
**ARIZONA 1999
INTENTIONAL JOB DISCRIMINATION
IN
METROPOLITAN AREAS**

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By the same authors

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The views expressed are those of the authors,
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§1. ABOUT THE AUTHORS

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§3. DEDICATION

To the memory of all those who shared in the adoption of the Northwest Ordinance of 1787 that prohibited slavery and provided that “schools and the means of education shall forever be encouraged.”

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§6. INTRODUCTION

This study identifies intentional employment discrimination in Arizona by applying legal standards to the race, sex and ethnic composition of medium and large employers. It is based on information supplied by employers to the Federal Government, by 2,166 establishments in this state. To preserve confidentiality, the information on which this report is based does not include the names or identifying addresses of employers.

With a grant from the Ford Foundation to Rutgers Law School, we have compared the employment of minorities and women in the same labor market, industry and occupational categories among establishments with 50 or more employees. The minorities are Black, Hispanic, Asian and Native Americans. When these comparisons show that an establishment is so far below the average utilization of minorities or women that it is unlikely to have occurred by chance, the law identifies apparent intentional job discrimination.

Intentional discrimination exists “when a complaining party demonstrates that race, color, religion, sex or national origin was a motivating factor for any employment practice, even though other factors also motivated the practice.”¹ This means that intent need not be the sole factor in an employment decision. It is enough to show that it was one of the motivating factors. If an employer has both a legitimate reason for its practices and also a discriminatory reason, then it is engaged in discrimination under the Civil Rights Act. This discrimination may be established with employment statistics, which minimize the role of chance.

§7. SUMMARY OF FINDINGS

(Terms defined in glossary at end of chapter.)

C. STATEWIDE DISCRIMINATION

Minority and Female workers in metropolitan Arizona faced substantial likelihood of intentional job discrimination when seeking an employment opportunity in 1999. **Minorities** faced this risk 27% of the time they sought job opportunities; **Women** faced this risk more than 21% of the time they sought job opportunities.

Table 1. Discriminating Establishments and Affected Workers – 1999

Arizona: Discriminating Establishments and Affected Workers – 1999			
Group	All Discriminating Estab.		Affected Workers*
	#	% of all Estab.	#
White Women**	445	30%	7,915
Black	149	29%	1,543
Hispanic	705	35%	9,815
Asian-Pac.	68	38%	899
Totals	1,367		20,172
* "Affected workers" are the difference between the members of an affected group employed in an establishment that is 2 standard deviations or more below the average utilization in the MSA, Industry and Occupation, and the number who would have been employed if members of that group had been employed at that average.			
** White Women as % of All Women: 70.91% They are reported here. Minority group women are reported as minorities. [See Table 9]			

- **13,320 minority workers were adversely affected by discrimination in 816 establishments.** There was a 27% chance that a minority person would face intentional discrimination when seeking an employment opportunity in one of the nine occupational categories. [Table 13] **This was more than a quarter of the time a minority worker sought an employment opportunity.²** That opportunity may have consisted of obtaining employment, or of any condition or privilege of employment once obtained including promotion, pay, training, transfer, discipline, layoff and discharge. This was the burden imposed because of race or national origin on every minority worker seeking an employment opportunity.
- **1,543 Black workers** were affected by discrimination in 149 establishments. This was 29% of the establishments reporting concerning Black workers. **The risk of discrimination existed 27% or more than one third of the time a Black worker sought an employment opportunity.** [Table 14]
- **9,815 Hispanic workers** were affected by discrimination in 705 establishments. This was one third of the establishments reporting concerning Hispanic workers. **The risk of discrimination existed 27% or more than a quarter of the time a Hispanic worker sought an employment opportunity.** [Table 15]

- **899 Asian workers** were affected by discrimination in 68 establishments. This was 42% of the establishments reporting concerning Asian workers. **The risk of discrimination existed 33% or more than a third of the time an Asian worker sought an employment opportunity.** [Table 16]
- **11,163 Women** were affected by intentional job discrimination in 627 establishments. This was 42% of all establishments reporting concerning women workers. [Table 12] **The risk of discrimination was 21% or one fifth of the time a woman sought an employment opportunity.** [Table 12]

Women were 70.9% White, 4.8% Black, 19.3% Hispanic, 3% Asian Pacific, 2% Native American.

To avoid double counting women in this summary, the following five tables report 70.9% of women workers as White. [Table 9] The remaining 29.1% of women are included under Black, Hispanic, and Asian headings.

D. HARD CORE DISCRIMINATION

Table 2. Hard Core Discriminators and Affected Workers – 1999

Arizona -- 1999 Hard Core Establishments* & Affected Workers**				
Group	Hard Core Estab.		Affected Workers	
	#	% of all Estab.	# of Workers	% of all Affected Workers in Group
White Women***	112	5.00%	2,440	30.83%
Black	14	3.00%	400	25.92%
Hispanic	118	6.00%	2,472	25.19%
Asian-Pacific	4	2.00%	154	17.13%
Totals	248		5,466	
* Discrimination at 2.5 standard deviations or more below average in MSA, industry and occupation over at least 9 years.				
**Affected workers are the difference between the number of members of an affected group employed in an establishment, and the number of such workers who would have been employed if the employer had employed that group at the average.				
*** White Women as % of All Women: 70.91% They are reported here. Minority group women are reported as minorities. [See Table 9]				

- **156 Hard Core discriminators accounted for nearly 30% of the minority workers affected by discrimination.** [Table 11] They accounted for 400 **Black workers (25% of all affected Black workers), 2,472 Hispanic workers (25% of all affected Hispanic workers), and 154 Asian workers (17% of all affected Asian workers).**

E. GEOGRAPHIC DISTRIBUTION OF DISCRIMINATION

Table 3. Main MSAs in Arizona

Affected Workers* in EEO-1 Labor Force in the Largest Metro Statistical Areas – Arizona									
* "Affected Workers" are the difference between the number of members of an affected group employed in an establishment, and the number of such workers who would have been employed if the employer had employed that group at the average.									
** White Women as % of All Women: 71% They are reported here. Minority group women are reported as minorities. [See Table 9]									
Group	Phoenix MSA Affected Workers		Tucson MSA Affected Workers		Las Vegas, AZ MSA Affected Workers		These 3 MSAs Affected Workers		State Totals
	#	% of Group	#	% of Group	#	% of Group	#	% of Group	#
W. Women**	7,179	91%	609	8%	35	0%	7,823	99%	7,915
Blacks	1,180	76%	4	0%	359	23%	1,543	100%	1,543
Hispanics	8,446	86%	974	10%	217	2%	9,637	98%	9,815
Asian-Pac	730	81%	34	4%	135	15%	899	100%	899
Total	17,535	87%	1,622	8%	746	4%	19,902	99%	20,172

These three MSAs account for 99% of all affected workers in this state. The Phoenix and Las Vegas MSAs account for 99% of the affected Black workers and 96% of the affected Asian workers. The Phoenix and Tucson MSAs account for 99% of the affected White Women workers and 96% of the affected Hispanic workers.

F. DISCRIMINATION BY OCCUPATION

- **Discrimination against each group occurred in each of the nine occupational categories.**

Table 4. Occupational Discrimination in Arizona – 1999

DISCRIMINATION* IN OCCUPATIONS -- Arizona -- 1999								
Occupation	WHITE WOMEN**		BLACKS		HISPANICS		ASIAN PACIFIC	
	Risk of Disc. %	Affected Workers** #	Risk of Disc. %	Affected Workers #	Risk of Disc. %	Affected Workers #	Risk of Disc. %	Affected Workers #
O & M	19.00%	530	31.00%	51	20.00%	181	33.00%	9
Prof	24.00%	1,198	36.00%	33	14.00%	211	24.00%	183
Tech	20.00%	457	15.00%	68	16.00%	192	22.00%	78
Sales	20.00%	1,311	44.00%	219	33.00%	2,381	50.00%	24
O & C	19.00%	1,720	24.00%	504	22.00%	1,338	64.00%	67
Craft	37.00%	317	29.00%	8	25.00%	570	60.00%	16
Oper	26.00%	1,115	23.00%	204	28.00%	1,408	34.00%	426
Labor	20.00%	303	32.00%	149	34.00%	1,042	78.00%	62
Service	17.00%	961	27.00%	307	30.00%	2,494	100.00%	33
Any Occ	30.00%	7,915	29.00%	1,543	35.00%	9,815	38.00%	899
TOTAL AFFECTED WHITE WOMEN, BLACKS, HISPANICS AND ASIANS = 20,172								
* Discrimination at 1.65 standard deviations or more below average in industry and MSA.								
** 70.91% of Women are White. They are reported here. Minority Women are reported in each minority group. [See Table 9]								
*** Affected workers are the difference between the members of a group employed in an establishment that is 2 standard deviations or more below the average utilization of that group in the same MSA, Industry and Occupation, and the number of members who would have been employed if members had been employed at the average utilization.								

G. DISCRIMINATION BY INDUSTRY

- Arizona is similar to the national pattern of industries engaged in intentional discrimination, with few exceptions. The top ten industries in terms of affected workers nationally are: Hospitals, Department Stores, Eating and Drinking Places, Computer and Data Processing, Telephone Communications, Grocery stores, Commercial banks, Motor Vehicles and Accessories, Scheduled Air Transportation, and Nursing and personal care facilities. These industries have large numbers of employees. They discriminate against Women, Blacks, Hispanics and Asians. As the following summary table shows, Arizona varies little from the pattern.

Table 5. Top Ten Discriminatory Industries in Number of Affected Workers - Arizona, 1999

Blacks, Hispanics, Asians	# Affected Workers	# Estab.	White Women	# Affected White Women Workers	# Estab.
Grocery Stores	1,707	168	Grocery Stores	660	40
Eating & Drinking Places	1,285	103	Eating & Drinking Places	599	60
Hotels & Motels	776	32	Department Stores	512	42
Department Stores	714	50	Hospitals	497	25
Hospitals	706	24	Telephone Communication	434	30
Elect. Components & Accessories	617	27	Health & Allied Svcs.	402	14
Trucking & Courier Svcs., Ex. Air	474	18	Commercial Banks	396	19
Commercial Banks	409	23	Computer & Data Proc. Svcs.	369	22
Telephone Communication	352	27	Electronic Components & Accessories	298	25
Nurs. & Personal Care Facilities	289	27	Air Transport., Scheduled	294	10
Totals	7,330	499	Totals	4,461	287

§8. BACKGROUND OF THIS STUDY

Each year, private sector employers of more than 100 employees and government contractors of more than 50 employees are required to file a report, named EEO-1, on the race, sex, and ethnic composition of its workforce by nine occupational categories.

This study describes the extent of intentional job discrimination among private sector establishments in metropolitan areas with 50 or more employees who have filed EEO-1 reports in metropolitan statistical areas (MSA's). It includes discrimination by occupational category and by industries for which we have sufficient data. The industries are identified by the Standard Industrial Classification system, 1987 (SIC). The definitions of MSA and SIC are set forth in Part I of the National Report, and in its Appendix.³

The analysis of employer EEO-1 reports is explained in Part I of the National Report. See the National Report, Part I for a full explanation of the definitions and methodology used in this study.

This study has identified the average – mean – use of minorities or women by all establishments in the same labor market, industry and occupation. All establishments that have 20 or more employees in that industry and occupation are then compared to the mean.⁴ Table 1 is an example of such a comparison, taken from an earlier report in the State of Washington. It graphically explains why we call this a “sore thumb” diagram.

Table 6. Sore Thumb Example: Percent Females Among Sales Employees Security Dealers and Brokers in the Seattle Metropolitan Area, 1997

Number of Establishments	4																																		
	3																																		
	2																																		
	1		Sore thumb																																
	0	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50									
	Percent of Employees in Each Establishment * 20 is the Average (Mean) due to variations in establishment sizes																																		

To determine whether the utilization of minorities or women by an establishment, such as in the above table, has occurred by chance, statisticians use a measurement device called “standard deviations.” The greater the standard deviations below the average, the less likely it is that the observed event occurred by chance. The law uses this concept to identify a pattern of intentional job discrimination. The greater the deviations, the stronger the evidence of intentional job discrimination.

§9. INTENTIONAL DISCRIMINATION⁵

“Intentional Discrimination” exists “when a complaining party demonstrates that **race, color, religion, sex or national origin was a motivating factor for any employment practice, even though other factors also motivated the practice.**”⁶

This means that the intent need not be the sole factor in an employment decision. It is enough to show that it was one of the motivating factors. If an employer has both a legitimate reason for its practices and also a discriminatory reason, then it is engaged in intentional discrimination under the Civil Rights Act.

The Supreme Court held in 1977 that a “pattern or practice” of intentional job discrimination exists when an employer treats some people less favorably than others as a “standard operating procedure – the regular rather than the unusual practice.”⁷ When there is statistical evidence that an establishment is employing minorities or women in such small numbers that the pattern is unlikely to have occurred by chance, the law presumes that the discrimination is intentional.⁸ The Supreme Court has explained that “[a statistical] imbalance is often a telltale sign of purposeful discrimination.... In many cases the only available avenue of proof is the use of racial statistics to uncover clandestine and covert discrimination...”⁹

Statisticians have developed concepts to determine when it is unlikely that a given result occurred by chance. In many analyses, including this study, an event qualifies as “statistically significant” if there is less than one chance in twenty (5%) that it would have occurred by chance. This probability is defined as “two standard deviations.” In some parts of this study, the value of 2.5 standard deviations is used. This value translates into one chance in 100 that the event observed occurred by chance, or a 99% certainty that it did not occur by chance. We apply these concepts to find the “sore thumbs” in each metropolitan area and in each industry and each job category.

Table 7. Probabilities of Discrimination and Legal Presumptions

Standard Deviations	Probability		Described in this study as:	Legal effect
	Chance	Not chance		
1.65	1 in 10	90%	At Risk	Admissible if relevant; weighed with all other evidence; worker must prove that he/she was discriminated against.
2.0	1 in 20	95%	Presumed	Admissible; creates presumption of discrimination; employer must prove it had only legitimate non-discriminatory reasons. As the probability of result occurring by chance declines, the presumption of discrimination strengthens and raises the risk that employer will lose litigation; most such cases settle.
2.5	1 in 100	99%	Clearly Visible	
2.5 over 10yrs			Hard Core	

This study identifies four degrees of intentional job discrimination depending on the statistics in particular situations.

1. **AT RISK DISCRIMINATORS.** So far below average in an occupation that there is only a one in ten (10%) chance that the result occurred by accident (1.65 standard deviations) in 1999 plus fact specific evidence relating individual complainants to the occupation addressed by the statistics. The statistics play a supporting role. We do not know the specific facts in those situations and therefore report no “affected workers” in this category.
2. **PRESUMED DISCRIMINATORS.** So far below average in an occupation that there is only a one in twenty (5%) chance that the result occurred by accident (2 standard deviations). Intentional discrimination is presumed by law at this level, subject to the employer demonstrating that it had a legitimate non-discriminatory reason and overcoming the presumption of discrimination. Number of affected workers is identified.
3. **CLEARLY VISIBLE DISCRIMINATORS.** So far below average in an occupation that there is only a one in one hundred (1%) chance that the result occurred by accident (2.5 standard deviations) in 1999. Number of affected workers is identified.
4. **HARD CORE DISCRIMINATORS.** These establishments demonstrate a severe statistical case of discrimination that has existed over a long period of time. They are so far below average in an occupation that there is only a one in one hundred chance that the result occurred by accident (2.5 standard deviations) in 1999 and either 1998 or 1997, and at least one year between 1991 and 1996, and not above average between 1991 to 1996. Included are

establishments that are more than 2.5 standard deviations below the mean and have been so for longer than ten years.

§10. THE SIGNIFICANCE OF THE EEO-1 LABOR FORCE

Table 8 describes the **Total Population** eighteen years and older of the state in the categories of Male, Female, White, Black, Hispanic, Asian and Native American.¹⁰ It also describes the **EEO-1 Population** of the state, being all workers employed by establishments that file EEO-1 reports for this state, including those outside any MSA. Finally, it describes the **EEO-1 Labor Force**, all employees of establishments located in metropolitan areas (MSA's) with 50 or more employees that file EEO-1 reports for this state.

The EEO-1 Population and Labor Force are based only on the actual numbers reported by establishments. Thus the state study does not include from 20 to 30% of establishments that were obligated to, but failed to file such reports.¹¹ Readers may assume, with caution, that the statistics reported here reflect from 70% to 80% of the intentional visible job discrimination in this state.

[Table on next page.]

Table 8. Arizona Adult Population, EEO-1 Population and Labor Force by Sex, Race, and Hispanic Origin – 1999

Arizona	TOTAL POPULATION 18 AND OVER*		EEO-1 POPULATION		EEO-1 LABOR FORCE	
Total	3,763,685		680,778		648,041	
Male	1,859,746	49%	362,758	53%	344,210	53.12%
Female	1,903,939	51%	318,020	47%	303,831	46.88%
		% of Total		% of Total	#	% of Total
White	2,974,910	79%	474,409	70%	452,654	69.85%
Black	107,926	3%	30,829	5%	30,144	4.65%
Hispanic	802,474	21%	141,972	21%	134,499	20.75%
Asian	71,144	2%	19,816	3%	19,420	3.00%
Native Amer.	155,283	4%	13,752	2%	11,324	1.75%
Comments	* Census treats Hispanics as of any race, so totals may exceed 100%		EEO-1 Population includes employees working both inside and outside of MSAs and for employers of any size workforce.		EEO-1 Labor Force includes employees working inside an MSA for an employer of 50 or more employees.	
Employed Labor Force	Total Employed Labor Force: 2,260,000		EEO-1 Population: 30.12% of the employed labor force		EEO-1 Labor Force: 95.19% of the EEO-1 Population, and 28.67% of the total employed labor force.	

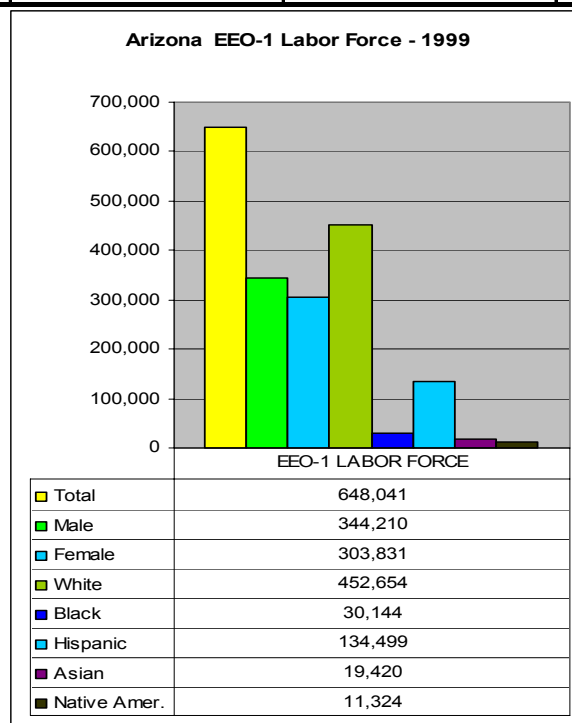
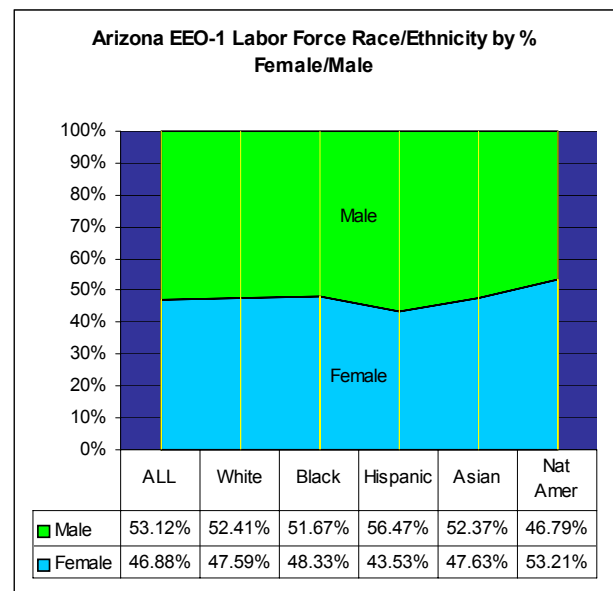
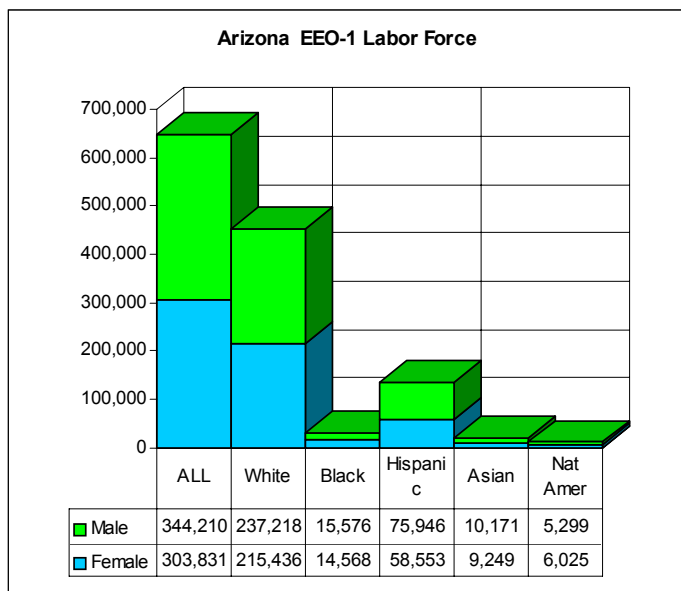


Table 9. The Arizona EEO-1 Labor Force by sub categories of race, sex, and ethnicity: Showing proportions of minorities in each gender, and proportions of each gender among minorities

Arizona EEO-1 LABOR FORCE MALE/FEMALE					
	Total	Female	Male	Percentages	
				Female	Male
ALL	648,041	303,831	344,210	46.88%	53.12%
White	452,654	215,436	237,218	47.59%	52.41%
Black	30,144	14,568	15,576	48.33%	51.67%
Hispanic	134,499	58,553	75,946	43.53%	56.47%
Asian	19,420	9,249	10,171	47.63%	52.37%
Nat Amer	11,324	6,025	5,299	53.21%	46.79%

This table provides an overall assessment of the proportion of women and men in each racial/ethnic category.
 For example, Asians who are Female: 47.63%
 A chart below shows that 3.0% of Females are Asian.

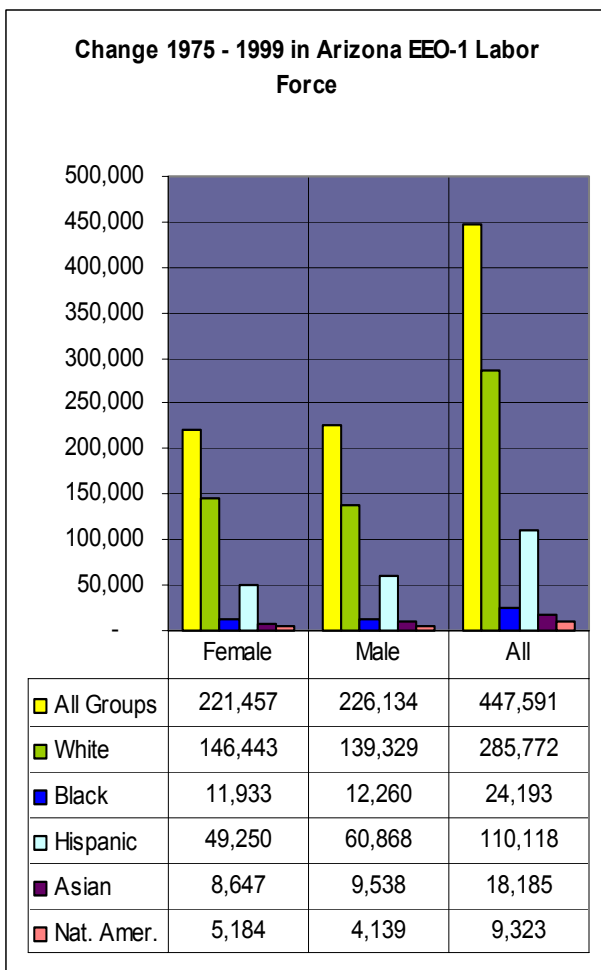


§11. THE EFFECT OF CHANGE -- 1975 TO 1999

The EEO-1 Labor Force consists of employees of employers who have filed EEO-1 forms and (a) are located in metropolitan areas and (b) have 50 or more employees. This labor force has changed dramatically in the years between 1975 and 1999.

Table 10. Arizona EEO-1 Labor Force in 1975 and 1999.

Arizona Employment in MSAs in Establishments over size 50								
	Number				%	Percent of Total		
	Female	Male	All			Female	Male	All
1975								
All Groups	82,374	118,076	200,450		41.09%	100.00%	100.00%	100.00%
White	68,993	97,889	166,882		41.34%	83.76%	82.90%	83.25%
Black	2,635	3,316	5,951		44.28%	3.20%	2.81%	2.97%
Hispanic	9,303	15,078	24,381		38.16%	11.29%	12.77%	12.16%
Asian	602	633	1,235		48.74%	0.73%	0.54%	0.62%
Nat. Amer.	841	1,160	2,001		42.03%	1.02%	0.98%	1.00%
1999								
All Groups	303,831	344,210	648,041		46.88%	100.00%	100.00%	100.00%
White	215,436	237,218	452,654		47.59%	70.91%	68.92%	69.85%
Black	14,568	15,576	30,144		48.33%	4.79%	4.53%	4.65%
Hispanic	58,553	75,946	134,499		43.53%	19.27%	22.06%	20.75%
Asian	9,249	10,171	19,420		47.63%	3.04%	2.95%	3.00%
Nat. Amer.	6,025	5,299	11,324		53.21%	1.98%	1.54%	1.75%



The increase in proportions of Women, Black, Hispanic and Asian employees is also evident in the adjoining chart showing the same data as above with emphasis on the changes between '75 and '99.

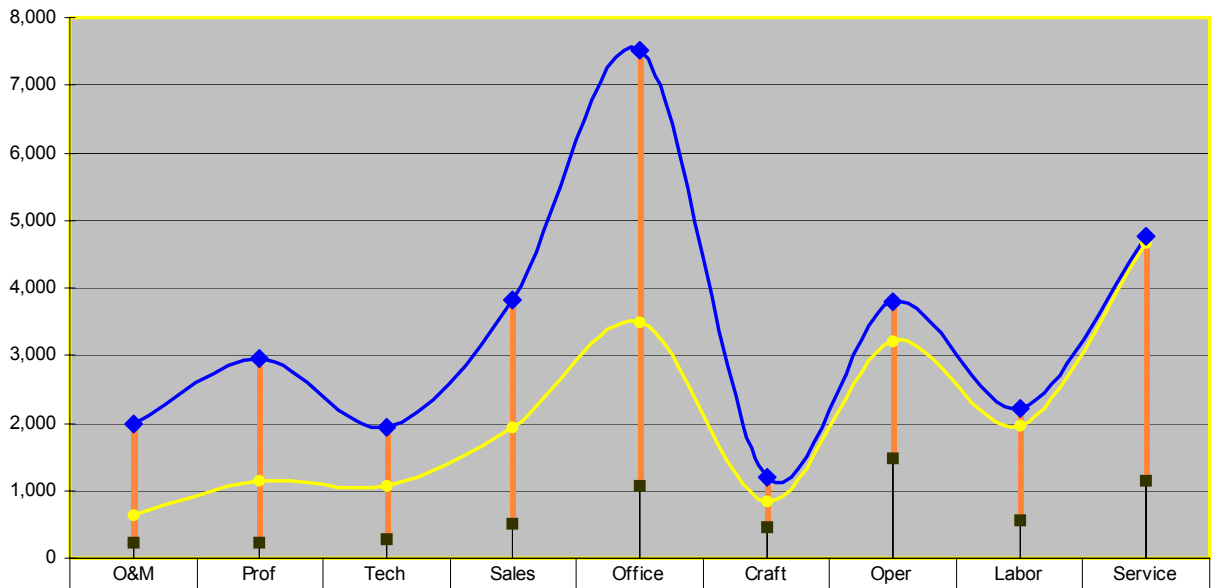
A. RACE/ETHNICITY

The charts on the next two pages show the rising tide of employment among Blacks, Hispanics, Asian, and Native American workers from 1975 to 1999, often exceeding in 1999 (the blue line) the distribution that would have been expected had the distribution of jobs continued in the same proportions as in 1975 (the yellow line).

**Table 10a. The Rising Tide:
 Black, Hispanic, Asian-Pacific Origin,
 and Native American Workers**

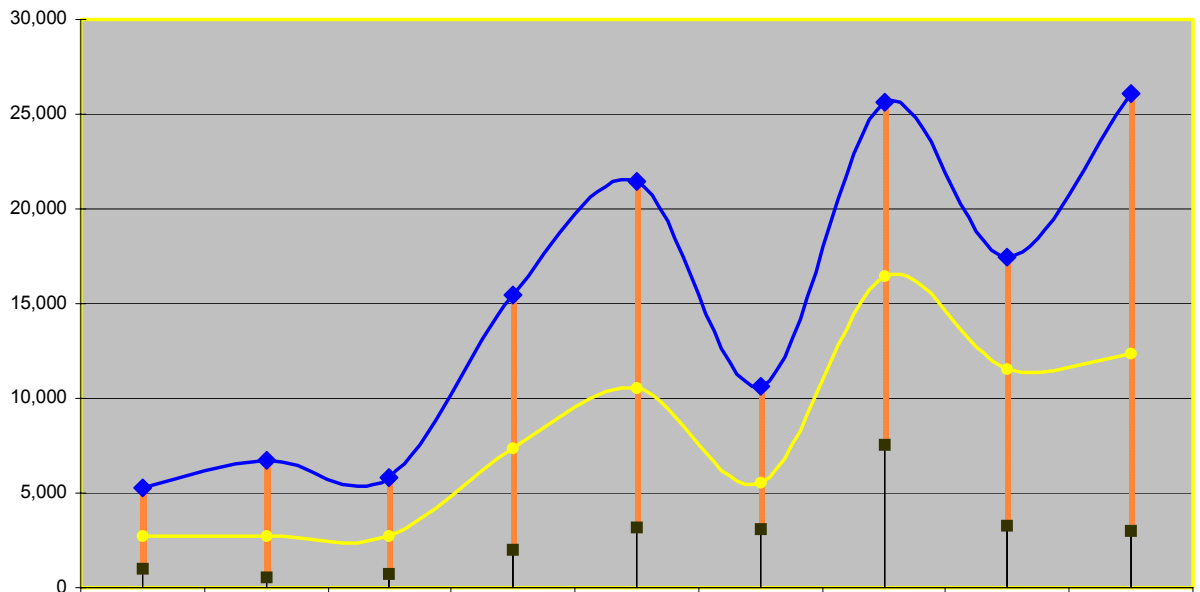
[Next page.]

Arizona: Blacks 1975 - 1999



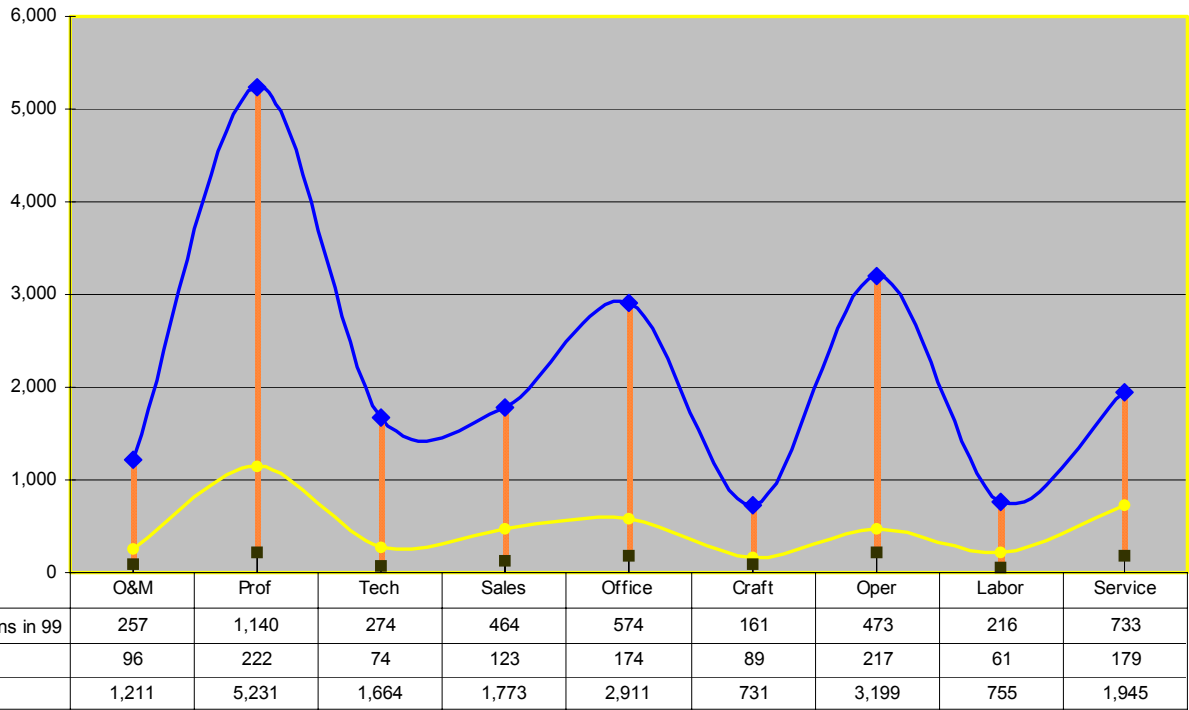
	O&M	Prof	Tech	Sales	Office	Craft	Oper	Labor	Service
75 Dist of Blacks in 99	644	1,134	1,063	1,940	3,501	840	3,204	1,965	4,654
1975 Blacks	240	221	287	514	1,062	464	1,471	556	1,136
1999 Blacks	1,983	2,947	1,939	3,816	7,508	1,196	3,795	2,208	4,752

Arizona: Hispanics 1975 - 1999

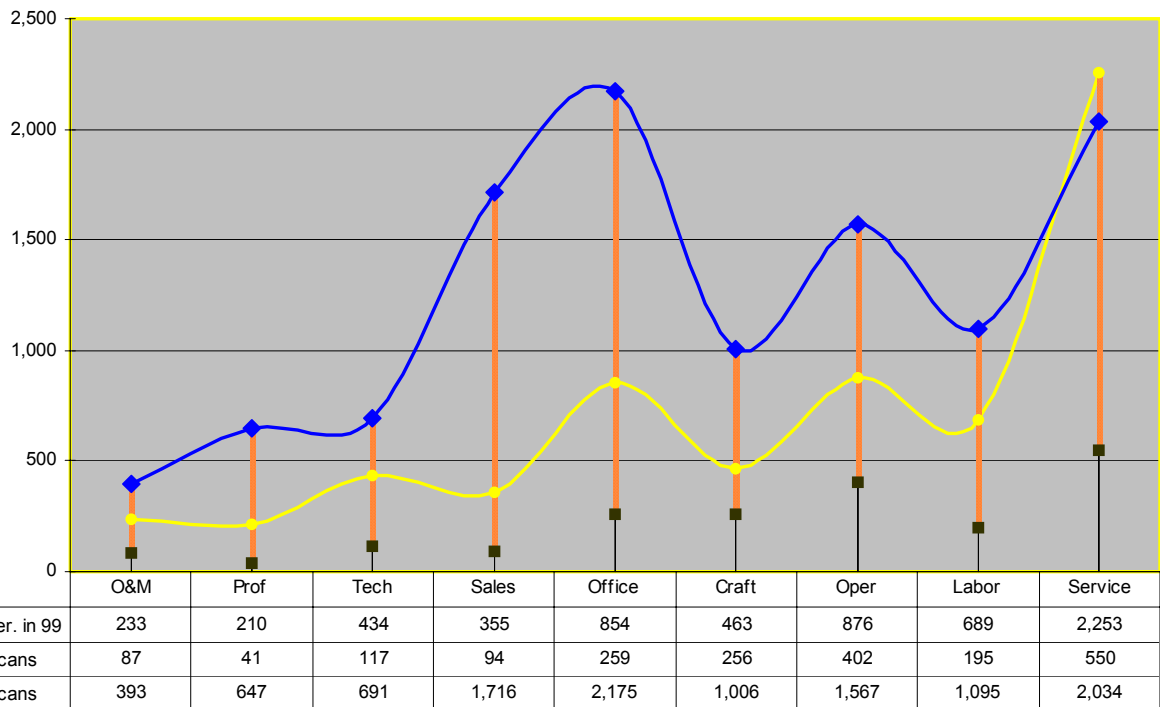


	O&M	Prof	Tech	Sales	Office	Craft	Oper	Labor	Service
75 Dist of Hispanics in 99	2,773	2,767	2,723	7,397	10,583	5,550	16,472	11,500	12,377
1975 Hispanics	1,034	539	735	1,960	3,210	3,066	7,562	3,254	3,021
1999 Hispanics	5,293	6,708	5,783	15,464	21,425	10,597	25,624	17,485	26,120

Arizona: Asians 1975 - 1999



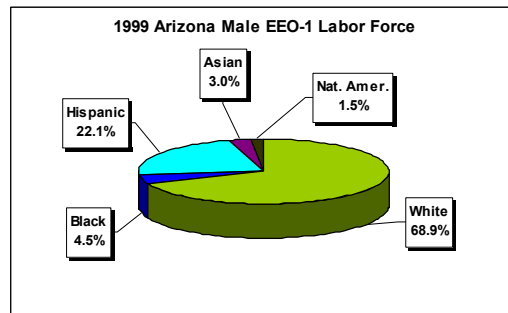
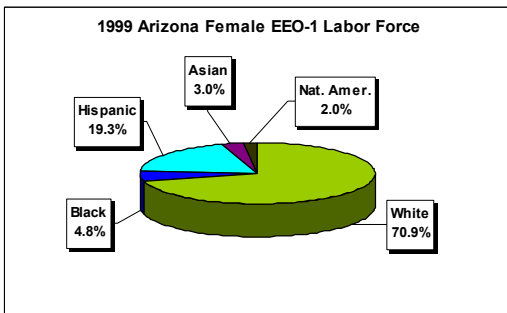
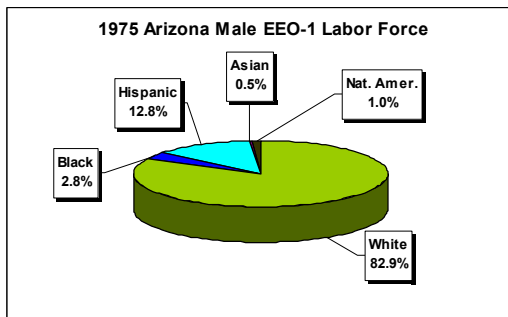
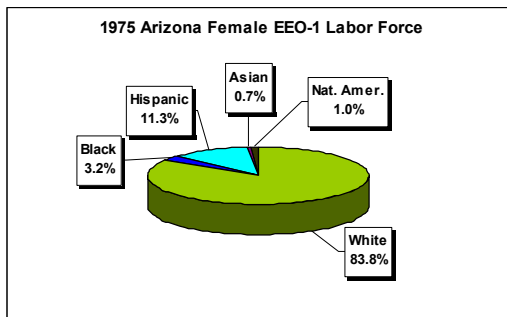
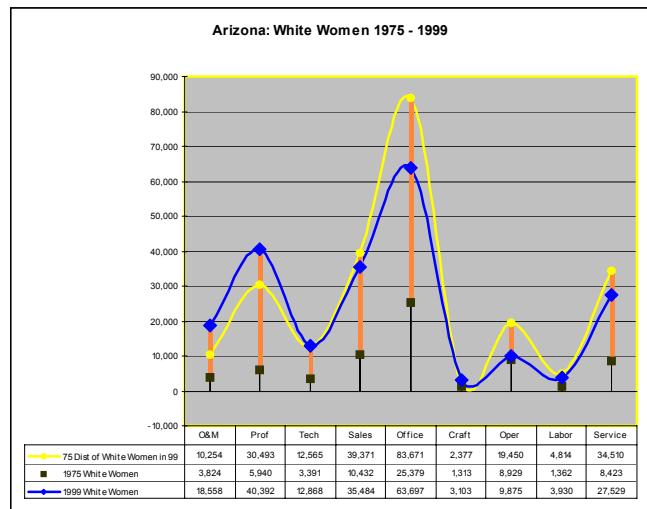
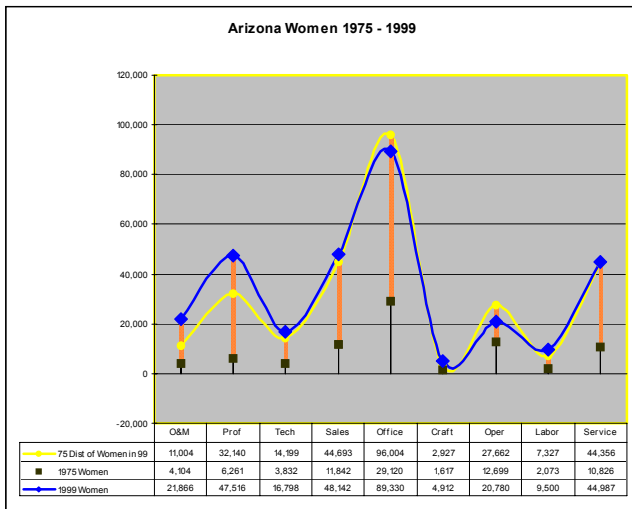
Arizona: Native Americans 1975 - 1999



B. GENDER AND RACE/ETHNICITY

In Arizona, changes in proportions of White Women in the workforce mirrored changes both for Women and for Whites. The lines on the following two “rising tide” charts show the effects of change for all Women and for White Women. The following four pie charts show that the proportion of White Women to all women was about the same as the proportion of White Men to all Men both in 1975 and in 1999, although the proportion of Whites (both male and female) to other groups changed over that period of time.

Table 10b. Effect of change on Women, White Women, Minority Women and Men.



This study examines how employers have addressed the emerging reality described above: that the number and proportion of qualified minority and female workers has been increasing. Many employers changed exclusionary practices and informally included more minorities and women. Others adopted more formal affirmative action programs. During this period, many reduced their use of pro forma screening devices such as written tests. They increased reliance on subjective judgments of supervisors that may harbor discrimination.¹² The discriminatory character of these judgments may become visible only when a pattern of similar activity is observed—often when the employer is compared to similar establishments. When the comparison yields a significant disparity, the Supreme Court has concluded that there is “substantial reason, based upon the statistical manifestations of the net effects of the employer’s practices, to believe that the employer has violated Title VII on a continuing basis.”¹³

Using this principle we have evaluated establishments in each industry and each metropolitan statistical area for which we have data. This enables us to identify those that are so far below the average utilization of minorities and women in particular occupations that the law presumes that intentional discrimination has taken place.¹⁴

§12. INTENTIONAL DISCRIMINATION IN NINE OCCUPATIONAL CATEGORIES AGAINST WOMEN AND MINORITIES, AND AGAINST BLACKS, HISPANICS AND ASIANS

The following table describes the probability that a worker will face discrimination in seeking an employment opportunity in one of the nine occupational categories reported in form EEO-1.¹⁵ They are: O& M = Official & Managers, Prof = Professionals, Tech = Technical workers, Sales = Sales workers, O & C = Office and Clerical, Craft = Craft workers-skilled, Oper = Operatives - semi skilled, Labor = Laborers - unskilled, Service = Service workers.

The likelihood of discrimination is found under the heading “**All Discriminating Establishments**” in bold face. This percentage represents the probability that a person with the race, sex, or ethnic characteristic listed will face intentional job discrimination when seeking an employment opportunity in any of the nine occupational categories. That opportunity may consist of obtaining employment, or of any condition or privilege of employment once obtained, including promotion, pay, training, transfer, discipline, layoff and discharge. This

is the burden imposed on every member of each group because of his or her identification with that group when seeking an employment opportunity.

The last four columns in the table examine the extent of “Hard Core” discrimination as defined above and in Part I of the National Report. These establishments are so far below average in an occupation that there is less than one in one hundred chances that the result occurred by accident (2.5 standard deviations) in 1999 and either 1998 or 1997, and in at least one year between 1991 and 1996, and was never above average between 1991 and 1996. This category includes establishments that are 2.5 standard deviations or more below the average, and have been so for ten years or longer. It also includes establishments where the discrimination far exceeds 2.5 standard deviations. Hard Core establishments are a sub-set of discriminating establishments.

“Hard Core” establishments impose more than 60% of the burden of discrimination on minorities. 44% percent of the burden on women flows from “Hard Core” establishments.

Table 11. Arizona Discriminators by Sex, Race/Ethnicity, Occupation & Hard Core

[See next page.]

Occupational Discrimination in Arizona								
Group	Occupation	All Discriminators			Hard Core Discriminators			
		Establishments		Affected Workers	Establishments		Affected Workers	
		#	%	#	#	%	#	% of all Affected Workers
Female	O & M	83	19%	748	10	2%	185	24.73%
	Prof	116	24%	1,690	17	4%	590	34.91%
	Tech	45	20%	645	6	3%	111	17.21%
	Sales	156	20%	1,849	32	4%	677	36.61%
	O & C	119	19%	2,426	20	3%	644	26.55%
	Craft	41	37%	447	7	6%	121	27.07%
	Oper	86	26%	1,573	14	4%	703	44.69%
	Labor	37	20%	428	11	6%	179	41.82%
	Service	99	17%	1,356	8	1%	230	16.96%
Any Occ	627	30%	11,163	112	5%	3,441	30.83%	
Minority	O & M	55	16%	295	2	1%	24	8.14%
	Prof	69	16%	566	5	1%	139	24.56%
	Tech	43	18%	444	4	2%	101	22.75%
	Sales	268	34%	3,235	69	9%	1,389	42.94%
	O & C	161	26%	2,164	21	3%	561	25.92%
	Craft	68	27%	768	6	2%	143	18.62%
	Oper	120	29%	1,814	18	4%	293	16.15%
	Labor	76	32%	987	16	7%	296	29.99%
	Service	179	31%	3,047	41	7%	1,093	35.87%
Any Occ	816	38%	13,320	156	7%	4,039	30.32%	
Black	O & M	9	31%	51	0	0%	0	0.00%
	Prof	4	36%	33	1	9%	12	36.36%
	Tech	7	15%	68	1	2%	12	17.65%
	Sales	29	44%	219	5	8%	75	34.25%
	O & C	49	24%	504	5	2%	142	28.17%
	Craft	2	29%	8	0	0%	0	0.00%
	Oper	25	23%	204	3	3%	55	26.96%
	Labor	16	32%	149	1	2%	33	22.15%
	Service	32	27%	307	2	2%	70	22.80%
Any Occ	149	29%	1,543	14	3%	400	25.92%	
Hispanic	O & M	36	20%	181	1	1%	9	4.97%
	Prof	27	14%	211	3	2%	59	27.96%
	Tech	32	16%	192	2	1%	38	19.79%
	Sales	239	33%	2,381	48	7%	748	31.42%
	O & C	121	22%	1,338	9	2%	264	19.73%
	Craft	61	25%	570	5	2%	91	15.96%
	Oper	113	28%	1,408	11	3%	216	15.34%
	Labor	80	34%	1,042	12	5%	209	20.06%
	Service	174	30%	2,494	36	6%	839	33.64%
Any Occ	705	35%	9,815	118	6%	2,472	25.19%	
Asian	O & M	3	33%	9	0	0%	0	0.00%
	Prof	23	24%	183	4	4%	86	46.99%
	Tech	8	22%	78	0	0%	0	0.00%
	Sales	3	50%	24	0	0%	0	0.00%
	O & C	9	64%	67	0	0%	0	0.00%
	Craft	3	60%	16	0	0%	0	0.00%
	Oper	28	34%	426	1	1%	41	9.62%
	Labor	7	78%	62	0	0%	0	0.00%
	Service	3	100%	33	1	33%	27	81.82%
Any Occ	68	38%	899	4	2%	154	17.13%	
Native Amer.	Sales	11	55%	112	0	0%	0	0.00%
	O & C	4	57%	19	0	0%	0	0.00%
	Craft	4	17%	10	0	0%	0	0.00%
	Oper	0	0%	0	0	0%	0	0.00%
	Labor	4	57%	16	0	0%	0	0.00%
	Service	11	52%	87	0	0%	0	0.00%
Any Occ	32	42%	243	0	0%	0	0.00%	

§13. INTENTIONAL DISCRIMINATION BY INDUSTRIES IN METROPOLITAN AREAS AMONG ESTABLISHMENTS WITH FIFTY OR MORE EMPLOYEES¹⁶

These tables describe intentional job discrimination in each industry in a metropolitan statistical area for Minorities, Women and each group included among minorities. The Metropolitan Areas are ranked by the number of affected workers, which is normally related to the number of employees and establishments in the area. The industries are described at the three digit SIC level. Each industry has a possibility of discriminating in each of the occupations for which it has sufficient employees for a comparison. The average which is the benchmark against which each establishment is measured is the average employment in the industry of each group of minorities and women for each occupational category. The percentage of discriminating establishments may exceed 50% of all the reporting establishments.

Discrimination is defined as 1.65 standard deviations or more below the average utilization in the same MSA, SIC and Occupational Category. **Comparisons** are between establishments in same MSA and SIC and Occupational Category. **Affected Workers** represents the difference between the actual utilization by a discriminating establishment that is at least two standard deviations below the average and the utilization that would exist if the discriminating establishment employed at the average in the same MSA, SIC and occupational category. Each table is arranged by the number of affected workers. The industries are titled so that the SIC numbers, which appear in the Appendix to the National Report, can be consulted.

The percent and number of comparisons are helpful in assessing this data. The number of comparisons informs as to the amount of data available in a particular industry. The percentage of discrimination found under the heading "**Comparisons With Discrimination, %**" (in bold face) represents the probability that a person with the listed race, sex, or ethnic characteristics will face intentional job discrimination when seeking an employment opportunity in that industry and Metropolitan Statistical Area in any occupation. This is the burden imposed on every member of each group because of his or her identification with that group when seeking an employment opportunity. That opportunity may consist of obtaining employment, or of any condition or privilege of employment once obtained.

The **Discriminating Establishments** section of the table includes the number of establishments that appear to discriminate. It also contains the

percentage that that number is of all reporting establishments in that industry and MSA. The percentage probability of discrimination may be smaller than percentage of discriminating establishments because each discriminating establishment is counted once, regardless of the number of comparisons in that establishment showing discrimination. This may result where, for example, there are three establishments in an industry. Each has three comparisons, only one of which showed discrimination. All three establishments would all be counted as discriminators (100% of all the establishments), but the percentage of comparisons would only be 33%. The probability of discrimination is based on those categories where discrimination is found, but each establishment is listed as a discriminator.

These tables are presented for Women, Minorities, Blacks, Hispanics and Asians, and Native Americans where available. More information on each group may be found in corresponding chapters of the National Report. In MSAs with many occupations the highest 10 percent of comparisons showing discrimination are indicated by a red number on yellow background and the lowest 10 percent by a brown number on yellow background.

Table 12. Discrimination against Women by MSA & Industry in Arizona

Arizona	DISCRIMINATION AGAINST WOMEN	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%		#	%
MSA	Industry					
PHOENIX-	Grocery Stores	43	13.00%	881	34	15%
MESA	Eating and Drinking Places	62	25.00%	785	55	25%
	Hospitals	30	20.00%	619	21	58%
	Telephone Communication	38	37.00%	612	30	51%
	Department Stores	35	21.00%	566	32	32%
	Commercial Banks	26	24.00%	559	19	40%
	Health and Allied Services	22	26.00%	542	12	39%
	Air Transportation, Scheduled	18	37.00%	414	10	48%
	Electronic Components & Accessories	32	29.00%	409	24	75%
	Groceries and Related Products	23	23.00%	331	14	29%
	Computer, Data Processing Services	24	23.00%	327	19	34%
	Hotels and Motels	27	17.00%	277	20	33%
	Aircraft and Parts	13	29.00%	274	7	44%
	Trucking, Courier Service, Ex. Air	14	30.00%	222	11	50%
	Electrical Goods	13	30.00%	178	7	41%
	Electric Services	5	21.00%	159	2	29%
	Search and Navigation Equipment	5	23.00%	155	4	67%
	Nursing, Personal Care Facilities	15	17.00%	150	14	29%
	Fire, Marine, Casualty Insurance	8	13.00%	144	6	22%
	Retail Stores	4	14.00%	142	3	12%
	Professional & Commercial Equipment	9	25.00%	136	6	50%
	Miscellaneous Plastics Products	10	37.00%	118	7	44%
	Automotive Rentals, No Drivers	13	34.00%	112	10	63%
	Measuring and Controlling Devices	6	21.00%	98	5	63%
	Communications Equipment	7	32.00%	96	5	83%
	Miscellaneous Shopping Goods Stores	9	45.00%	87	9	45%
	Security Brokers and Dealers	7	27.00%	74	7	47%
	Medical Service and Health Insurance	9	17.00%	70	9	47%
	Residential Building Construction	8	23.00%	69	6	40%
	Misc. General Merchandise Stores	7	14.00%	66	6	43%
	Commercial Printing	6	38.00%	62	5	50%
	Credit Reporting and Collection	5	33.00%	59	5	45%
	New and Used Car Dealers	10	14.00%	57	9	31%
	Individual and Family Services	3	23.00%	57	2	33%
	Life Insurance	5	33.00%	54	5	63%
	Offices, Clinics of Medical Doctors	2	17.00%	51	2	25%
	Variety Stores	3	17.00%	47	3	33%
	Computer, Office Equipment	3	20.00%	47	3	38%
	Insurance Agents, Brokers, Service	4	13.00%	44	4	21%
	Business Credit Institutions	3	20.00%	37	3	50%
	Refrigeration and Service Machinery	3	21.00%	34	3	50%
	Fabricated Structural Metal Products	4	24.00%	33	3	30%

Arizona MSA	DISCRIMINATION AGAINST WOMEN Industry	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
	Legal Services	4	13.00%	32	4	27%
	Medical and Dental Laboratories	4	33.00%	32	2	50%
	Passenger Transport Arrangement	2	15.00%	30	1	14%
	Personal Credit Institutions	3	30.00%	28	2	50%
	Radio and TV Broadcasting	5	19.00%	28	4	40%
	Engineering, Architectural Services	6	15.00%	26	5	20%
	Lumber, Other Building Materials	2	7.00%	26	2	7%
	Title Insurance	3	14.00%	23	3	27%
	Motor Vehicles and Equipment	3	30.00%	21	3	75%
	Medical Instruments and Supplies	2	20.00%	20	1	25%
	Home Health Care Services	3	19.00%	19	2	20%
	Wood Buildings and Mobile Homes	2	18.00%	18	1	13%
	Heavy Construction, except Highway	3	21.00%	18	3	33%
	Real Estate Agents, Managers	1	9.00%	17	1	11%
	Newspapers	1	6.00%	15	1	20%
	Radio, TV, & Computer Stores	4	13.00%	15	4	17%
	Motor Vehicles, Parts, and Supplies	3	17.00%	14	3	30%
	Beer, Wine, Distilled Beverages	3	23.00%	14	2	33%
	Accounting, Auditing, Bookkeeping	2	13.00%	11	2	25%
	Guided Missiles, Space Vehicles, Parts	3	25.00%	9	2	67%
	SICs with <10 comparisons	43	25.00%	455	40	28%
PHOENIX-MESA, AZ		695	22%	10,124	549	32%
TUCSON	Computer, Data Processing Services	6	32%	193	3	33%
	Department Stores	11	25%	157	10	40%
	Hospitals	7	22%	82	4	40%
	Eating and Drinking Places	5	12%	61	5	12%
	Hotels and Motels	5	14%	42	5	36%
	Grocery Stores	4	7%	38	4	10%
	Health and Allied Services	2	13%	24	2	22%
	Groceries and Related Products	2	9%	22	2	15%
	New and Used Car Dealers	3	19%	18	3	38%
	Nursing, Personal Care Facilities	1	6%	14	1	8%
	Offices, Clinics of Medical Doctors	1	8%	13	1	20%
	Electronic Components & Accessories	1	4%	11	1	11%
	SICs with <10 comparisons	20	21%	184	19	25%
TUCSON	TOTAL	68	16%	859	60	22%
FLAGSTAFF	Hotels and Motels	4	22%	40	3	33%
	Grocery Stores	1	8%	0	1	8%
	SICs with <10 comparisons	6	18%	61	6	25%
FLAGSTAFF	TOTAL	11	17%	100	10	22%
LAS VEGAS	Grocery Stores	1	8%	12	1	8%

Arizona	DISCRIMINATION AGAINST WOMEN	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
MSA	Industry					
	SICs with <10 comparisons	3	9%	38	3	17%
LAS VEGAS	TOTAL	4	9%	50	4	13%
YUMA	SICs with <10 comparisons	4	25%	30	4	25%
YUMA	TOTAL	4	25%	30	4	25%
ARIZONA	TOTAL	782	21%	11,163	627	30%

Table 13. Discrimination against Minorities by MSA & Industry in Arizona

Arizona	DISCRIMINATION AGAINST MINORITIES	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%		#	%
MSA	Industry					
Phoenix-Mesa, AZ						
	Grocery Stores	137	41.00%	1,456	117	50%
	Eating and Drinking Places	93	38.00%	1,111	89	41%
	Hospitals	39	27.00%	867	19	54%
	Department Stores	53	33.00%	731	37	37%
	Hotels and Motels	33	22.00%	680	23	38%
	Electronic Components and Accessories	30	27.00%	544	19	59%
	Commercial Banks	30	27.00%	428	25	53%
	Telephone Communication	25	24.00%	389	20	34%
	Trucking & Courier Services, Ex. Air	22	41.00%	377	16	59%
	Nursing and Personal Care Facilities	15	19.00%	300	14	29%
	Heavy Construction, except Highway	12	27.00%	221	8	44%
	Groceries and Related Products	26	25.00%	208	18	38%
	Aircraft and Parts	11	21.00%	206	9	47%
	Health and Allied Services	17	22.00%	183	13	42%
	Misc. General Merchandise Stores	15	30.00%	166	7	50%
	Computer and Data Processing Services	17	19.00%	164	16	29%
	Automotive Rentals, No Drivers	16	37.00%	155	9	56%
	Fire, Marine, and Casualty Insurance	11	19.00%	132	9	33%
	New and Used Car Dealers	22	18.00%	114	16	46%
	Variety Stores	7	39.00%	105	4	44%
	Lumber and Other Building Materials	8	21.00%	105	7	22%
	Fabricated Structural Metal Products	9	29.00%	104	6	43%
	Air Transportation, Scheduled	9	20.00%	94	7	33%
	Communications Equipment	5	23.00%	94	2	33%
	Concrete, Gypsum, and Plaster Products	4	22.00%	92	4	33%
	Residential Building Construction	7	25.00%	90	5	42%
	Miscellaneous Plastics Products	9	33.00%	89	7	44%
	Retail Stores	4	15.00%	85	4	18%
	Wood Buildings and Mobile Homes	4	25.00%	79	3	38%
	Credit Reporting and Collection	3	20.00%	78	3	27%
	Electrical Goods	9	21.00%	73	7	41%
	Refrigeration and Service Machinery	4	22.00%	72	1	17%
	Search and Navigation Equipment	4	20.00%	69	3	50%
	Motor Vehicles and Equipment	4	31.00%	67	2	40%
	Carpentry and Floor Work	3	27.00%	65	2	40%
	Measuring and Controlling Devices	5	20.00%	52	2	25%
	Nonferrous Rolling and Drawing	3	30.00%	50	2	50%
	Electric Services	5	16.00%	48	3	33%
	Motor Vehicles, Parts, and Supplies	3	17.00%	48	2	20%
	Computer and Office Equipment	4	27.00%	46	3	38%
	Electrical Work	4	24.00%	44	4	44%
	Insurance Agents, Brokers, & Service	5	22.00%	39	5	26%

Arizona MSA	DISCRIMINATION AGAINST MINORITIES Industry	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
	Machinery, Equipment, and Supplies	4	19.00%	35	4	29%
	Nonresidential Building Construction	2	13.00%	34	2	33%
	Personal Credit Institutions	1	10.00%	33	1	25%
	Newspapers	6	38.00%	32	3	60%
	Life Insurance	1	7.00%	32	1	13%
	Commercial Printing	2	13.00%	29	2	20%
	Radio, Television, & Computer Stores	6	19.00%	28	5	22%
	Individual and Family Services	3	23.00%	28	1	17%
	Professional & Commercial Equipment	8	24.00%	25	6	55%
	Passenger Transportation Arrangement	4	31.00%	25	3	43%
	Security Brokers and Dealers	6	26.00%	23	6	43%
	Title Insurance	2	14.00%	23	2	18%
	Medical and Dental Laboratories	2	18.00%	23	1	25%
	Legal Services	3	14.00%	22	2	15%
	Medical Service and Health Insurance	4	8.00%	19	4	21%
	Home Health Care Services	4	33.00%	15	3	43%
	Beer, Wine, and Distilled Beverages	1	7.00%	14	1	17%
	Business Credit Institutions	2	13.00%	14	1	17%
	Radio and Television Broadcasting	4	15.00%	13	2	20%
	Beverages	1	9.00%	12	1	20%
	Engineering & Architectural Services	4	11.00%	10	3	12%
	Offices & Clinics Of Medical Doctors	3	25.00%	9	3	38%
	Miscellaneous Shopping Goods Stores	2	10.00%	7	2	10%
	Guided Missiles, Space Vehicles, Parts	0	0.00%	0	0	0%
	Medical Instruments and Supplies	0	0.00%	0	0	0%
	SICs with <10 comparisons	43	25.00%	433	40	26%
Phoenix-Mesa, AZ	Total	864	26%	11,058	671	37%
Tucson,	Eating and Drinking Places	18	43%	216	18	43%
AZ	Grocery Stores	18	31%	196	16	38%
	Department Stores	8	18%	136	6	24%
	Hotels and Motels	4	11%	101	2	14%
	Hospitals	7	23%	80	4	44%
	Computer and Data Processing Services	3	17%	59	3	33%
	Offices & Clinics Of Medical Doctors	4	33%	39	3	60%
	Electronic Components and Accessories	5	22%	35	3	33%
	New and Used Car Dealers	5	14%	32	4	44%
	Nursing and Personal Care Facilities	4	22%	26	4	33%
	Groceries and Related Products	4	17%	26	4	31%
	Health and Allied Services	3	21%	16	2	25%
	SICs with <10 comparisons	26	25%	189	24	30%
Tucson, AZ	Total	109	24%	1,151	93	34%
Flagstaff,	Hotels and Motels	7	39%	91	4	44%
AZ-UT						

Arizona MSA	DISCRIMINATION AGAINST MINORITIES Industry	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
	Grocery Stores	6	50%	51	6	50%
	SICs with <10 comparisons	10	32%	96	10	42%
Flagstaff, AZ-UT Total		23	38%	238	20	44%
Las Vegas, NV-AZ	Grocery Stores	12	92%	150	12	92%
	SICs with <10 comparisons	27	73%	674	16	76%
Las Vegas, NV-AZ_ Total		39	78%	824	28	82%
Yuma, AZ	SICs with <10 comparisons	4	25%	49	4	25%
Yuma, AZ_ Total		4	25%	49	4	25%
Arizona	Total	1,039	27%	13,320	816	38%

Table 14. Discrimination against Blacks by MSA & Industry in Arizona

Arizona	DISCRIMINATION AGAINST BLACKS	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%		#	%
MSA	Industry					
Phoenix-	Trucking & Courier Services, Ex. Air	8	23%	153	5	25%
Mesa, AZ	Telephone Communication	11	28%	113	11	42%
	Commercial Banks	5	14%	107	5	14%
	Eating and Drinking Places	14	47%	90	10	56%
	Nursing and Personal Care Facilities	11	24%	89	11	27%
	Electronic Components and Accessories	5	18%	68	5	25%
	Credit Reporting and Collection	5	42%	57	5	45%
	Hospitals	4	18%	52	4	18%
	Air Transportation, Scheduled	3	14%	30	2	13%
	Groceries and Related Products	4	29%	27	3	25%
	Computer and Data Processing Services	3	16%	23	3	16%
	Automotive Rentals, No Drivers	9	39%	23	7	50%
	Health and Allied Services	4	29%	22	4	29%
	Department Stores	2	18%	18	2	18%
	Beverages	2	18%	5	2	40%
	Medical Service and Health Insurance	0	0%	0	0	0%
	SICs with <10 comparisons	45	23%	303	43	25%
Phoenix-Mesa, AZ_ Total		135	24%	1,180	122	26%
Tucson, AZ	Nursing and Personal Care Facilities	1	10%	0	1	10%
	SICs with <10 comparisons	4	16%	4	4	16%
Tucson, AZ_ Total		5	14%	4	5	14%
Las Vegas, NV-AZ	Grocery Stores	10	100%	48	10	100%
	SICs with <10 comparisons	23	96%	311	12	92%
Las Vegas, NV-AZ_ Total		33	97%	359	22	96%
Arizona	Total	173	27%	1,543	149	29%

Table 15. Discrimination against Hispanics by MSA & Industry in Arizona

Arizona MSA	DISCRIMINATION AGAINST HISPANICS Industry	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
Phoenix- Mesa, AZ	Grocery Stores	143	43.00%	1,310	121	52%
	Eating and Drinking Places	86	35.00%	1,050	78	36%
	Hotels and Motels	29	22.00%	609	22	36%
	Department Stores	53	34.00%	548	41	41%
	Hospitals	33	38.00%	547	17	50%
	Trucking & Courier Services, Ex. Air	18	33.00%	321	13	48%
	Commercial Banks	24	25.00%	302	18	39%
	Heavy Construction, except Highway	12	28.00%	252	7	39%
	Telephone Communication	21	24.00%	239	16	29%
	Groceries and Related Products	19	23.00%	203	12	27%
	Nursing and Personal Care Facilities	11	20.00%	188	11	23%
	Electronic Components and Accessories	11	13.00%	153	9	28%
	Fabricated Structural Metal Products	13	42.00%	141	7	50%
	Aircraft and Parts	11	27.00%	134	7	37%
	Misc. General Merchandise Stores	11	25.00%	118	6	43%
	New and Used Car Dealers	19	18.00%	116	16	48%
	Fire, Marine, and Casualty Insurance	8	27.00%	94	5	31%
	Wood Buildings and Mobile Homes	5	31.00%	89	3	38%
	Variety Stores	6	33.00%	87	3	33%
	Retail Stores	5	28.00%	84	3	20%
	Automotive Rentals, No Drivers	11	31.00%	83	7	44%
	Refrigeration and Service Machinery	6	35.00%	82	3	50%
	Miscellaneous Plastics Products	7	26.00%	81	6	38%
	Health and Allied Services	12	25.00%	80	7	28%
	Residential Building Construction	6	26.00%	79	5	42%
	Motor Vehicles and Equipment	4	31.00%	78	2	40%
	Carpentry and Floor Work	4	36.00%	76	3	60%
	Concrete, Gypsum, and Plaster Products	3	17.00%	75	3	25%
	Credit Reporting and Collection	3	25.00%	70	2	18%
	Lumber and Other Building Materials	7	21.00%	66	6	21%
	Computer and Data Processing Services	9	18.00%	50	9	23%
Communications Equipment	3	20.00%	45	2	33%	
Air Transportation, Scheduled	7	21.00%	45	6	30%	
Machinery, Equipment, and Supplies	5	29.00%	40	4	31%	
Measuring and Controlling Devices	5	25.00%	37	2	29%	
Electric Services	4	14.00%	37	1	11%	
Nonresidential Building Construction	2	14.00%	30	2	33%	
Motor Vehicles, Parts, and Supplies	1	6.00%	27	1	10%	
Life Insurance	3	30.00%	27	2	29%	

Arizona MSA	DISCRIMINATION AGAINST HISPANICS Industry	Comparisons w/Discrimination		Affected Workers #	Discriminating Establishments	
		#	%		#	%
	Commercial Printing	3	20.00%	26	3	33%
	Newspapers	3	23.00%	26	3	60%
	Search and Navigation Equipment	3	19.00%	25	2	33%
	Individual and Family Services	3	27.00%	25	2	40%
	Business Credit Institutions	3	25.00%	20	3	50%
	Beverages	3	27.00%	20	2	40%
	Radio, Television, & Computer Stores	5	16.00%	18	3	13%
	Electrical Work	2	13.00%	17	2	22%
	Beer, Wine, and Distilled Beverages	1	8.00%	17	1	17%
	Electrical Goods	4	14.00%	14	4	29%
	Title Insurance	1	7.00%	12	1	9%
	Engineering & Architectural Services	2	15.00%	8	2	18%
	Passenger Transportation Arrangement	1	10.00%	6	1	17%
	Radio and Television Broadcasting	2	9.00%	5	2	20%
	Professional & Commercial Equipment	3	13.00%	5	3	30%
	Miscellaneous Shopping Goods Stores	2	12.00%	0	2	12%
	Medical Service and Health Insurance	5	12.00%	0	5	26%
	SICs with <10 comparisons	54	23.00%	508	51	26%
Phoenix-Mesa, AZ_ Total		740	27%	8,446	580	35%
Tucson, AZ	Grocery Stores	18	31.00%	165	18	43%
	Department Stores	9	20.00%	147	7	28%
	Eating and Drinking Places	15	36.00%	144	15	36%
	Hospitals	8	27.00%	107	3	33%
	Hotels and Motels	7	21.00%	92	4	29%
	Computer and Data Processing Services	4	25.00%	67	4	50%
	Offices & Clinics Of Medical Doctors	4	33.00%	32	3	60%
	Groceries and Related Products	4	17.00%	24	4	31%
	New and Used Car Dealers	6	17.00%	17	5	56%
	Nursing and Personal Care Facilities	4	25.00%	12	4	36%
	Health and Allied Services	1	9.00%	4	1	14%
	Electronic Components and Accessories	1	7.00%	0	1	17%
	SICs with <10 comparisons	24	26.00%	161	21	28%
Tucson, AZ_ Total		105	24%	974	90	34%

Arizona MSA	DISCRIMINATION AGAINST HISPANICS Industry	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%	#	#	%
Flagstaff, AZ-UT	Grocery Stores	3	25%	26	3	25%
	SICs with <10 comparisons	8	22%	106	8	25%
Flagstaff, AZ-UT Total		11	22%	132	11	25%
Las Vegas, NV-AZ	Grocery Stores	8	62%	56	8	62%
	SICs with <10 comparisons	15	47%	161	12	60%
Las Vegas, NV-AZ_ Total		23	51%	217	20	61%
Yuma, AZ	SICs with <10 comparisons	4	25%	46	4	25%
Yuma, AZ_ Total		4	25%	46	4	25%
ARIZONA HISPANICS TOTALS		883	27%	9,815	705	35%

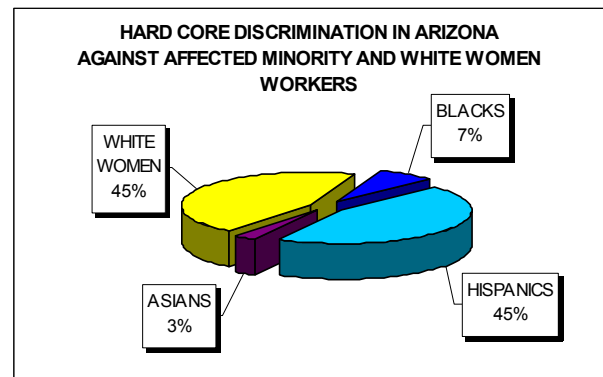
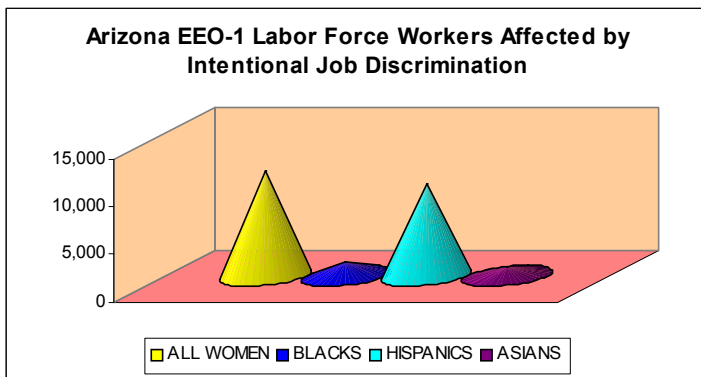
Table 16. Discrimination against Asians by MSA & Industry in Arizona

Arizona	DISCRIMINATION AGAINST ASIANS	Comparisons w/Discrimination		Affected Workers	Discriminating Establishments	
		#	%		#	%
MSA	Industry					
Phoenix-Mesa, AZ	Electronic Components and Accessories	19	29%	397	12	41%
	Communications Equipment	4	33%	104	2	33%
	Computer and Data Processing Services	11	37%	77	11	38%
	Electrical Goods	9	47%	42	8	67%
	Measuring and Controlling Devices	1	8%	0	1	20%
	SICs with <10 comparisons	23	26%	111	23	30%
Phoenix-Mesa, AZ Total		67	29%	730	57	36%
Las Vegas, NV-AZ	SICs with <10 comparisons	17	81%	135	8	73%
Las Vegas, NV-AZ Total		17	81%	135	8	73%
Tucson, AZ	SICs with <10 comparisons	3	27%	34	3	38%
Tucson, AZ Total		3	27%	34	3	38%
ARIZONA ASIANS TOTALS		87	33%	899	68	38%

§14. THE BOTTOM LINE OF VISIBLE INTENTIONAL JOB DISCRIMINATION IN THIS STATE

Table 17. Bottom Line of Discrimination in Arizona.

Bottom Line of Discrimination in Arizona	Comparisons with Discrimination		Affected Workers	Discriminating Establishments		Hard Core Discriminators				
	#	%		#	#	%	Establishments		Workers	
							#	%	#	% of Affected Workers
ALL WOMEN	782	21.00%	11,163	627	30.00%	112	5.00%	3,441	30.83%	
MINORITIES	1,039	27.00%	13,320	816	38.00%	156	7.00%	4,039	30.32%	
BLACKS	173	27.00%	1,543	149	29.00%	14	3.00%	400	25.92%	
HISPANICS	883	27.00%	9,815	705	35.00%	118	6.00%	2,472	25.19%	
ASIANS	87	33.46%	899	68	38.42%	4	2.00%	154	17.13%	



Every time a Black worker sought an employment opportunity in 1999, he or she had a 27% chance of facing discrimination – more than a quarter of the time. A Hispanic worker faced this risk 27% of the time, while Asian workers faced it 33% -- one third -- of the time. Women faced the risk of discrimination 21% or nearly one fifth of the time.

The Phoenix, Tucson, and Las Vegas MSAs included 19,902 affected workers or 99% of all affected workers in the state.

§15. CONCLUSIONS AND RECOMMENDATIONS

This state study has the same objectives as the National Study: (1) to assist the public in deciding whether discrimination is still so severe that affirmative action continues to be necessary to raise the status of minorities and women to that of equality; (2) to enable those employers whose practices appear discriminatory to understand their situations and take actions they deem appropriate; (3) to enable public and private agencies to address the continuation of intentional job discrimination; and, (4) to bring a modest element of predictability and stability to the law of employment discrimination.¹⁷

1. The necessity for continued affirmative action is established by the statistics in this state. The playing field of employment in this state is clearly not level. The only way this massive problem of intentional discrimination can be usefully and practically addressed is by encouraging establishments to recruit, hire, train, assign, promote, pay and treat qualified minorities and women as they treat qualified whites and males. This is all that affirmative action programs have ever expected. We know that there are qualified minorities and women in this state, because they are currently working for employers who did not discriminate against them. The establishments currently discriminating are in as good or better a position to find qualified workers, as were those who found them in earlier years.
 2. Employers in this state are entitled to know where they stand vis-a-vis other similar employers. The Federal government, which has this information, has not supplied it to them. Without that knowledge, they cannot address their situation, either by preparing justifications or by taking steps to get out of the statistical trap they are in. They should attempt to secure the kind of analysis in this study from Federal or State Agencies. Failing that, employers may seek further information on obtaining this information by examining the EEO1.com website.
 3. The State agencies charged with enforcing the equal employment opportunity laws of this state should:
 - A. Request from EEOC the statistical information with the identification of the establishments described in this study, and develop a plan to address them in cooperation with other agencies and organizations.
 - B. This plan should include:
 - (1) Adopting a systemic analysis of EEO-1 data for this state, updated annually, to identify establishments that may be discriminating;
-

- (2) Advising employers if they are at risk of a finding of discrimination against them, based on these statistics;
 - (3) Making clear to such employers that they may take affirmative action to reduce or eliminate the risk of findings of discrimination against them;
 - (4) Encouraging them to report the results of their efforts to the Federal/State/local agency involved;
 - (5) Instituting formal proceedings against those employers who decline without justification to:
 - (a) File EEO-1 reports.
 - (b) Undertake enforceable affirmative action programs to address the apparent discrimination.
 - (6) Invite private counsel to participate in programs of advice to employers.
 - (7) Seek binding obligations from these employers to increase their utilization of qualified minority and female employees, while leaving litigation over damage issues primarily to private counsel.
4. Private organizations seeking to improve opportunities for women and minorities should press the government agencies to secure enforceable and reviewable promises to increase utilization of minority and female employees, in preference to securing damages for victims of discrimination that can be obtained by private counsel. These organizations and agencies should evaluate the government by how many jobs and promotions are obtained for how many workers, rather than by how much money is obtained for a few.
5. The result of the foregoing strategy should be the reduction of intentional discrimination in this state and the improvement of equality, not only in employment opportunity, but also in other areas of life where those who are fairly employed can further opportunities for themselves and their posterity.
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§16. GLOSSARY

AFFECTED WORKERS. The number of additional workers who would have been employed by an establishment that was more than two standard deviations below the mean in utilization of minority or female employees if the establishment had employed them at the local industry and occupational level. This remedy is appropriate where intentional discrimination has been established.

AFFIRMATIVE ACTION. Any action taken by an employer, other than cessation of discriminatory actions, practices, procedures or tests, which has the intent or effect of improving employment opportunities for minorities and/or women. Such action may be informal as in more careful examination of relative qualifications of competing candidates, or more formal as in the adoption and implementation of plans which require examination of practices, procedures and tests to assure that they provide equal employment opportunity and to modify and correct those that do not. Such actions may include changing recruitment and other ways of doing business so as to include minorities and/or women.

Affirmative Action Plans may include “goals and timetables” as “benchmarks for measuring compliance with Title VII and eliminating the lingering effects of past discrimination,” but may not include a “quota” or “preference” which is a “rigid numerical requirement which must unconditionally be met.” Affirmative action, either formal or informal, is justified when an employer’s work force shows a “manifest imbalance” in the employment of minorities or women, when measured against appropriate peer establishments or the relevant labor market and whenever the employer reasonably believes that its existing employment pattern puts it in jeopardy of a finding of a “pattern or practice” of discrimination, a class action finding of discrimination or a finding of discrimination in individual cases.

All of these uses of statistics to identify and remedy discrimination have been approved by the Supreme Court. See *Sheetmetal Workers Local 28 v. EEOC*, 478 U.S. 421, 495 (1986); *United Steelworkers v. Weber*, 433 U.S. 193 (1979); *Johnson v. Transportation Agency, Santa Clara County*, 480 U.S. 616 (1987); *Wygant v. Jackson Board of Education*, 476 U.S. 267 (1986); *McDonnell Douglas v. Green*, 411 U.S. 792 (1973); *EEOC v. Shell Oil Company*, 466 U.S. 54 (1984).

ASIAN-PACIFIC ISLANDERS. See “Groups.”

BLACKS. See “Groups.”

COMPARISON. In this study, comparing the utilization of women or minorities in an occupational group at one establishment with the average utilization in that category at other establishments in the same industry and labor market. See Peer Establishments and Statistical Significance.

EEO1 LABOR FORCE. In this study, establishments with 50 or more employees in metropolitan areas that report on Form EEO-1.

EEO-1 REPORT. All employers with 100 or more employees and many with fifty or more, have been required to file reports on the composition of their work forces since 1966 on a form called EEO-1. This employer reporting system has enabled the continuous annual collection of information on the race, sex, national origin, and occupation of employees. The Office of Federal Contract Compliance Programs (OFCCP) has required government contractors to file identical reports with respect to establishments of 50 or more employees.¹⁸ The reports require information on the number of employees who are men and women, Black, Hispanic, Asian Pacific and Native American.

EEOC. The initials of the Equal Employment Opportunity Commission, an independent federal agency charged with enforcing Title VII of the Civil Rights Act of 1964, prohibiting discrimination on the basis of race, color, religion, sex or national origin, and other statutes prohibiting discrimination based on sex, age and disability. Title VII expressly authorizes the EEOC to require reports from the institutions it regulates.

EMPLOYMENT OPPORTUNITY. An “employment opportunity” may consist of obtaining employment, or of any condition or privilege of employment once obtained including promotion, pay, training, transfer, discipline, layoff and discharge.

ESTABLISHMENT. An economic unit, usually at a single physical location, that produces goods or services, such as a manufacturing plant, office, or retail store. An employer may have one or more establishments.

GLASS CEILING. The level in an employer’s hierarchy of work positions at which members of discriminated-against groups face restrictions in their opportunities to obtain higher-level, managerial, decision-making, or better-paid employment. Also, the barriers that these groups face as they seek to advance into those higher-level positions.

GROUPS (RACE/ETHNICITY).

The EEOC defines White, Black, Hispanic, Asian-Pacific Islander, and Native American in the instructions to the EEO-1 form as follows:

"Race/ethnic designations as used by the Equal Employment Opportunity Commission do not denote scientific definitions of anthropological origins. For the purposes of this report, an employee may be included in the group to which he or she appears to belong, identifies with, or is regarded in the community as belonging. However, no person should be counted in more than one race/ethnic group.

"The race/ethnic categories for this survey are:

"**White** (Not of Hispanic origin)-All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.

"**Black** (Not of Hispanic origin)-All persons having origins in any of the Black racial groups of Africa.

"**Hispanic** - All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

"**Asian or Pacific Islander** - All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, India, Japan, Korea, the Philippine Islands, and Samoa.

"**American Indian or Alaskan Native** - All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition."

HISPANICS. See "Groups" above.

INTENTIONAL DISCRIMINATION. "Intentional Discrimination" exists "when a complaining party demonstrates that **race, color, religion, sex or national origin was a motivating factor for any employment practice, even though other factors also motivated the practice.**"¹⁹ This means that the intent need not be the sole factor in an employment decision. It is enough to show that it was one of the motivating factors. If an employer has both a legitimate reason for its practices and also a discriminatory reason, then it is engaged in intentional discrimination under the Civil Rights Act. See Statistical Significance.

METROPOLITAN STATISTICAL AREA (MSA). A geographical area, usually defined in terms of counties, designated by the U. S. Bureau of Census to represent a large concentration of population that functions as a geographically-integrated labor market.

OCCUPATIONAL GROUP or CATEGORY. One of nine job categories used in reporting employment utilization in EEO-1 reports: Officials and managers, Prof.s, technicians, sales workers, office and clerical workers, craft workers (skilled), operatives (semi-skilled), laborers (unskilled), and service workers.

The EEOC, in the instructions to the EEO-1 form, provides the following definitions for each category:

"Officials and managers. - Occupations requiring administrative and managerial personnel who set broad policies, exercise overall responsibility for execution of these policies, and direct individual departments or special phases of a firm's operations. Includes: officials, executives, middle management, plant managers, department managers, and superintendents, salaried supervisors who are members of management, purchasing agents and buyers, railroad conductors and yard masters, ship captains, mates and other officers, farm operators and managers, and kindred workers.

"Professionals. - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, registered professional nurses, personnel and labor relations specialists, physical scientists, physicians, social scientists, teachers, surveyors and kindred workers.

"Technicians. - Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes: computer programmers, drafters, engineering aides, junior engineers, mathematical aides, licensed, practical or vocational nurses, photographers, radio operators, scientific assistants, technical illustrators, technicians (medical, dental, electronic, physical science), and kindred workers.

"Sales. - Occupations engaging wholly or primarily in direct selling. Includes: advertising agents and sales workers, insurance agents and brokers, real estate agents and brokers, stock and bond sales workers, demonstrators, sales workers and sales clerks, grocery clerks, and cashiers/checkers, and kindred workers.

"Office and clerical. - Includes all clerical-type work regard-less of level of difficulty, where the activities are predominantly nonmanual though some manual work not directly involved with altering or transporting the products is included. Includes: bookkeepers, collectors (bills and accounts), messengers and office helpers, office machine operators (including computer), shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, legal assistants, and kindred workers.

"Craft Workers (skilled). - Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: the building trades, hourly paid supervisors and lead operators who are not members of management, mechanics and repairers, skilled machining occupations, compositors and typesetters, electricians, engravers, painters (construction and maintenance), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, arts occupations, handpainters, coaters, bakers, decorating occupations, and kindred workers.

"Operatives (semiskilled) - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training. Includes: apprentices (auto mechanics, plumbers, bricklayers, carpenters, electricians, machinists, mechanics, building trades, metalworking trades, printing trades, etc.), operatives, attendants (auto service and parking), blasters, chauffeurs, delivery workers, sewers and stitchers, dryers, furnace workers, heaters, laundry and dry cleaning operatives, milliners, mine operatives and laborers, motor operators, oilers and greasers (except auto), painters (manufactured articles), photographic process workers, truck and tractor drivers, knitting, looping, taping and weaving machine operators, welders and flamecutters, electrical and electronic equipment assemblers, butchers and meatcutters, inspectors, testers and graders, handpackers and packagers, and kindred workers.

"Laborers (unskilled). - Workers in manual occupations which generally require no special training who perform elementary duties that may be learned in a few days and require the application of little or no

independent judgment. Includes: garage laborers, car washers and greasers, groundskeepers and gardeners, farmworkers, stevedores, wood choppers, laborers performing lifting, digging, mixing, loading and pulling operations, and kindred workers.

"Service workers. - Workers in both protective and non-protective service occupations. Includes: attendants (hospital and other institutions, professional and personal service, including nurses aides, and orderlies), barbers, charworkers and cleaners, cooks, counter and fountain workers, elevator operators, firefighters and fire protection, guards, door-keepers, stewards, janitors, police officers and detectives, porters, waiters and waitresses, amusement and recreation facilities attendants, guides, ushers, public transportation attendants, and kindred workers."

OCCUPATIONAL SEGREGATION. Patterns of employment that result when opportunities to work in certain occupations are associated with personal characteristics. For example, racial/ethnic occupational segregation is reflected in the exclusion or under-representation of African American or Hispanic workers from occupations historically considered "white jobs" and their over-representation in minority-dominated occupations. Similarly, gender occupational segregation is reflected in the existence of "female dominated" occupations (e.g., nurses and secretaries) and "male dominated" occupations (e.g., carpenters and surgeons).

PEER ESTABLISHMENTS. In this study, a group of establishments employing workers in the same industry, metropolitan statistical area, and occupational group.

MINORITIES identified in EEO-1 reports are Blacks, Hispanics, Asian-Pacific origin and Native Americans. Definitions of these terms appear in "Groups."

NATIVE AMERICANS. See "Groups."

OFCCP. Initials of the Office of Federal Contract Compliance Programs, a division of the Employment Standards Administration in the U.S. Department of Labor that enforces Executive Order 11,246 as amended, prohibiting federal government contractors from discriminating on grounds of race, color, religion, sex, national origin, and on other grounds.

STANDARD DEVIATIONS. See "Statistical Significance."

STATISTICAL SIGNIFICANCE. The likelihood that an observed result occurred by chance is measured in terms of "standard deviations" around an expected outcome. When an observed result (such as the percentage of women employed in a particular job category) has a less than a 1 in twenty chance of having occurred by chance, it constitutes a difference of two standard deviations. This difference is generally considered to be statistically significant. For example, if we expect to see an establishment in the stock brokerage industry employing on average 20% female stock brokers and a particular establishment employs only 4%

women, that difference is deemed statistically significant. It is 2.7 standard deviations from the expected number. This difference is evidence of intentional discrimination. See “**Intentional Discrimination.**”

UTILIZATION. The number or proportion of employees of a demographic group employed by an establishment in an occupational category. For example, if minorities constitute 15 out of 150 managers at an establishment, the utilization of minorities is 15 employees or 10%.

VISIBLE JOB DISCRIMINATION. Discrimination that appears when the EEO-1 reports filed by establishments in the same metropolitan area, the same industry and the same occupational category, show that an establishment is so far below the average use of the minority or female group in an occupational category that it is not likely to have resulted by chance. Such deviations make the offending establishments stick out like sore thumbs in our analysis. This study did not analyze any establishment with fewer than 50 employees, nor any establishment that was located outside a Metropolitan Statistical Area.

**§17. APPENDIX A:
EXECUTIVE SUMMARY OF THE NATIONAL REPORT –
THE REALITY OF INTENTIONAL JOB DISCRIMINATION IN
METROPOLITAN AMERICA – 1999**

(The section numbers have been modified from the original numbering in the National Report to fit this state report.)

Intentional discrimination was “the most obvious evil” that the Civil Rights Act of 1964 was designed to prevent. Is intentional discrimination still a potent force restricting job opportunities for women and minorities? Or, is it what University of California Regent Ward Connerly suggested in 1998, “Black Americans are not hobbled by chains any longer. We’re free to compete. We’re capable of competing. It is an absolute insult to suggest that we can’t.”¹ Which is it: a “level playing field,” or an uphill struggle for women and minorities against intentional job discrimination that favors whites/males?

This question is answered in a four year, 1,400 page study of the race color and sex of employees in large and mid sized private business establishments – THE REALITIES OF INTENTIONAL JOB DISCRIMINATION IN METROPOLITAN AMERICA – 1999, by Rutgers Law School Professor Alfred W. Blumrosen and adjunct Professor Ruth G. Blumrosen. Supported by a grant from the Ford Foundation to Rutgers University, the study is based on employers’ annual reports to the Federal Government involving 160,000 establishments employing 37 million workers. It involved a computer analysis of these reports combined with Supreme Court and Congressional rules to identify “patterns and practices” of intentional job discrimination of the Supreme Court and Congress.

In 1991, Congress confirmed that intentional discrimination exists when “race, color, religion, sex or national origin was a motivating factor for any employment practice, even though other factors also motivated the practice.”² “Intent to discriminate” is not the equivalent of “evil motive,” where a personal wish or desire to oppress women or minorities is the *only* explanation for the harm done. If an employer has both a legitimate reason for its practices and also a discriminatory reason, it is engaged in intentional discrimination.

¹. Interview on “60 Minutes” by Mike Wallace, Aug.2, 1998, transcript, p. 22.

². Sec. 703 (m) of Title VII

The study found that intentional job discrimination continues on a major scale. Blacks, Hispanics, Asian Pacific workers and White Women who have the knowledge, skills, abilities, and experience to compete are deprived of that opportunity by intentional discrimination between a quarter and a third of the time they seek such opportunities.

- In 1999, intentional discrimination affected two million minority and female workers. It exists in every region of the country, in each of nine occupational categories from officials and managers to labor and service jobs.
- Seventy five thousand establishments discriminated intentionally against 1.3 million minorities; while 60,000 establishments discriminated intentionally against 952,000 women. Despite the persistence of intentional discrimination, the majority of establishments did not appear to engage in it. As a result, minorities and women have increased their participation in the labor force and in their proportion in better paying jobs.
- Forty industries were “equal opportunity discriminators” -- discriminating against 75% of the Blacks, Hispanics, Asian-Pacific workers and White women who were affected. The top ten of these industries were Hospitals, Eating and Drinking Places, Department Stores, Grocery Stores, Nursing and Personal Care Facilities, Computer and Data Processing Services, Hotels and Motels, Telephone Communications, Commercial Banks and Motor Vehicles and Equipment Manufacturing.
- Medical, Drug and Health related industries alone accounted for 20% of Women, Blacks, Hispanics and Asian Pacific workers affected by discrimination.
- Ninety percent of the affected workers were subjected to discrimination that was so severe that there was only one chance in 100 that it occurred by accident. That is far more than enough to trigger a legal presumption of intentional job discrimination.
- Between one third and one half of this discrimination was caused by “hard core” establishments that had been discriminating for at least nine years.

A. BACKGROUND OF THE STUDY

Private employers of 100 or more employees and government contractors of 50 or more employees have been required to file annual reports, called EEO-1 reports, since 1966 with the U.S. Equal Employment Opportunity Commission and the Department of Labor. The study obtained computerized versions of these

reports from the EEOC with the names and identifying addresses of employers expunged to preserve employer confidentiality. The statistics only identify the state and Metropolitan Statistical Area in which establishments are located.

Intentional job discrimination was identified by examining establishment reports in each metropolitan area by industry. Within each industry, nine occupational categories were examined separately. In this way, the average utilization of men and women, Blacks, Hispanics and Asians in each industry and occupational category within each metropolitan area was obtained. Establishments that were so far below the average utilization of minorities or women that it was unlikely to have occurred by chance, stood out “like sore thumbs” in this analysis. They are presumed by law to be intentional discriminators under legal rules developed since 1977. In that year, the Supreme Court explained that a statistical imbalance, “is often a telltale sign of purposeful discrimination.... In many cases the only available avenue of proof is the use of racial statistics to uncover clandestine and covert discrimination...” In law suits, employers would have the opportunity to show that the statistics were inaccurate or that they had only good reasons for the abnormally low utilization, a burden that is difficult to satisfy. The study suggests that most establishments facing these statistics would settle rather than litigate.

Workers affected by this discrimination were measured by the difference between the number actually employed and the number that the apparent discriminator would have employed if it had employed minorities/women at the average. This is the standard the Supreme Court has applied in cases of intentional discrimination. There is no single average in the study. For each occupation in each establishment, the average utilization varies depending on the number of qualified available workers in the labor market, industry and occupation. The average is not a quota—it is a fact, showing how similar employers have employed minorities and women in the same occupation under the same labor market and industrial circumstances.

The study addresses some of the most common employer explanations for such low levels of minority and female employment, such as women aren’t interested in the work, [they are doing the same work for other similar employers]; no qualified workers were available. [qualified workers were available because they were doing the same type of work for other employers.]

B. THE BURDEN OF DISCRIMINATION

What is the risk that a minority or woman will face discrimination because of their race, sex or national origin when seeking an employment opportunity? The study found that the probability of discrimination varied with the kind of job being sought. The table below describes the probability of discrimination by occupational category. The percentages apply each time a person sought an employment opportunity, be it employment, promotion, assignment, layoff, discharge or other employment related activities.

Risk of Discrimination because of race, sex, national origin each time a job opportunity is sought in the occupation.

	Blacks	Hispanics	Asian	Women
Officials and Managers	26.6%	21.8%	24.6%	18%
Professionals	27.6%	20.7%	30.8%	23%
Technical workers	29.1%	21.9%	30.2%	23%
Sales	39.5%	28.1%	27.3%	20%
Office and Clerical	31.8%	21.8%	26.4%	19%
Craft workers (skilled)	28.7%	27.1%	35.0%	37%
Operatives (semi skilled)	33.2%	33.4%	42.8%	38%
Laborers	34.9%	34.4%	43.6%	30%
Service workers	40.3%	34.0%	38.1%	19%
All comparisons	34.1%	35.0%	39.0%	23%

C. BLACK WORKERS MOST SERIOUSLY AFFECTED

Despite the initial focus of the Civil Rights Act on Black workers, and the improvement that has taken place since, Black workers still bear the severest brunt of this discrimination. They constitute less than half of all minority workers reported, but they were 57% of all workers affected by discrimination. Fifteen percent of all Black workers were so affected in 1999, while 11 % of both Hispanics and Asian Pacific workers were affected.

- Thirty five thousand business establishments discriminated against 586,000 Blacks. Ninety percent of these Black workers were affected by establishments that were so far below the average utilization that there was only a 1 in 100 chance that this happened by accident and half by "hard core" employers who had been discriminating for at least nine years.
 - Hispanic workers were 33% of minority workers reported, and they constituted 28% of those affected by discrimination or 283,000 workers.
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- Asian Pacific workers were 17% of the minorities, and 15% -- or nearly 150,000 -- of those affected by discrimination.
 - The data about Native American workers was too sparse to draw conclusions.
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D. IMPROVEMENT IN PROPORTION OF MINORITIES AND WOMEN EMPLOYED BETWEEN 1975 AND 1999

The bright spot in this study of intentional discrimination, is that between 1975 and 1999, minorities increased their participation in the labor force by 4.6 million workers beyond the increase resulting from economic growth; and women similarly increased their participation by 3.8 million workers. In absolute numbers, minorities went from 4 million workers in 1975 to more than 11 million in 1999; women went from 8 million workers in '75 to 17.5 million in 1999. More important, all groups increased their share of "better jobs" as officials, managers, professionals, technical and sales workers.

E. FORTY INDUSTRIES THAT WERE 'EQUAL OPPORTUNITY DISCRIMINATORS'

The study identified 40 industries that were "equal opportunity discriminators," discriminating against more than 75% of the Black, Hispanic, Asian, and White Women workers affected by discrimination.

[Continued on next page.]

FORTY INDUSTRIES' INTENTIONAL DISCRIMINATION* AGAINST WOMEN, BLACKS, HISPANICS, AND ASIANS, SHOWING AFFECTED WORKERS** AND DISCRIMINATION RISK BY INDUSTRY***										
SIC	Industry	WOMEN		BLACKS		HISPANICS		ASIANS		AFFECTED WORKERS
		#	% Rsk	#	%Rsk	#	%Rsk	#	%Rsk*	
806	Hospitals	63,908	21%	89,314	41%	19,562	22%	23,719	36%	196,503
581	Eating and Drinking Places	35,370	19%	55,591	43%	43,702	40%	3,530	40%	138,193
531	Department Stores	42,271	22%	50,959	37%	20,615	29%	5,414	31%	119,259
541	Grocery Stores	28,253	14%	53,333	41%	20,681	33%	1,559	24%	103,827
805	Nursing and Personal Care Facilities	13,865	14%	39,429	35%	7,247	34%	5,508	34%	66,049
737	Computer and Data Processing Services	31,114	26%	8,206	28%	1,986	27%	16,637	36%	57,943
701	Hotels and Motels	13,127	17%	17,960	29%	18,651	25%	6,471	32%	56,208
481	Telephone Communication	29,394	30%	19,857	32%	3,654	25%	2,886	33%	55,791
602	Commercial Banks	18,673	18%	20,131	37%	4,006	23%	4,821	30%	47,632
371	Motor Vehicles and Equipment	18,084	32%	14,470	36%	3,206	32%	1,732	37%	37,492
367	Electronic Components and Accessories	11,965	26%	3,001	33%	5,808	23%	11,748	35%	32,522
421	Trucking & Courier Services, Ex. Air	10,119	42%	15,842	35%	5,304	26%	501	32%	31,766
451	Air Transportation, Scheduled	15,651	32%	8,597	30%	4,057	22%	2,768	33%	31,073
308	Miscellaneous Plastics Products	11,109	33%	4,662	33%	7,216	35%	2,559	49%	25,547
514	Groceries and Related Products	11,184	32%	4,783	34%	6,077	32%	534	36%	22,577
809	Health and Allied Services	10,329	21%	6,767	35%	2,063	29%	1,478	32%	20,638
633	Fire, Marine, and Casualty Insurance	7,858	18%	4,012	22%	772	20%	754	32%	13,395
632	Medical Service and Health Insurance	5,733	19%	5,751	28%	914	21%	944	26%	13,341
372	Aircraft and Parts	5,901	29%	1,443	34%	2,611	17%	2,497	35%	12,453
357	Computer and Office Equipment	5,814	27%	1,310	28%	1,066	21%	4,170	32%	12,360
594	Miscellaneous Shopping Goods Stores	6,186	30%	3,216	36%	1,888	33%	619	28%	11,909
621	Security Brokers and Dealers	7,506	21%	2,277	29%	817	23%	1,122	21%	11,723
384	Medical Instruments and Supplies	5,474	25%	1,012	27%	1,821	27%	2,995	31%	11,301
871	Engineering & Architectural Services	6,487	23%	1,792	25%	715	18%	2,235	25%	11,229
504	Professional & Commercial Equipment	6,440	26%	1,984	26%	977	25%	1,632	29%	11,033
366	Communications Equipment	4,500	25%	1,269	20%	978	20%	3,839	36%	10,585
283	Drugs	5,301	23%	1,718	25%	1,185	24%	2,301	31%	10,504
801	Offices & Clinics Of Medical Doctors	4,936	19%	2,987	33%	1,028	22%	1,419	27%	10,370
275	Commercial Printing	4,869	29%	1,984	31%	1,486	31%	878	43%	9,216
201	Meat Products	2,286	32%	1,720	33%	3,517	28%	916	58%	8,439
641	Insurance Agents, Brokers, & Service	3,943	19%	2,768	30%	756	25%	756	25%	8,222
349	Misc. Fabricated Metal Products	3,440	35%	1,511	30%	1,683	29%	835	39%	7,469
836	Residential Care	2,481	21%	3,449	33%	854	28%	378	35%	7,163
267	Misc. Converted Paper Products	3,505	33%	1,511	30%	1,516	33%	456	44%	6,988
344	Fabricated Structural Metal Products	2,242	37%	1,660	33%	2,476	32%	511	48%	6,888
489	Communication Services	2,530	30%	1,322	27%	1,474	29%	1,474	29%	6,800
271	Newspapers	2,924	19%	2,094	37%	1,016	26%	337	31%	6,372
501	Motor Vehicles, Parts, and Supplies	2,579	29%	1,354	30%	1,010	31%	1,010	31%	5,953
209	Misc. Food and Kindred Products	2,024	32%	1,119	35%	2,091	25%	695	43%	5,930
225	Knitting Mills	1,396	34%	1,043	34%	700	46%	414	59%	3,553
Total affected workers		470,773		463,206		207,186		125,052		1,266,217
31% reduction for minority women included in Women totals		(145,940)								1,120,277
Percent of all affected Workers		75%		79%		73%		84%		77%
* Discrimination 1.65 or more standard deviations.										
**Affected Workers are the difference between employment in same labor market and occupation at 2 or more standard deviations below average, and number who would have been employed if establishment had employed at the average.										
***Risk based on proportion of comparisons of establishments in same labor market and occupation.										

Additional highlights of the Study include:

- The largest number of establishments discriminating against both minorities and women employed between 100 and 500 workers. 22,000 establishments of that size discriminated against minorities, 20,000 against women. These establishments contributed about half the intentional job discrimination against both minorities and women.
- Separate studies for each state and each metropolitan area where there is data are included in the nationwide study. “Discrimination, like politics, is essentially local,” the study states. “We hope this material will be studied by

those interested in civil rights to try to address this discrimination in each state and metro area.”

F. AFFIRMATIVE ACTION STILL NECESSARY

The study concludes that intentional discrimination is still so pervasive that affirmative action programs continue to be necessary. “ It is impossible to address the 75,000 establishments through formal law enforcement efforts. Congress was right in 1964 to make voluntary action the preferred means of improving opportunity for minorities and women, and it was right when it reaffirmed that principle in 1991.” Affirmative action programs are intended to allow employers who have reason to be concerned that they might be discriminating to take steps to correct their practices.

The statistics from this study will be helpful to all groups concerned with employment discrimination, the Study concludes. Employers would like to know where they stand compared to others; enforcement agencies and courts may use the information and those interested in civil rights can measure progress using the data. However, the Blumrosens doubt that the Federal Government, under either a Republican or Democratic administration is likely to use the study in ways they have suggested.

To address the needs of employers and workers, the Blumrosens have incorporated as EEO1.Inc., to make information available without identifying the names and addresses of any employer. The Study will be published on the web site, EEO1.com. This site will also include a program, the Discrimination Calculator, to enable workers and their representatives to find the likelihood of discrimination in labor markets, industries and occupations of interest to them without cost. Employers who are interested in comparative data and others who are entitled to it, may consult EEO1.com to find out how to obtain such data.

G. RECOMMENDATIONS

1. **Employers** should demand access to information that will tell them where they stand compared to similar employers so that they can decide whether to take affirmative action; they should insist that they be free to take such action whenever the statistics warrant it. Industries that exhibit serious discrimination should establish programs to assist their members whose employment practices tarnish the industry reputation.
 2. **The Federal Government** should provide statistical information to employers so that they will know where they stand; adopt a five year enforcement program based
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on the statistical analysis and incorporate state and local government efforts, focusing on the 40 and 206 industries identified in the Study, and seeking increased employment, leaving litigation over damages to the private bar. They should also extend the reporting requirement to all establishments with 50 or more employees.

3. **Congress** should mandate these federal programs, and provide additional funding to proceed against the 206 industries, and extend the reporting requirements to identify the age of employees, to facilitate enforcement of the age discrimination act.
 4. **The Federal Courts** should recognize the prevalence of intentional job discrimination in constitutional and statutory decisions on affirmative action; reconsider the assumption that employers are likely to adopt rigid programs without individualized proof that such was the case and recognize that intentional discrimination appears to reflect the unwillingness of roughly one third of establishments to work with people who are not "White."
 5. **State and Local Civil Rights Agencies** should secure EEO-1 data, urge interested groups to examine this study and initiate actions in their state based on the information. In addition, they should cooperate with the federal and other state agencies in enforcement programs; support affirmative action where statistics justify it, and encourage state and federal legislative leaders to address the prevalence of intentional discrimination as identified in this study.
 6. **Civil Rights and Women's organizations** should use this study in public discussions of discrimination; cooperate with each other in legislative and other public affairs because they have a mutual interest in eliminating job discrimination, particularly in the 40 industries that discriminate against all the groups they represent; evaluate government programs more by how many jobs are obtained and less by how many cases are processed, or how many dollars individual workers obtain; demand a focused set of governmental programs to address the 40/206 industries, and support expansion of the EEO-1 reports to the age act and all establishments of 50 or more workers.
 7. **Lawyers for both workers and employers** should develop a fair arbitration system for dealing with individual discrimination cases, so that resources can be focused on patterns or practices of discrimination.
 8. **Universities, colleges, high schools and research oriented institutions** should make use of this study in research activities, and should integrate this study into the work of other disciplines concerned with labor relations and human behavior.
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§18. ENDNOTES

1. Sec. 703(m) of Title VII of the Civil Rights Act of 1964, as amended by the Civil Rights Act of 1991.
 2. The total for all minorities will be smaller than the sum of individual minority groups because of the differences in the pools of workers being considered.
 3. Alfred W. Blumrosen, Ruth G. Blumrosen, *THE REALITY OF INTENTIONAL JOB DISCRIMINATION IN METROPOLITAN AMERICA* (2001).
 4. See National Report, Part I, Chapters 2-8 and Appendix C for more technical details.
 5. See National Report, Part I, Chapters 5-7.
 6. Sec. 703 (m) of Title VII of the Civil Rights Act of 1964, as amended by the Civil Rights Act of 1991.
 7. *Teamsters v. United States*, 431 US 324, n.15 (1977).
 8. *Teamsters, supra, Hazelwood School District v. United States*, 433 US 299 (1977).
 9. *Teamsters*, 431 US 324, n. 20.
 10. Statistics from Census Bureau. The statistics disregard individual reports that entered more than one race/ethnic category or another race. The average state had fewer than 2% of such reports.
 11. The extrapolation from Census figures used in Part I of the National Report is not available on a state-by-state basis. See Part I, National Report, Chapter 4.
 12. *Watson v. Fort Worth Bank And Trust*, 487 US 977 (1988). Alfred W. Blumrosen, *The Legacy of Griggs: Social Progress and Subjective Judgments*, 63 Chicago Kent L. Rev. 1 (1987).
 13. *EEOC v. Shell Oil Company*, 466 US 54, 71 (1984).
 14. See Table 1.
 15. Details in Appendix A.
 16. *Discrimination* is defined as 1.65 standard deviations or more below the average utilization in the same MSA, SIC and Occupational Category. *Comparisons* are between establishments in same MSA and SIC and Occupational Category. *Affected Workers* represents the difference between the actual utilization by a discriminating establishment that is at least two standard deviations below the average and the utilization that would exist if the discriminating establishment employed at the average in the same MSA, SIC and occupational category. Each table is arranged by the number of affected workers. The industries are titled so that the SIC numbers, which appear in the Appendix to the National Report, can be consulted.
 17. Detailed analysis of these Conclusions and Recommendations is contained in Part I of the National Report, Chapter 17.
 18. The OFCCP is a unit of the Department of Labor. Employers file their forms with the Joint Reporting Committee created by EEOC and OFCCP to simplify the reporting process.
 19. Sec. 703 (m) of Title VII of the Civil Rights Act of 1964, as amended by the Civil Rights Act of 1991.
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