parts manufacturing with Boeing at the core of this metropolitan area's aircraft manufacturing industry. Aircraft and parts manufacturing is important to Wichita's local economy with nearly 45,000 jobs in 2001.

Chicago and Atlanta, home to the two busiest airports in the nation, led in air transportation. However, Los Angeles and New York, with their large international airports, were not far behind. Boston's guided missiles and space vehicles industry ranked first with some 8,700 employees in 2001.

## AIRCRAFT & PARTS MFG.

U.S. Employment . . . . . 462,200  
U.S. Wages . . . . . \$57,200

### TOP METROS BY EMPLOYMENT

1. Seattle, WA	85,691
2. Los Angeles, CA	46,441
3. Wichita, KS	44,667
4. Fort Worth, TX	20,010
5. Phoenix, AZ	18,059

## GUIDED MISSILES MFG.

U.S. Employment . . . . . 83,000  
U.S. Wages . . . . . \$66,500

### TOP METROS BY EMPLOYMENT

1. Boston, MA-NH	8,677
2. Los Angeles, CA	1,828
3. Phoenix, AZ	1,063

## SEARCH, DETECTION MFG.

U.S. Employment . . . . . 151,100  
U.S. Wages . . . . . \$65,100

### TOP METROS BY EMPLOYMENT

1. Los Angeles, CA	30,760
2. Boston, MA-NH	9,419
3. Dallas, TX	5,861
4. Phoenix, AZ	5,530
5. Seattle, WA	2,481

## AIR TRANSPORTATION

U.S. Employment . . . . . 1,302,900  
U.S. Wages . . . . . \$40,600

### TOP METROS BY EMPLOYMENT

1. Chicago, IL	74,177
2. Atlanta, GA	58,063
3. Los Angeles, CA	56,593
4. New York, NY	54,884
5. Fort Worth, TX	42,011

## SATELLITE COMMUNICATIONS

U.S. Employment . . . . . 18,000  
U.S. Wages . . . . . \$66,100

### TOP METROS BY EMPLOYMENT

1. Los Angeles, CA	1,477
2. New York, NY	825
3. Chicago, IL	510
4. Atlanta, GA	287
5. Seattle, WA	203

Note: 2001 employment data are preliminary. Wage data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF ATLANTA'S AEROSPACE & AVIATION INDUSTRY

*Atlanta's  
Aerospace  
and  
Aviation  
Industry  
Employs  
66,200  
Workers*



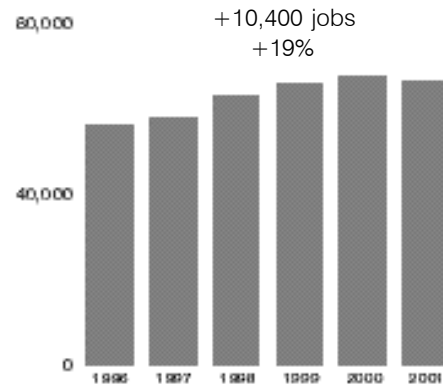
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>66,159</b>
EMPLOYMENT RANK	4TH
<b>JOBS PER 1,000 WORKERS</b>	<b>35</b>
JOBS PER CAPITA RANK	6TH
<b>ESTABLISHMENTS</b>	<b>283</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	58,100
2. AIRCRAFT AND PARTS MANUFACTURING	7,600
3. SATELLITE COMMUNICATIONS	300

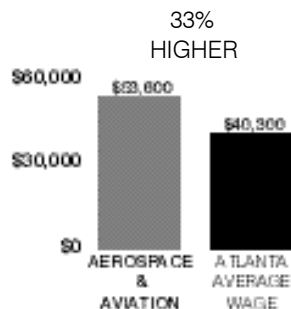


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$53,621</b>
WAGE RANK	4TH
<b>ATLANTA AVERAGE WAGE</b>	<b>\$40,344</b>
WAGE DIFFERENTIAL	33%
<b>PAYROLL</b>	<b>\$3.6b</b>

# B O S T O N

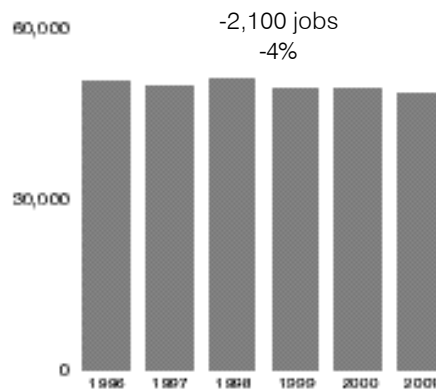
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## A SNAPSHOT OF BOSTON'S AEROSPACE & AVIATION INDUSTRY

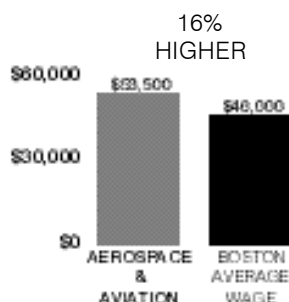
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>48,427</b>
EMPLOYMENT RANK	8TH
<b>JOBS PER 1,000 WORKERS</b>	<b>17</b>
JOBS PER CAPITA RANK	9TH
<b>ESTABLISHMENTS</b>	<b>385</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	25,300
2. SEARCH, DETECTION, NAVIGATION	9,400
3. GUIDED MISSILES AND SPACE MFG.	8,700

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$53,464</b>
WAGE RANK	5TH
<b>BOSTON AVERAGE WAGE</b>	<b>\$45,977</b>
WAGE DIFFERENTIAL	16%
<b>PAYROLL</b>	<b>\$2.6b</b>

*Boston's  
Aerospace  
and  
Aviation  
Industry  
Employs  
48,400  
Workers*

Boston = Massachusetts: Bristol, Essex, Middlesex, Norfolk, Plymouth, Suffolk, and Worcester Counties; New Hampshire: Hillsborough, Rockingham, and Strafford Counties  
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
Source: U.S. Bureau of Labor Statistics



# A SNAPSHOT OF CHICAGO'S AEROSPACE & AVIATION INDUSTRY

*Chicago's  
Aerospace  
and  
Aviation  
Industry  
Employs  
78,000  
Workers*



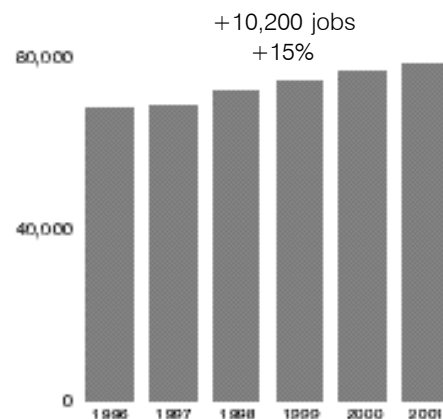
## EMPLOYMENT

<b>EMPLOYMENT</b>	<b>77,958</b>
EMPLOYMENT RANK	3RD
<b>JOBS PER 1,000 WORKERS</b>	<b>22</b>
JOBS PER CAPITA RANK	8TH
<b>ESTABLISHMENTS</b>	<b>367</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	74,200
2. SEARCH, DETECTION, NAVIGATION	2,100
3. AIRCRAFT AND PARTS MANUFACTURING	1,200

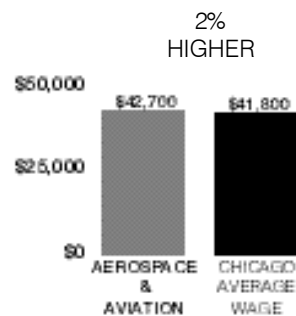


## EMPLOYMENT

1996 - 2001



## WAGE COMPARISON



## WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$42,669</b>
WAGE RANK	10TH
<b>CHICAGO AVERAGE WAGE</b>	<b>\$41,765</b>
WAGE DIFFERENTIAL	2%
<b>PAYROLL</b>	<b>\$3.3b</b>

# DALLAS

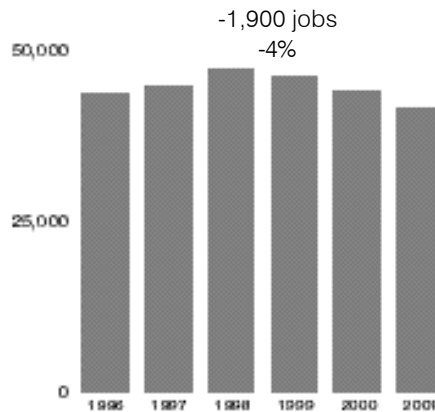
# 2001

## A SNAPSHOT OF DALLAS' AEROSPACE & AVIATION INDUSTRY

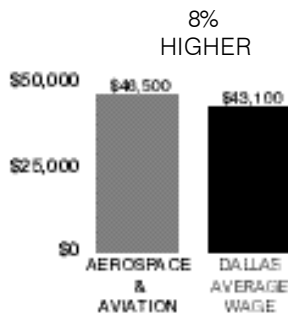
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>41,562</b>
EMPLOYMENT RANK	10TH
<b>JOBS PER 1,000 WORKERS</b>	<b>24</b>
JOBS PER CAPITA RANK	7TH
<b>ESTABLISHMENTS</b>	<b>359</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	24,000
2. AIRCRAFT AND PARTS MANUFACTURING	11,700
3. SEARCH, DETECTION, NAVIGATION	5,900

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$46,461</b>
WAGE RANK	8TH
<b>DALLAS AVERAGE WAGE</b>	<b>\$43,052</b>
WAGE DIFFERENTIAL	8%
<b>PAYROLL</b>	<b>\$2.0b</b>

*Dallas' Aerospace and Aviation Industry Employs 41,600 Workers*

Dallas = Texas: Collin, Dallas, Denton, Ellis, Henderson, Hunt, Kaufman, and Rockwall Counties  
 Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
 Source: U.S. Bureau of Labor Statistics

# F O R T W O R T H 2 0 0 1

## A SNAPSHOT OF FORT WORTH'S AEROSPACE & AVIATION INDUSTRY

*Fort Worth's  
Aerospace  
and  
Aviation  
Industry  
Employs  
62,100  
Workers*



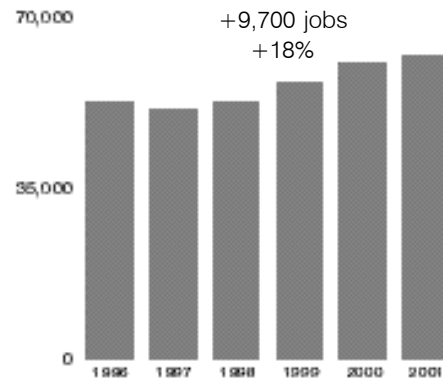
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>62,088</b>
EMPLOYMENT RANK	5TH
<b>JOBS PER 1,000 WORKERS</b>	<b>93</b>
JOBS PER CAPITA RANK	3RD
<b>ESTABLISHMENTS</b>	<b>190</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	42,000
2. AIRCRAFT AND PARTS MANUFACTURING	20,000
3. SEARCH, DETECTION, NAVIGATION	70

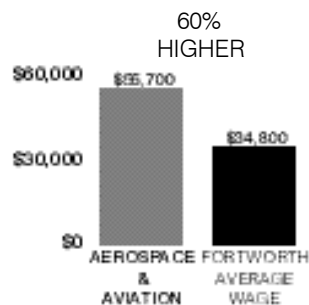


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$55,690</b>
WAGE RANK	3RD
<b>FORT WORTH AVG. WAGE</b>	<b>\$34,767</b>
WAGE DIFFERENTIAL	60%
<b>PAYROLL</b>	<b>\$3.4b</b>

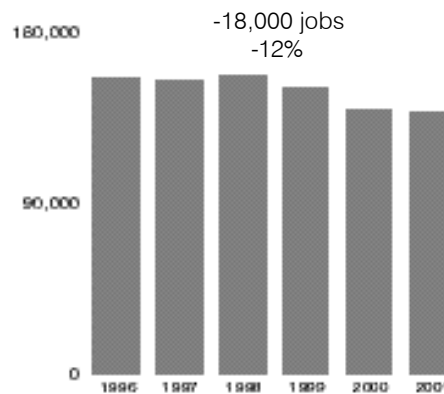
# LOS ANGELES 2001

## A SNAPSHOT OF LOS ANGELES' AEROSPACE & AVIATION INDUSTRY

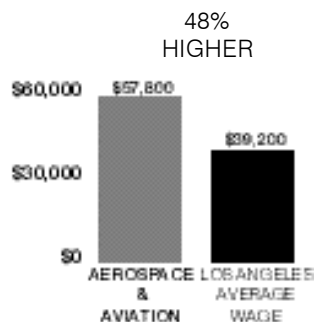
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>137,100</b>
EMPLOYMENT RANK	1ST
<b>JOBS PER 1,000 WORKERS</b>	<b>39</b>
JOBS PER CAPITA RANK	4TH
<b>ESTABLISHMENTS</b>	<b>1,006</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	56,600
2. AIRCRAFT AND PARTS MANUFACTURING	46,400
3. SEARCH, DETECTION, NAVIGATION	30,800

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$57,841</b>
WAGE RANK	2ND
<b>LOS ANGELES AVG. WAGE</b>	<b>\$39,196</b>
WAGE DIFFERENTIAL	48%
<b>PAYROLL</b>	<b>\$8.1b</b>

*Los  
Angeles'  
Aerospace  
and  
Aviation  
Industry  
Employs  
137,100  
Workers*

Los Angeles = California: Los Angeles County  
 Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
 Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF NEW YORK'S AEROSPACE & AVIATION INDUSTRY

*New York's  
Aerospace  
and  
Aviation  
Industry  
Employs  
57,400  
Workers*



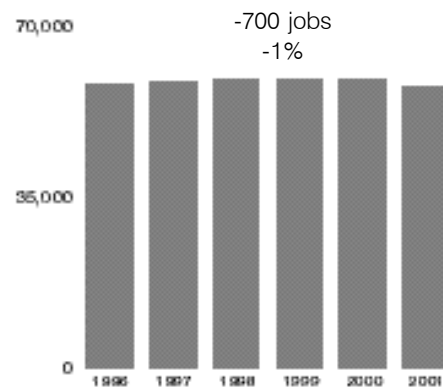
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>57,411</b>
EMPLOYMENT RANK	6TH
<b>JOBS PER 1,000 WORKERS</b>	<b>16</b>
JOBS PER CAPITA RANK	10TH
<b>ESTABLISHMENTS</b>	<b>623</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	54,900
2. SEARCH, DETECTION, NAVIGATION	900
3. AIRCRAFT AND PARTS MANUFACTURING	800

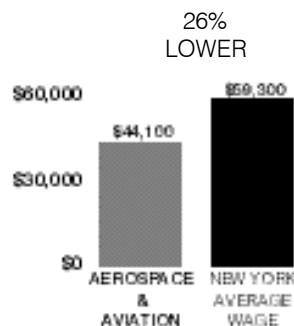


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

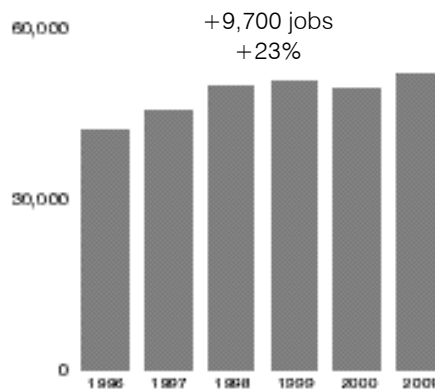
<b>AVERAGE INDUSTRY WAGE</b>	<b>\$44,097</b>
AVERAGE WAGE RANK	9TH
<b>NEW YORK AVERAGE WAGE</b>	<b>\$59,329</b>
WAGE DIFFERENTIAL	-26%
<b>PAYROLL</b>	<b>\$2.6b</b>

## A SNAPSHOT OF PHOENIX'S AEROSPACE & AVIATION INDUSTRY

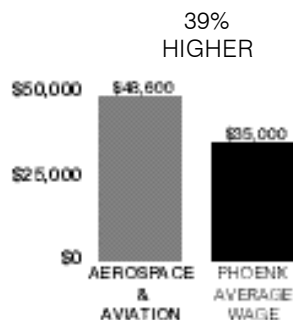
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>51,894</b>
EMPLOYMENT RANK	7TH
<b>JOBS PER 1,000 WORKERS</b>	<b>38</b>
JOBS PER CAPITA RANK	5TH
<b>ESTABLISHMENTS</b>	<b>345</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIR TRANSPORTATION	27,100
2. AIRCRAFT AND PARTS MANUFACTURING	18,100
3. SEARCH, DETECTION, NAVIGATION	5,500

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$48,649</b>
WAGE RANK	7TH
<b>PHOENIX AVERAGE WAGE</b>	<b>\$34,984</b>
WAGE DIFFERENTIAL	39%
<b>PAYROLL</b>	<b>\$2.4b</b>

*Phoenix's  
Aerospace  
and  
Aviation  
Industry  
Employs  
51,900  
Workers*

Phoenix = Arizona: Maricopa and Pinal Counties  
Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
Source: U.S. Bureau of Labor Statistics

## A SNAPSHOT OF SEATTLE'S AEROSPACE & AVIATION INDUSTRY

Seattle's  
Aerospace  
and  
Aviation  
Industry  
Employs  
111,200  
Workers



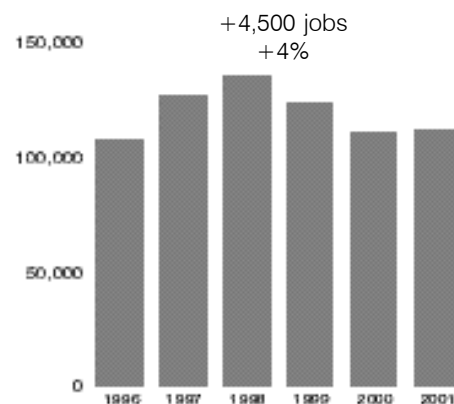
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>111,239</b>
EMPLOYMENT RANK	2ND
<b>JOBS PER 1,000 WORKERS</b>	<b>93</b>
JOBS PER CAPITA RANK	2ND
<b>ESTABLISHMENTS</b>	<b>411</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIRCRAFT AND PARTS MANUFACTURING	85,700
2. AIR TRANSPORTATION	22,900
3. SEARCH, DETECTION, NAVIGATION	2,500

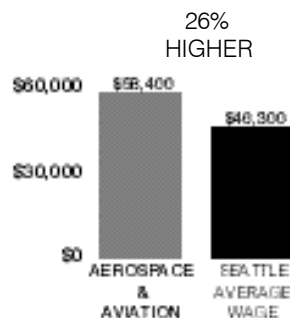


### EMPLOYMENT

1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$58,427</b>
WAGE RANK	1ST
<b>SEATTLE AVERAGE WAGE</b>	<b>\$46,336</b>
WAGE DIFFERENTIAL	26%
<b>PAYROLL</b>	<b>\$6.4b</b>

# WICHITA

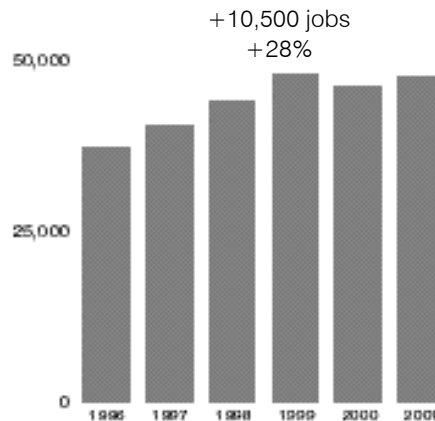
# 2001

## A SNAPSHOT OF WICHITA'S AEROSPACE & AVIATION INDUSTRY

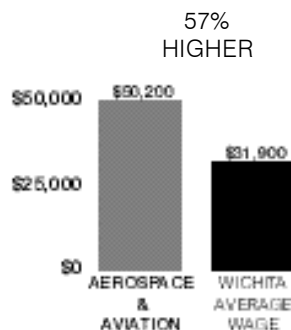
### EMPLOYMENT

<b>EMPLOYMENT</b>	<b>47,482</b>
EMPLOYMENT RANK	9TH
<b>JOBS PER 1,000 WORKERS</b>	<b>193</b>
JOBS PER CAPITA RANK	1ST
<b>ESTABLISHMENTS</b>	<b>169</b>
<b>TOP AEROSPACE &amp; AVIATION SECTORS</b>	
1. AIRCRAFT AND PARTS MANUFACTURING	44,700
2. AIR TRANSPORTATION	2,100
3. SEARCH, DETECTION, NAVIGATION	700

### EMPLOYMENT 1996 - 2001



### WAGE COMPARISON



### WAGES

<b>AVERAGE INDUSTRY WAGE</b>	<b>\$50,166</b>
WAGE RANK	6TH
<b>WICHITA AVERAGE WAGE</b>	<b>\$31,902</b>
WAGE DIFFERENTIAL	57%
<b>PAYROLL</b>	<b>\$2.3b</b>

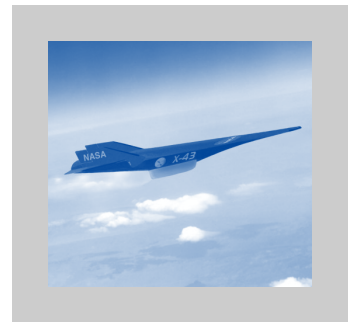
*Wichita's  
Aerospace  
and  
Aviation  
Industry  
Employs  
47,500  
Workers*

Wichita = Kansas: Butler, Harvey, and Sedgwick Counties  
 Note: 2001 employment data are preliminary. Wage, payroll, and establishment data are for 2000, the most recent available from the U.S. government. All data are for commercial workers only.  
 Source: U.S. Bureau of Labor Statistics



# THE AEROSPACE & AVIATION INDUSTRY

## METRO APPENDICES



# AEROSPACE AND AVIATION EMPLOYMENT AND WAGES BY METRO AREA

## EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY BY METRO AREA, 1996 - 2001

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	% Change <u>1996-2001</u>	# Change <u>1996-2001</u>
United States	1,896,411	1,956,338	2,040,756	2,060,804	2,057,663	2,034,587	7%	138,176
Atlanta, GA	55,742	57,822	62,860	65,455	67,104	66,159	19%	10,417
Boston, MA-NH	50,483	49,698	50,810	49,168	49,074	48,427	-4%	-2,056
Chicago, IL	67,714	68,402	71,973	73,969	76,635	77,958	15%	10,244
Dallas, TX	43,477	44,632	47,213	46,136	43,909	41,562	-4%	-1,915
Fort Worth, TX	52,436	50,970	52,713	56,461	60,614	62,088	18%	9,652
Los Angeles, CA	155,137	153,939	157,281	149,708	139,278	137,100	-12%	-18,037
New York, NY	58,066	58,534	58,939	58,845	58,829	57,411	-1%	-655
Phoenix, AZ	42,162	45,238	49,555	50,472	49,351	51,894	23%	9,732
Seattle, WA	106,743	125,796	134,392	122,972	110,192	111,239	4%	4,496
Wichita, KS	36,968	40,266	43,878	47,624	45,875	47,482	28%	10,514

## EMPLOYMENT IN THE AEROSPACE AND AVIATION INDUSTRY PER 1,000 WORKERS BY METRO AREA, 1996 - 2001

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>	% Change <u>1996-2001</u>	# Change <u>1996-2001</u>
United States	16.1	16.2	16.4	16.2	15.8	15.6	-3%	-0.4
Atlanta, GA	34.4	34.5	36.0	35.8	35.9	35.2	2%	0.8
Boston, MA-NH	20.1	19.2	19.2	18.2	17.6	17.3	-14%	-2.7
Chicago, IL	20.2	20.0	20.5	20.8	21.3	22.0	9%	1.8
Dallas, TX	30.0	29.0	29.1	27.5	25.1	23.6	-21%	-6.4
Fort Worth, TX	92.0	85.5	85.0	87.8	91.4	92.9	1%	0.9
Los Angeles, CA	47.0	45.8	45.7	42.8	39.4	39.1	-17%	-7.9
New York, NY	18.3	18.0	17.7	17.3	16.8	16.4	-10%	-1.8
Phoenix, AZ	36.7	37.1	38.5	37.6	35.6	37.8	3%	1.1
Seattle, WA	104.0	115.2	117.1	104.2	91.5	93.4	-10%	-10.6
Wichita, KS	161.8	168.8	177.9	192.9	186.5	193.4	20%	31.6

## ANNUAL AVERAGE WAGES IN THE AEROSPACE AND AVIATION INDUSTRY BY METRO AREA, 1996 - 2000

(adjusted for inflation to 2000 dollars)

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	% Change <u>1996-2000</u>	# Change <u>1996-2000</u>
United States	\$45,479	\$46,656	\$47,214	\$48,123	\$47,673	5%	\$2,194
Atlanta, GA	\$50,286	\$51,285	\$51,322	\$53,865	\$53,621	7%	\$3,335
Boston, MA-NH	\$48,638	\$53,251	\$54,064	\$55,296	\$53,464	10%	\$4,827
Chicago, IL	\$41,851	\$43,539	\$42,777	\$44,802	\$42,669	2%	\$818
Dallas, TX	\$47,720	\$47,868	\$48,809	\$47,878	\$46,461	-3%	-\$1,259
Fort Worth TX	\$55,477	\$57,892	\$60,302	\$58,427	\$55,690	0%	\$213
Los Angeles, CA	\$54,745	\$56,951	\$57,646	\$57,496	\$57,841	6%	\$3,095
New York, NY	\$47,438	\$42,300	\$42,393	\$44,053	\$44,097	-7%	-\$3,340
Phoenix, AZ	\$46,737	\$47,797	\$48,255	\$49,560	\$48,649	4%	\$1,912
Seattle, WA	\$56,235	\$55,312	\$54,663	\$57,287	\$58,427	4%	\$2,192
Wichita, KS	\$50,958	\$50,706	\$50,856	\$50,226	\$50,166	-2%	-\$792

# AEROSPACE AND AVIATION PAYROLL AND ESTABLISHMENTS BY METRO AREA

## ANNUAL PAYROLL IN THE AEROSPACE AND AVIATION INDUSTRY BY METRO AREA, 1996 - 2000

(adjusted for inflation to millions of 2000 dollars)

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	% Change <u>1996-2000</u>	# Change <u>1996-2000</u>
United States	\$86,247	\$91,275	\$96,352	\$99,171	\$98,095	14%	\$11,847
Atlanta, GA	\$2,803	\$2,965	\$3,226	\$3,526	\$3,598	28%	\$795
Boston, MA-NH	\$2,455	\$2,646	\$2,747	\$2,719	\$2,624	7%	\$168
Chicago, IL	\$2,834	\$2,978	\$3,079	\$3,314	\$3,270	15%	\$436
Dallas, TX	\$2,075	\$2,136	\$2,304	\$2,209	\$2,040	-2%	-\$35
Fort Worth, TX	\$2,909	\$2,951	\$3,179	\$3,299	\$3,376	16%	\$467
Los Angeles, CA	\$8,493	\$8,767	\$9,067	\$8,608	\$8,056	-5%	-\$437
New York, NY	\$2,755	\$2,476	\$2,499	\$2,592	\$2,594	-6%	-\$160
Phoenix, AZ	\$1,971	\$2,162	\$2,391	\$2,501	\$2,401	22%	\$430
Seattle, WA	\$6,003	\$6,958	\$7,346	\$7,045	\$6,438	7%	\$436
Wichita, KS	\$1,884	\$2,042	\$2,231	\$2,392	\$2,301	22%	\$418

## ESTABLISHMENTS IN THE AEROSPACE AND AVIATION INDUSTRY BY METRO AREA, 1996 - 2000

	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	% Change <u>1996-2000</u>	# Change <u>1996-2000</u>
United States	20,256	20,745	21,434	21,747	21,852	8%	1,596
Atlanta, GA	247	263	271	287	283	15%	36
Boston, MA-NH	373	366	382	362	385	3%	12
Chicago, IL	306	319	371	369	367	20%	61
Dallas, TX	276	301	323	345	359	30%	83
Fort Worth, TX	105	114	111	143	190	81%	85
Los Angeles, CA	1,141	1,115	1,123	1,098	1,006	-12%	-135
New York, NY	564	584	574	587	623	10%	59
Phoenix, AZ	338	353	354	348	345	2%	7
Seattle, WA	385	396	407	416	411	7%	26
Wichita, KS	145	139	147	158	169	17%	24

2000 payroll and establishment data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION METRO AREA RANKINGS

## AEROSPACE AND AVIATION EMPLOYMENT, 2001

Rank	Metro Area	Employment
	United States	2,034,587
1.	Los Angeles, CA	137,100
2.	Seattle, WA	111,239
3.	Chicago, IL	77,958
4.	Atlanta, GA	66,159
5.	Fort Worth, TX	62,088
6.	New York, NY	57,411
7.	Phoenix, AZ	51,894
8.	Boston, MA-NH	48,427
9.	Wichita, KS	47,482
10.	Dallas, TX	41,562

## AEROSPACE AND AVIATION WAGES, 2000

Rank	Metro Area	Wages
	United States	\$47,673
1.	Seattle, WA	\$58,427
2.	Los Angeles, CA	\$57,841
3.	Fort Worth, TX	\$55,690
4.	Atlanta, GA	\$53,621
5.	Boston, MA-NH	\$53,464
6.	Wichita, KS	\$50,166
7.	Phoenix, AZ	\$48,649
8.	Dallas, TX	\$46,461
9.	New York, NY	\$44,097
10.	Chicago, IL	\$42,669

## AEROSPACE AND AVIATION PAYROLL, 2000

Rank	Metro Area	Payroll
	United States	\$98,094,643,859
1.	Los Angeles, CA	\$8,055,941,011
2.	Seattle, WA	\$6,438,233,180
3.	Atlanta, GA	\$3,598,208,948
4.	Fort Worth, TX	\$3,375,597,342
5.	Chicago, IL	\$3,269,920,959
6.	Boston, MA-NH	\$2,623,699,583
7.	New York, NY	\$2,594,207,617
8.	Phoenix, AZ	\$2,400,889,394
9.	Wichita, KS	\$2,301,353,974
10.	Dallas, TX	\$2,040,056,456

## AEROSPACE AND AVIATION ESTABLISHMENTS, 2000

Rank	Metro Area	Establishments
	United States	21,852
1.	Los Angeles, CA	1,006
2.	New York, NY	623
3.	Seattle, WA	411
4.	Boston, MA-NH	385
5.	Chicago, IL	367
6.	Dallas, TX	359
7.	Phoenix, AZ	345
8.	Atlanta, GA	283
9.	Fort Worth, TX	190
10.	Wichita, KS	169

## AEROSPACE AND AVIATION EMPLOYMENT PER 1,000 WORKERS IN ALL INDUSTRIES 2001

Rank	Metro Area	Employment Per 1,000
	United States	15.6
1.	Wichita, KS	193.4
2.	Seattle, WA	93.4
3.	Fort Worth, TX	92.9
4.	Los Angeles, CA	39.1
5.	Phoenix, AZ	37.8
6.	Atlanta, GA	35.2
7.	Dallas, TX	23.6
8.	Chicago, IL	22.0
9.	Boston, MA-NH	17.3
10.	New York, NY	16.4

## AEROSPACE AND AVIATION ANNUAL WAGES VS. ANNUAL AVERAGE WAGES FOR ALL INDUSTRIES 2000

Rank	Metro Area	Aerospace & Aviation	All Industries	Percent Difference
	United States	\$47,673	\$35,296	35%
1.	Fort Worth, TX	\$55,690	\$34,767	60%
2.	Wichita, KS	\$50,166	\$31,902	57%
3.	Los Angeles, CA	\$57,841	\$39,196	48%
4.	Phoenix, AZ	\$48,649	\$34,984	39%
5.	Atlanta, GA	\$53,621	\$40,344	33%
6.	Seattle, WA	\$58,427	\$46,336	26%
7.	Boston, MA-NH	\$53,464	\$45,977	16%
8.	Dallas, TX	\$46,461	\$43,052	8%
9.	Chicago, IL	\$42,669	\$41,765	2%
10.	New York, NY	\$44,097	\$59,329	-26%

2001 employment data are preliminary. 2000 wage, payroll, and establishment data are the most recent available.

Source: U.S. Bureau of Labor Statistics

# AEROSPACE AND AVIATION METRO AREA RANKINGS

## AEROSPACE AND AVIATION EMPLOYMENT PERCENT CHANGE 1996 - 2001

Rank	Metro Area	Percent Change 1996-2001
	United States	7.3%
	U.S. Total - All Industries	10.3%
1.	Wichita, KS	28.4%
2.	Phoenix, AZ	23.1%
3.	Atlanta, GA	18.7%
4.	Fort Worth, TX	18.4%
5.	Chicago, IL	15.1%
6.	Seattle, WA	4.2%
7.	New York, NY	-1.1%
8.	Boston, MA-NH	-4.1%
9.	Dallas, TX	-4.4%
10.	Los Angeles, CA	-11.6%

## AEROSPACE AND AVIATION EMPLOYMENT NUMERIC CHANGE 1996 - 2001

Rank	Metro Area	Numeric Change 1996-2001
	United States	138,176
	U.S. Total - All Industries	12,134,493
1.	Wichita, KS	10,514
2.	Atlanta, GA	10,417
3.	Chicago, IL	10,244
4.	Phoenix, AZ	9,732
5.	Fort Worth, TX	9,652
6.	Seattle, WA	4,496
7.	New York, NY	-655
8.	Dallas, TX	-1,915
9.	Boston, MA-NH	-2,056
10.	Los Angeles, CA	-18,037

## AEROSPACE AND AVIATION WAGE PERCENT CHANGE 1996 - 2000

(adjusted for inflation)

Rank	Metro Area	Percent Change 1996-2000
	United States	4.8%
	U.S. Total - All Industries	11.1%
1.	Boston, MA-NH	9.9%
2.	Atlanta, GA	6.6%
3.	Los Angeles, CA	5.7%
4.	Phoenix, AZ	4.1%
5.	Seattle, WA	3.9%
6.	Chicago, IL	2.0%
7.	Fort Worth, TX	0.4%
8.	Wichita, KS	-1.6%
9.	Dallas, TX	-2.6%
10.	New York, NY	-7.0%

## AEROSPACE AND AVIATION WAGE NUMERIC CHANGE 1996 - 2000

(adjusted for inflation to 2000 dollars)

Rank	Metro Area	Numeric Change 1996-2000
	United States	\$2,194
	U.S. Total - All Industries	\$3,526
1.	Boston, MA-NH	\$4,827
2.	Atlanta, GA	\$3,335
3.	Los Angeles, CA	\$3,095
4.	Seattle, WA	\$2,192
5.	Phoenix, AZ	\$1,912
6.	Chicago, IL	\$818
7.	Fort Worth, TX	\$213
8.	Wichita, KS	-\$792
9.	Dallas, TX	-\$1,259
10.	New York, NY	-\$3,340

# AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

## AIRCRAFT AND PARTS MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u> <u>United States</u>	<u>Employment</u> <u>462,169</u>
1.	Seattle, WA	85,691
2.	Los Angeles, CA	46,441
3.	Wichita, KS	44,667
4.	Fort Worth, TX	20,010
5.	Phoenix, AZ	18,059
6.	Dallas, TX	11,728
7.	Atlanta, GA	7,619
8.	Boston, MA-NH	5,042
9.	Chicago, IL	1,206
10.	New York, NY	840

## GUIDED MISSILES AND SPACE VEHICLES AND PARTS MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u> <u>United States</u>	<u>Employment</u> <u>82,955</u>
1.	Boston, MA-NH	8,677
2.	Los Angeles, CA	1,828
3.	Phoenix, AZ	1,063

## SEARCH, DETECTION, NAVIGATION, AND GUIDANCE MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u> <u>United States</u>	<u>Employment</u> <u>151,124</u>
1.	Los Angeles, CA	30,760
2.	Boston, MA-NH	9,419
3.	Dallas, TX	5,861
4.	Phoenix, AZ	5,530
5.	Seattle, WA	2,481
6.	Chicago, IL	2,065
7.	New York, NY	861
8.	Wichita, KS	694
9.	Atlanta, GA	190
10.	Fort Worth, TX	67

## AEROSPACE AND AVIATION MANUFACTURING EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u> <u>United States</u>	<u>Employment</u> <u>696,248</u>
1.	Seattle, WA	88,172
2.	Los Angeles, CA	79,029
3.	Wichita, KS	45,361
4.	Phoenix, AZ	24,652
5.	Boston, MA-NH	23,137
6.	Fort Worth, TX	20,077
7.	Dallas, TX	17,589
8.	Atlanta, GA	7,809
9.	Chicago, IL	3,271
10.	New York, NY	1,702

## AEROSPACE AND AVIATION EMPLOYMENT SEGMENT RANKINGS

### TRANSPORT BY AIR EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u>	<u>Employment</u>
	United States	1,302,900
1.	Chicago, IL	74,177
2.	Atlanta, GA	58,063
3.	Los Angeles, CA	56,593
4.	New York, NY	54,884
5.	Fort Worth, TX	42,011
6.	Phoenix, AZ	27,113
7.	Boston, MA-NH	25,290
8.	Dallas, TX	23,973
9.	Seattle, WA	22,863
10.	Wichita, KS	2,121

### SATELLITE COMMUNICATIONS EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u>	<u>Employment</u>
	United States	18,044
1.	Los Angeles, CA	1,477
2.	New York, NY	825
3.	Chicago, IL	510
4.	Atlanta, GA	287
5.	Seattle, WA	203
6.	Phoenix, AZ	129

### AEROSPACE AND AVIATION SERVICES EMPLOYMENT, 2001

<u>Rank</u>	<u>Metro Area</u>	<u>Employment</u>
	United States	1,338,339
1.	Chicago, IL	74,687
2.	Atlanta, GA	58,350
3.	Los Angeles, CA	58,071
4.	New York, NY	55,709
5.	Fort Worth, TX	42,011
6.	Phoenix, AZ	27,242
7.	Boston, MA-NH	25,290
8.	Dallas, TX	23,973
9.	Seattle, WA	23,066
10.	Wichita, KS	2,121

2001 data are preliminary.

Source: U.S. Bureau of Labor Statistics

# DEFINITION OF THE AEROSPACE & AVIATION INDUSTRY

## STANDARD INDUSTRIAL CLASSIFICATION CODES

An analysis of U.S. and state-level aerospace and aviation industry data by employment, establishments, wages, and payroll requires the use of the U.S. government's SIC industry coding system. In preparing the aerospace and aviation industry definition, Content First worked closely with the Commission on the Future of the United States Aerospace Industry to identify those industry classification codes that best describe the industry. Additionally, the Aerospace Commission directed Content First to conduct a review of how key aerospace and aviation-related associations define the industry.

Our review revealed that there is no consensus on the definition of the aerospace and aviation industry. Most industry definitions are tailored to meet the specific needs of the association or study being conducted. For example, the Aerospace Industries Association exclusively examines the manufacturing segments of the aerospace industry, while the Air Transportation Association focuses only on the air transportation industry.

Content First selected 13 SIC codes to define the aerospace and aviation industry. They fall into six broad categories: aircraft and space industry manufacturing; guided missiles and space manufacturing; search, detection, and navigation manufacturing; air transportation; satellite communications; and space research and technology. The 13 SIC codes that best represent the core segments of the aerospace and aviation industry are detailed in the box to the right.

The present SIC code structure does not permit a clear analysis of every segment of the industry. For instance, the SIC system does not allow us to isolate those components of the military that are aerospace and aviation related. All the branches of the armed forces are classified together under SIC code 9711, National Security. For this reason, this report only examines the civilian and commercial components of the aerospace and aviation industry.

Also, we are not able to isolate flying instruction schools – an important component of the air transportation industry – since the current SIC code structure aggregates data for these schools along with drama schools, charm schools, and modeling schools. Finally, the SIC system also does not allow us to capture those companies that manage certain aerospace and aviation facilities under SIC code 8744, Facilities Support Management Services. Unfortunately, this SIC code includes the management of private correctional facilities and jails.

### AEROSPACE AND AVIATION DEFINITION BY STANDARD INDUSTRIAL CLASSIFICATION CODES

#### MANUFACTURING

##### **AIRCRAFT AND PARTS**

- 3721 Aircraft
- 3724 Aircraft Engines & Engine Parts
- 3728 Aircraft Parts & Auxiliary Equipment

##### **GUIDED MISSILES & SPACE VEHICLES AND PARTS**

- 3761 Guided Missiles & Space Vehicles
- 3764 Propulsion Units & Propulsion Parts
- 3769 Other Guided Missiles & Space Vehicles & Auxiliary Equipment

##### **SEARCH, DETECTION, NAVIGATION, GUIDANCE**

- 3812 Search, Detection, Navigation, Guidance, Aeronautical, & Nautical

#### SERVICES

##### **TRANSPORT BY AIR**

- 4512 Air Transportation Scheduled
- 4513 Air Courier Services
- 4522 Air Transportation, Nonscheduled
- 4581 Airports, Flying Fields, and Airport Terminal Services

##### **SATELLITE COMMUNICATIONS**

- 4899 Communication Services (Satellite Communications)

##### **SPACE RESEARCH & TECH**

- 9661 Space Research & Technology



# DEFINITION OF THE AEROSPACE & AVIATION INDUSTRY

## NORTH AMERICAN INDUSTRIAL CLASSIFICATION SYSTEM

The U.S. government has replaced the SIC system with a new industry coding system, known as the North American Industrial Classification System, or NAICS. This new coding system will allow analysts to collect data on many of today's newest industries. There is no doubt that the NAICS will reshape the way we view our changing economy. It identifies hundreds of new, emerging, and advanced technology industries. For instance, the NAICS recognizes separately for the first time the satellite communications industry.

In contrast to the 4-digit SIC code, NAICS industries are identified by 6-digit codes. The longer code accommodates the larger number of sectors and allows more flexibility in designating the subsectors. NAICS, unlike SIC, was developed jointly by the United States, Canada, and Mexico. For the first time, the NAICS will provide new comparability in statistics about business activity in North America.

Until the U.S. government releases NAICS-based employment, wage, payroll, and establishment data, the SIC provides the best and most comprehensive measure of the economic impact of U.S. industries on the American economy. The table at the right contains those NAICS codes that should be used to capture the main aerospace and aviation industry segments.

### AEROSPACE AND AVIATION DEFINITION BY NORTH AMERICAN INDUSTRIAL CLASSIFICATION SYSTEM CODES

#### MANUFACTURING

##### **AEROSPACE PRODUCT AND PARTS MANUFACTURING**

- 336411 Aircraft
- 336412 Aircraft Engine and Parts
- 336413 Other Aircraft Parts & Auxiliary Equipment
- 336414 Guided Missiles & Space Vehicles
- 336415 Propulsion Units & Propulsion Parts
- 336419 Other Guided Missiles & Space Vehicles & Auxiliary Equipment

##### **SEARCH, DETECTION, NAVIGATION, GUIDANCE**

- 334511 Search, Detection, Navigation, Guidance, Aeronautical, & Nautical

#### SERVICES

##### **AIR TRANSPORTATION**

- 481111 Scheduled Passenger Air Transportation
- 481112 Scheduled Freight Air Transportation
- 481211 Nonscheduled Chartered Passenger Air Transportation
- 481212 Nonscheduled Chartered Freight Air Transportation
- 481219 Other Nonscheduled Air Transportation

##### **SUPPORT ACTIVITIES FOR AIR TRANSPORTATION**

- 488111 Air Traffic Control
- 488119 Other Airport Operations
- 488190 Other Support Activities for Air Transportation

##### **SATELLITE COMMUNICATIONS**

- 517410 Satellite Communications

##### **FLIGHT TRAINING SCHOOLS**

- 611512 Flight Training Schools

##### **SPACE RESEARCH & TECH**

- 927110 Space Research & Technology

# METHODOLOGY

The statistics in this report on civilian and commercial aerospace and aviation industry employment, wages, payroll, and establishments were compiled from the U.S. Bureau of Labor Statistics (BLS) Covered Employment and Wages, or ES-202 program. The ES-202 data are the most comprehensive source of industry data at the national, state, and local levels.

The ES-202 statistics produced by the U.S. government are derived from the quarterly tax reports submitted to State Employment Agencies by employers subject to state unemployment insurance laws and from federal agencies subject to the Unemployment Compensation for Federal Employees program. The data are reported to BLS by the employment security agencies of the 50 states, the District of Columbia, and Puerto Rico.

One challenge in using the ES-202 industry data is that the U.S. government does not disclose data when necessary to protect the identity of cooperating employers. For example, the U.S. government does not provide statistics when a single establishment represents 80 percent or more of the industry's employment in a particular geographic area, when the sector has fewer than three establishments, or when specifically requested by a state to protect a company's identity. Content First uses a variety of methods to overcome these disclosure problems, including an analysis of broad level 3-digit SIC codes along with available 4-digit SIC codes.

The employment, wage, payroll, and establishment data used in this report include both civilian and commercial aerospace and aviation workers. Government workers include local, state, and federal employees who are classified as working in the 13 aerospace and aviation SIC codes listed in the definition section of this report. These government employees are civilian employees. Due to the limitations of the SIC system, we are not able to include military employees.

## EMPLOYMENT

The ES-202 program represents the number of covered workers who worked during, or received pay for, the pay period that included the 12th day of the month. Virtually all workers are reported in the state where their jobs are physically located.

Covered private industry employment includes most corporate officials, executives, supervisory personnel, professionals, clerical workers, wage earners, pieceworkers, and part-time workers. It excludes proprietors, the unincorporated self-employed, unpaid family members, and certain farm and domestic workers. Monthly employment data for the year are averaged together to determine annual average employment for each industry sector.

Collecting the most recently available data from each state Labor Market Information office allowed us to produce the 2001 preliminary state employment data. State 2001 ES-202 statistics were supplemented with Current Employment Survey data. 2001 data are preliminary and subject to revision.



# METHODOLOGY

## **PAYROLL**

Payroll represents the total compensation paid during the calendar year, regardless of when the services were performed. Under most state laws or regulations, wages include bonuses, stock options, the cash value of meals and lodging, tips and other gratuities, and in some states, employer contributions to certain deferred compensation plans such as 401(k) plans. Contributions for old-age, survivors, disability insurance, health insurance, unemployment insurance, workers' compensation, and private pension and welfare funds are not reported as wages. Employee contributions for the same purposes, however, as well as money withheld for income taxes, union dues, and so forth are reported even though they are deducted from the worker's gross pay.

## **WAGES**

The annual average wage for aerospace and aviation industry employees is calculated by dividing payroll by employment. Likewise, the total U.S. and state wages for all industries are calculated by dividing the total payroll for the state by the total employment in the state. All wage and payroll statistics are adjusted for inflation to 2000 dollars, using the Consumer Price Index for all urban consumers.



## **ESTABLISHMENTS**

An establishment is an economic unit, such as a factory or store that produces goods or provides services. It is typically at a single physical location and engaged in one, or predominantly one, type of economic activity for which a single industrial classification may be applied.

## **AEROSPACE AND AVIATION JOBS PER 1,000 WORKERS**

This figure is calculated by dividing aerospace and aviation employment by total employment and multiplying that by 1,000.

## **ROUNDING**

Data often are rounded in this report. The rounded numbers, however, should not be construed as the exact numbers. In some instances, two states might appear to have the same numbers, but are ranked differently. For example, both Oregon and North Carolina have 10 aerospace and aviation workers per 1,000 total workers. Yet, Oregon is ranked 33rd and North Carolina is ranked 34th. When the data are taken to the tenth's place, Oregon has 10.0 aerospace and aviation workers per 1,000, while North Carolina has 9.9.

# ABOUT CONTENT FIRST

Content First is a full-service research and information services firm based in Washington, DC. We provide research and information services to trade associations, businesses, law firms, consulting firms, and the public affairs community.

In today's competitive and information-rich economy, having the right research is no longer an option. Whether our clients are making strategic business decisions or building their reputations, content is key.

We utilize a unique process that melds solid research and analysis with presentation and communication. With these components, we bring data to life. Without effective presentation and communication, research alone will not deliver the results our clients need.

The Content First team consists of seasoned professionals with more than 30 years of experience in producing nationally recognized industry research and policy analysis. Our experienced team knows how to develop the best research, industry data, and policy analysis to support the business needs of our clients.

Our tailored products and services allow our clients to:

- ◆ Make informed business decisions
- ◆ Improve their competitive advantage
- ◆ Increase their visibility
- ◆ Satisfy their customers
- ◆ Save time and money

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