



Profile: Public Warehousing and Storage



Office of General Industry Enforcement

Industry Group 422 – Public Warehousing and Storage

Industry Description:

Public warehousing and storage includes establishments engaged in the warehousing and storage of farm products, SIC 4221; perishable goods under refrigeration, SIC 4222; general line of goods, SIC 4225; and special products, not elsewhere classified, SIC 4226.

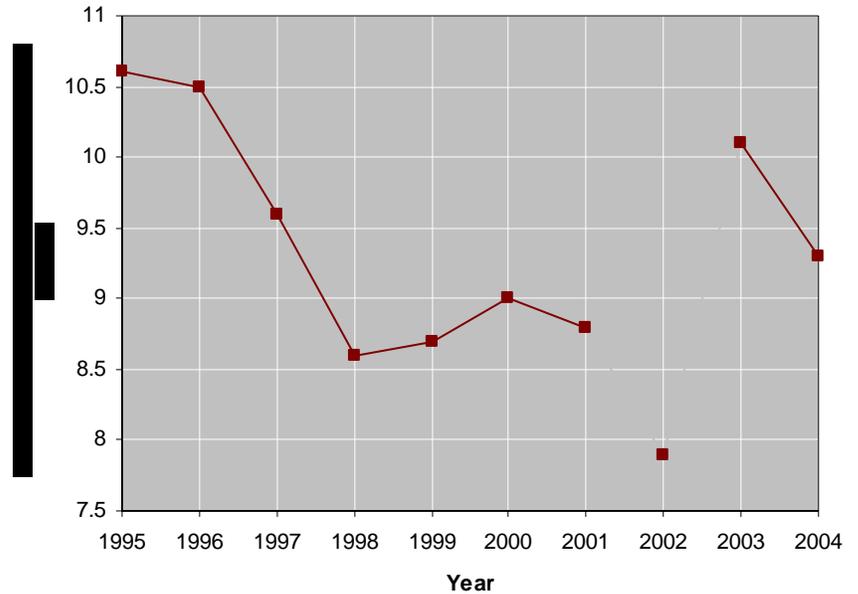
Process Description:

A fleet of trucks of various sizes is often required for delivery to and from the warehouse. Materials for storage are unloaded at the docks and placed in designated areas. Length of storage time ranges from a day to years. Items stored may include farm products such as beans, cotton, grains, potatoes, tobacco and wool. Special types of warehousing may also be used for automobile storage, fur storage, lumber terminals, oil and gasoline storage, petroleum and chemical bulk stations and terminals as well as for textiles and liquor. Refrigerated warehouses may store any type of perishable goods and some furs. Also included are food lockers, which may or may not provide services for processing, preparing, or packaging such food for storage. Materials are moved by either hand or mechanical handling equipment (forklifts, etc.) to storage bays or racks or refrigerated rooms.

BLS Profile Total Recordable Case Rate (Industry Group - 422)

Year	Annual
1995	10.6
1996	10.5(C)
1997	9.6
1998	8.6
1999	8.7
2000	9.0
2001	8.8
2002	7.9*
2003	10.1**
2004	9.3

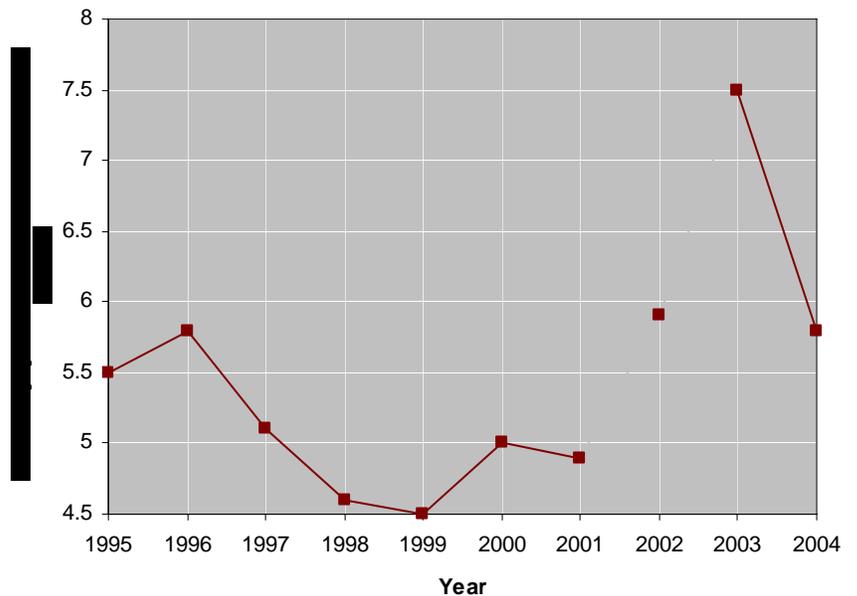
C : Continuity break



Lost Workday Case Rate (Industry Group - 422)

Year	Annual
1995	5.5
1996	5.8(C)
1997	5.1
1998	4.6
1999	4.5
2000	5.0
2001	4.9
2002	5.3*
2003	7.5**
2004	5.8

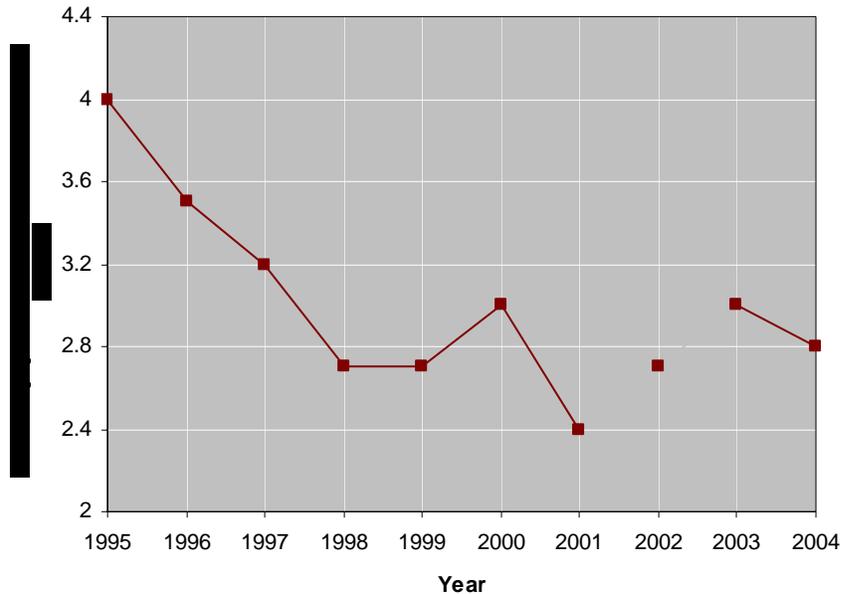
C : Continuity break



Cases with Days Away Rate (Industry Group - 422)

Year	Annual
1995	4.0
1996	3.5(C)
1997	3.2
1998	2.7
1999	2.7
2000	3.0
2001	2.4
2002	2.7*
2003	3.0**
2004	2.8

C : Continuity break



Fatality Total for NAICS Group 4931 (2004): 21

Source: Bureau of Labor Statistics (National data)

* Effective January 1, 2002, the Occupational Safety and Health Administration (OSHA) revise its requirements for reporting occupational injuries and illnesses. Due to the revised recordkeeping rule, the estimates from the 2002 survey are not comparable with those from previous years, thus resulting in the discontinuous graph lines.

** Beginning with the 2003 reference year, the BLS Survey of Occupational Injuries and Illnesses began using the 2000 North American Industry Classification System (NAICS). Prior to 2003, the survey used the Standard Industrial Classification (SIC) system. The substantial differences between these systems result in breaks in series for industry data.

National Summary by Region

NAICS 4931

Regions	Establishments with 10 or more employees	
	Establishments	Employees
1	279	18072
2	854	54123
3	472	40709
4	831	67967
5	1076	98979
6	920	72321
7	324	27968
8	155	7512
9	N/A	N/A
10	31	1772

N/A = Data not available

Establishment and employment counts come from Dunn & Bradstreet, March 2006.

Average Case and Demographic Characteristics

Average cases per year, 1995 - 2000		5,103
Demographics of worker	Sex	87.6% men
	Age	29.8% ages 25-34 28.9% ages 35-44 16.2% ages 45-54
	Length of service with employer	38.4% 1-5 years 36.5% less than 1 year 21.9% More than 5 years
	Race/ethnic origin	54.0% white non-Hispanic 15.1% Hispanic of any race 12.4% black non-Hispanic
Characteristics of injury/illness	Days away from work	49.9% 1-5 days 30.6% 6-30 days 19.5% 31 or more days
	Nature of injury/illness	46.2% sprains/strains 16.0% "all other" natures 11.9% bruises/contusions
	Part of body affected	28.2% back 25.2% legs/knees/feet/toes 16.4% arms/wrists/hands/fingers
	Source of injury/illness	26.9% containers 17.5% vehicles (incl. forklifts) 13.3% worker motion/position 13.0% floor/ground surfaces 10.3% "all other sources"
	Event or exposure	27.8% overexertion 15.2% struck by object 12.6% "all other" events/exposures 9.0% vehicle incidents

Source: OSHA Office of Statistical Analysis compilation of BLS data

Note: The percentages on this table do not sum to 100%. Only the most frequently coded characteristics are listed. The "All Other" category should not be interpreted as being all inclusive of the categories not listed above.

Inspection Summary

FY 2005 Federal OSHA Inspection Data Industry Group 422

Federal Data Only	I	II	III	IV	V	VI	VII	VIII	IX	X	Total
Total Inspections	27	87	44	41	70	55	22	10	20	13	389
Records Insp.	0	4	1	0	0	5	0	0	0	0	10
Safety	21	57	30	27	53	39	15	7	20	10	279
Health	6	30	14	14	17	16	7	3	0	3	110
Inspections By Type											
Unprogrammed	19	57	29	30	57	18	11	4	0	2	227
Accidents	0	2	1	3	2	3	0	1	0	0	12
Complaints	16	35	26	21	50	10	10	2	0	1	171
Referrals	3	15	2	1	2	0	0	1	0	1	25
Monitoring	0	0	0	0	0	0	0	0	0	0	0
Variance	0	0	0	0	0	0	0	0	0	0	0
Follow-Up	0	3	0	3	1	2	0	0	0	0	9
Unprog. Related	0	2	0	2	2	3	1	0	0	0	10
Other	0	0	0	0	0	0	0	0	0	0	0
Programmed	8	30	15	11	13	37	11	6	20	11	162
Planned	7	29	15	10	7	36	10	6	16	11	147
Prog. Related	0	0	0	1	5	1	0	0	4	0	11
Other	1	1	0	0	1	0	1	0	0	0	4

Source: IMIS Database

Top 10 Violations Cited

Std.	#Cited	#Insp	Description
1910.178	171	101	Powered Industrial Trucks
1910.1200	105	49	Hazard Communication
1910.37	71	53	Means of Egress
1910.305	69	48	Wiring Methods, Components, Equipment – General Use
1910.303	61	53	Electrical Systems Design, General
1910.147	52	23	The Control of Hazardous Energy, Lockout/Tagout
1910.157	52	44	Portable Fire Extinguishers
1910.23	47	32	Guarding Floor & Wall Openings
1910.134	40	15	Respiratory Protection
1910.176	40	37	Materials Handling

Source: IMIS Database – FY 2005 (Federal Only)

Average Number of Employees per Establishment: N/A
Percent small establishments: N/A

Some Potential Hazards and Their Sources

Hazard	Source
Slips and Trips	Floors – wet, icy; housekeeping issues
Vehicle – Vehicle Accidents	Mechanical handling equipment – forklifts, etc.
Vehicle – Employee Accidents	Mechanical handling equipment – forklifts, etc.
Falls	Overhead storage platforms
Crushing – Shifting or Falling Material	Mechanical handling equipment, dock boards, stored material
Respiratory Ailments, Headaches	Carbon monoxide

2003 BLS Industry Data for Industry Group 422 – PUBLIC WAREHOUSING AND STORAGE

All Reported Cases	14190	
Nature of Illness or Injury	Number	% Total
Sprains, Strains	6630	46.7
Fractures	1010	7.1
Cuts, Punctures	970	6.8
Bruises	1400	9.9
Heat Burns	N/A	N/A
Chemical Burns	N/A	N/A
Amputations	40	0.3
Carpal Tunnel	200	1.4
Tendonitis	160	1.1
Mult Trauma Total	580	4.1
Mult Trauma With Fracture	50	0.4
Mult Trauma With Sprain	310	2.2
Back Pain Total	1020	7.2
Back Pain Hurt Back Only	380	2.7
All Other	2130	15.0
Part of Body Affected	Number	% Total
Head Total	820	5.8
Eyes	580	4.1
Neck	230	1.6
Trunk Total	5690	40.1
Trunk Back	3630	25.6
Trunk Shoulder	1030	7.3
Upper Extremities Total	3070	21.6
Upper Extremities Finger	1050	7.4
Upper Extremities Hand	670	4.7
Upper Extremities Wrist	620	4.4
Lower Extremities Total	3010	21.2
Lower Extremities Knee	980	6.9
Lower Extremities Foot Toe	820	5.8
Body Systems	100	0.7
Multiple Body Parts	1160	8.2
All Other Body Parts	120	0.8
Source of Injury or Illness	Number	% Total
Chem And Chem Products	140	1.0
Containers	4820	34.0
Furniture And Fixtures	750	5.3
Machinery	770	5.4
Parts And Materials	640	4.5
Worker Motion	1920	13.5
Floors Walkways	1820	12.8
Handtools	430	3.0

Vehicle	1810	12.8
Health Care Patient	N/A	N/A
All Other Sources	1080	7.6

Sex	Number	% Total
Men	11030	77.7
Women	3160	22.3
Sex Not Reported	N/A	N/A

Age	Number	% Total
Under 14	N/A	N/A
14 to 15	N/A	N/A
16 to 19	580	4.1
20 to 24	2070	14.6
25 to 34	4000	28.2
35 to 44	3610	25.4
45 to 54	2540	17.9
55 to 64	920	6.5
65 And Over	70	0.5
Not Reported	400	2.8

Race	Number	% Total
White	5240	36.9
Black	1250	8.8
Asian	90	0.6
American Indian or Alaskan Native	150	1.1
Native Hawaiian Or Pacific Islander	N/A	N/A
Hispanic or Latino or Other	N/A	N/A
Multirace	N/A	N/A
Not Reported	5350	37.7

Length of Service	Number	% Total
Less Than 3 Months	1740	12.3
3 to 11 Months	3340	23.5
1 to 5 years	5380	37.9
More Than 5 Years	3720	26.2
Service Not Reported	N/A	N/A

Days away from work	Number	% Total
1 Day	1990	14.0
2 Days	1320	9.3
3 to 5 Days	2380	16.8
6 to 10 Days	1570	11.1
11 to 20 Days	1940	13.7
21 to 30 Days	980	6.9
31 Days Or More	4020	28.3
Median Days Away	10	N/A

Event/Exposure Leading to Injury	Number	% Total
Total Contact With Objects	4120	29.0
Struck By Object	2020	14.2

Struck Against Object	850	6.0
Caught In Object	960	6.8
Fall to Lower Level	500	3.5
Fall On Same Level	1580	11.1
Slips Or Trips	230	1.6
Overexertion Total	4780	33.7
Overexertion In Lifting	3010	21.2
Repetitive Motion	630	4.4
Exposure to Harmful Substance	260	1.8
Transportation Accidents	720	5.1
Fires And Explosions	N/A	N/A
Total Assaults - Violent Acts	20	0.1
Assaults By Person	20	0.1
All Other Assaults	N/A	N/A
All Other Events	1350	9.5

Photo Credit:

- 1) Warehouse scene - Occupational Safety and Health Administration Website.
www.osha.gov