The Effect of Compliance Activities on Workers Compensation Claims Rates in Washington State

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Promoting Safer, Healthier Workplaces

Safety & Health Assessment & Research for Prevention

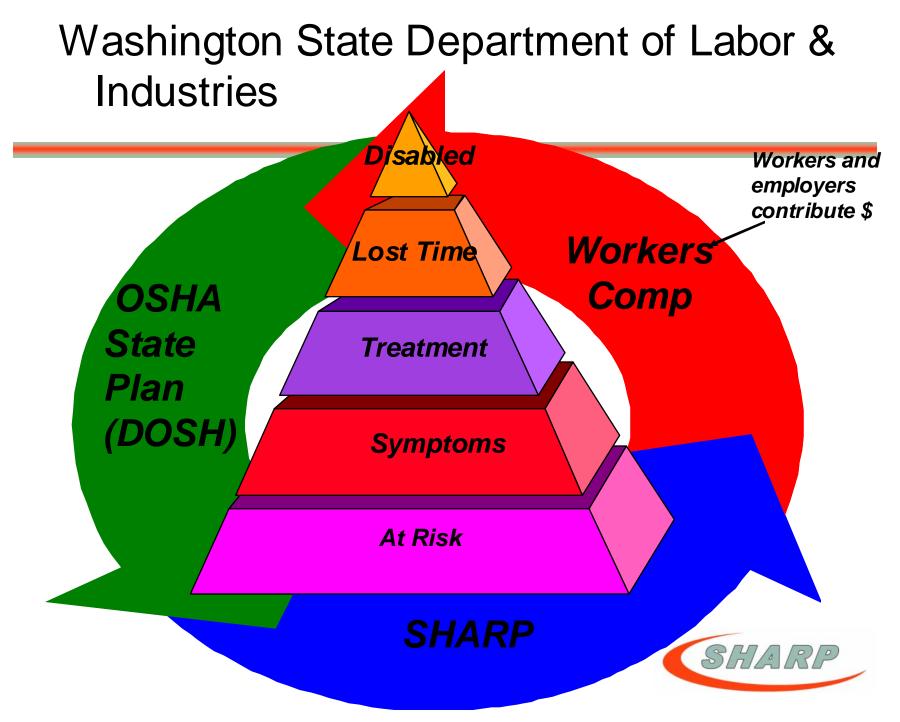
SHARP

Washington State Department of Labor and Industries, USA

Safety & Health Assessment and Research for Prevention (SHARP)

- SHARP conducts research, monitoring and demonstration projects that promote healthy work environments and the prevention of workplace injuries and illnesses
- <u>develop and analyze data</u> for injury & illness prevention
- <u>test hypotheses</u> and develop methods for evaluating workplace exposure and health
- provide information and promote technology transfer
- serve as a scientific resource

Economics, Epidemiology, Ergonomics, Health Education, Information systems, Industrial Hygiene, Occupational Medicine, Organizational Psychology, Safety Engineering, Toxicology



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Background

- US federal policy is shifting towards increased voluntary approaches rather than enforcement activities
- Previous studies on effectiveness
- Need for controlled worksite level studies of effectiveness



Compliance effectiveness: What to measure?

- Reduction in hazards
- Decreased absenteeism
- Decreased turnover
- Increased requests for consultations
- Employer survivability
- Decreased claims incidence rate



Study Questions

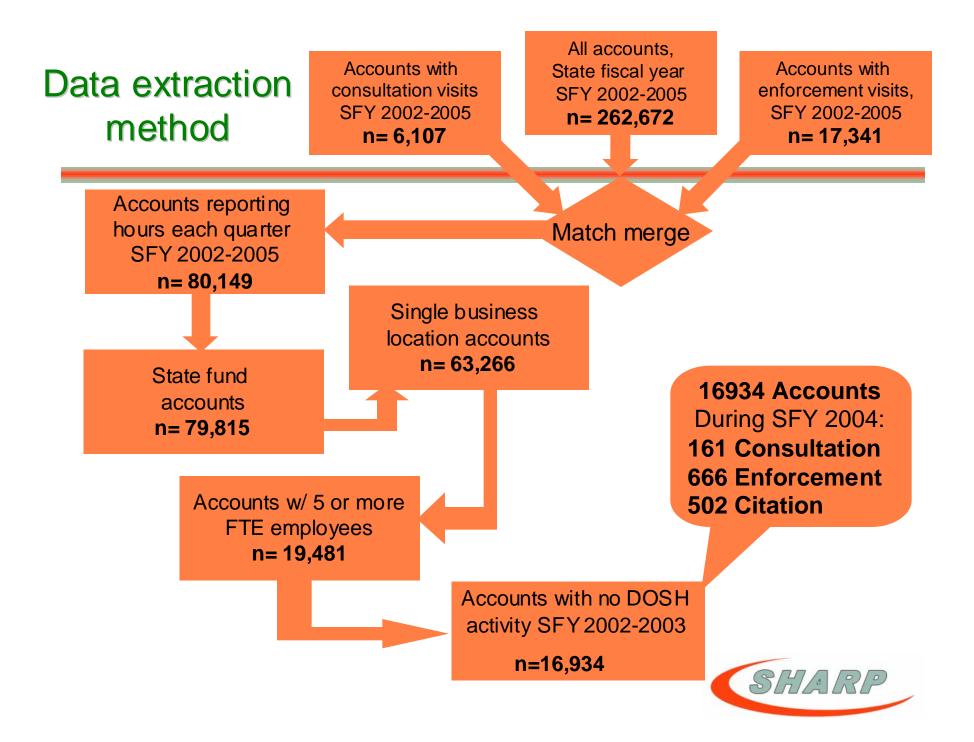
- How much impact did enforcement inspections and consultation visits have on the compensable claims rates?
- Did the impact of compliance activity differ by size of the employers? By industry?
- Did inspections with citations have a greater impact?
- General deterrence & specific deterrence



Study Time Periods

	ment	Measuremer	Baseline	Pre-Study Period		
SFY 2002 SFY 2003 SFY 2004 SFY 2	05	SFY 2005	SFY 2004	SFY 2003	SFY 2002	





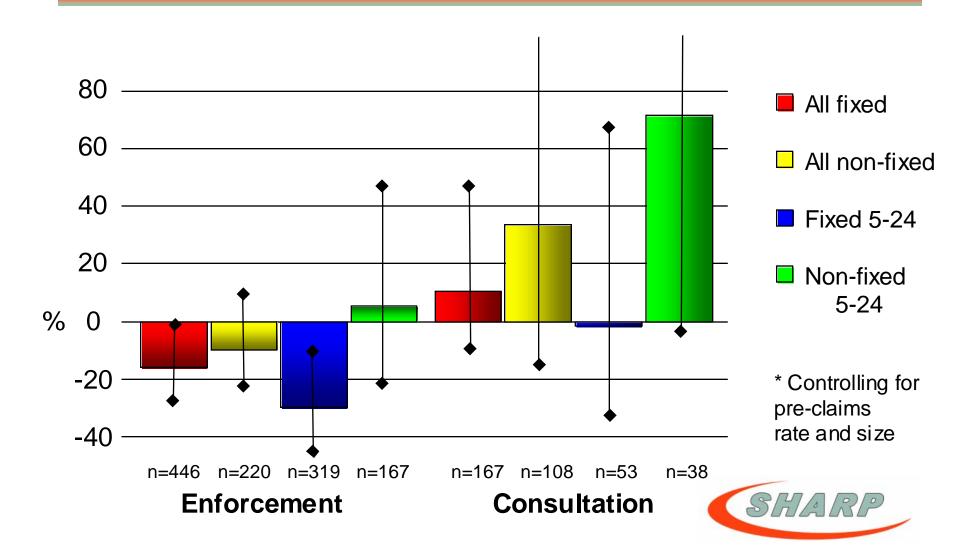
Compensable Claim Rates by DOSH Activity for Fixed and Non-Fixed SIC

			Compensable Rates (mean)			Rate Difference SFY 2004-2005		
SIC Categories	DOSH Categories	N	SFY 2002	SFY 2003	SFY 2004	SFY 2005	Mean	%
All		16934	1.74	1.65	1.64	1.61	-0.02	-1.32
Fixed SIC Non-fixed SIC		14128 2806	1.37 3.57	1.27 3.56	1.30 3.34	1.28 3.28	-0.01 -0.06	-1.03 -1.87
Fixed SIC	No DOSH	13592	1.32	1.20	1.23	1.24	0.01	0.77
SIC Catego	ories	Ν	J	SFY 2	2004	SFY	2005	%
Fixed SIC		14,1	128	1.3	80	1.	28	-1.03
Non-fixed	SIC	2,8	06	3.3	84	3.	28	-1.87
Excluded a	accounts	63,2	215	2.0)5	1.	90	-7.27
	Consultation	38	3.86	3.66	4.00	5.43	1.42	35.56
	Enforcement Both	<u>205</u> 15	<u>5.12</u> 4.76	<u>5.20</u> 6.96	4.28 4.25	<u>4.11</u> 3.95	<u>-0.16</u> -0.30	<u>-3.83</u> -7.11
Excluded accounts	s ¹	63215	2.06	1.98	2.05	1.90	-0.15	-7.27

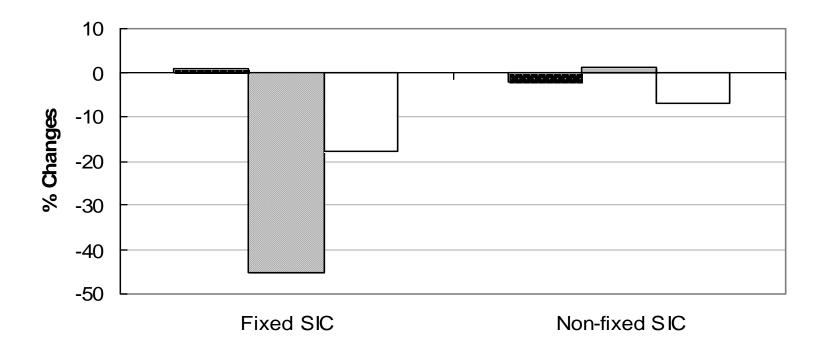
¹Survived 16 quarters.



% Change in Compensable Claims Rates by DOSH Activity 2004-2005*



Percent change in compensable claims rate by citation status, 2004-2005.

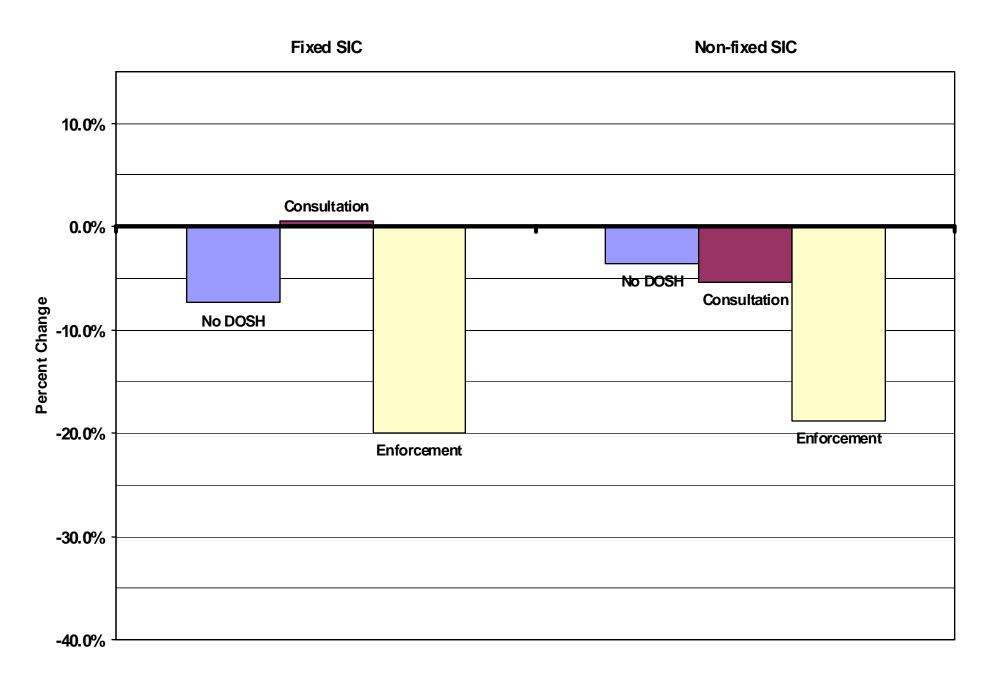


■ No DOSH ■ DOSH no citation □ DOSH with citation



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Study Years: 2002-2003



Main Results 1

- Enforcement among fixed-site industries is associated with a greater decline in claims.
- Smaller businesses show a greater drop in claims after enforcement visit.
- Enforcement effect appears weaker among non-fixed site industries.



Main Results 2

- No conclusive evidence for consultation.
- Citations effect contrary to expectations.
- No decrease in business survival after enforcement visit.



Study Limitations

- Can only use businesses with single business location (only 4-6% of DOSH activities)
- Small numbers for consultation visits
- Non-fixed worksites underrepresented
- Able to look at single site effects but not general effect (across the industry)



Study Strengths

- Can identify specific effect of compliance activity on a concrete outcome measure while controlling for other predictors
- Shows effect among small employers
- Can look at effect on survival

