

Pasadena Citizens' Advisory Council

Annual Report on Worker Safety

For Calendar Year 2024

**Occupational Safety and Health Administration (OSHA)
work-related injury and illness data
for employees and contractors
in 18 PCAC plants**

FINAL 4-7-25

PCAC PLANTS INCLUDE...

Refineries that refine crude oil into gasoline and other fuels; chemical plants that make organic and inorganic chemicals, and plastics; a wastewater treatment plant; and terminals that store liquids until shipment.

Some cases begin as restricted duty but become lost-time. Plants thus may show one injury in both categories.

Symbols used in report:

* no contractor hours - Enterprise Products

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Highlights

Pasadena CAC Plants in Years	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2010	2006	2004	2002	2000
Total work hours	11,282,448	14,884,025	12,261,974	10,246,081	11,450,548	13,453,653	14,046,937	13,519,023	15,433,320	14,349,900	13,640,052	14,693,700	15,785,172	10,043,741	12,345,007	
Employee work hours	5,065,259	5,505,101	5,530,998	5,409,639	6,291,458	6,068,196	6,242,680	6,248,911	6,463,995	7,160,389	7,019,174	7,899,336	7,204,147			
Contractor work hours	6,217,189	9,378,924	6,474,704	4,836,442	5,159,090	7,385,457	7,804,257	7,270,112	8,969,325	7,189,511	6,620,878	6,794,364	8,581,025			
Total workers (est. 2,080 per person)	5,424	7,156	5,895	4,926	5,505	6,468	6,753	6,500	7,420	6,899	6,558	7,064	7,589	4,829	5,935	
Employees	2,435	2,647	2,651	2,601	3,025	2,917	3,001	3,004	3,108	3,443	3,375	3,798	3,464			
Contractors	2,989	4,509	3,245	2,325	2,480	3,551	3,752	3,495	4,312	3,456	3,183	3,267	4,125			
Recordable injuries or illnesses	16	18	22	22	13	25	18	20	13	34	19	45	65	38	73	
Employees	8	11	7	19	11	14	15	18	8	19	8	25	30			
Contractors	8	7	15	3	2	11	3	2	5	15	11	20	35			
Number of recordables that were restricted duty cases	4	6	5	6	7	10	4	2	3	7	8	13	12			
Employees	3	4	2	6	7	6	4	2	1	5	4	11	7			
Contractors	1	2	3	0	0	4	0	0	2	2	4	2	5			
Number of recordables that were lost-time cases	3	3	8	16	6	8	9	9	6	15	5	16	20	14	26	
Employees	2	2	5	16	6	6	8	9	4	10	3	12	14	14	26	
Contractors	1	1	3	0	0	2	1	0	2	5	2	4	6	0	0	
Percentage of lost-times	19%	17%	36%	73%	46%	32%	50%	45%	46%	44%	26%	36%	31%	37%	36%	
Number of lost-time cases less than a week	1	0	0	2	2	1	2	1	1	1	1	3				
Employees	1	0	0	2	2	1	2	1	0	1	1	1				
Contractors	0	0	0	0	0	0	0	0	1	0	0	2				
Number of lost-time cases 1 week to 1 month	0	1	3	5	2	0	1	2	2	5	3	5				
Employees	0	1	2	5	2	0	1	2	1	1	2	4				
Contractors	0	0	1	0	0	0	0	0	1	4	1	1				

Highlights

Pasadena CAC Plants in Years	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2010	2006	2004	2002	2000
Number of lost-time cases more than a month	2	2	5	9	2	6	6	6	3	9	1	8				
Employees	1	1	3	9	2	5	5	6	3	8	0	7				
Contractors	1	1	2	0	0	1	1	0	0	1	1	1				
Fatalities	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1
Employee or Contractor					Employee											
Number of recordables from chemical exposure or contact	0	2	0	0	1	2	1	5	0	6	1	2				
Employees	0	2	0	0	1	2	1	5	0	6	1	1				
Contractors	0	0	0	0	0	0	0	0	0	0	0	1				
Weighted average of plant recordable rates	0.28	0.24	0.36	0.43	0.23	0.37	0.26	0.30	0.17	0.47	0.28	0.61	0.82	0.76	1.18	
Employees	0.32	0.40	0.25	0.70	0.35	0.46	0.48	0.58	0.25	0.53	0.23	0.63	0.83			
Contractors	0.26	0.15	0.44	0.12	0.08	0.30	0.08	0.06	0.11	0.42	0.33	0.59	0.82			
Simple average of plant recordable rates	0.33	0.72	0.37	1.32	0.47	0.46	0.49	0.62	0.12	0.48	0.38	0.65	0.95	1.01	1.47	2.64
Median of plant recordable rates	0.06	0.20	0.00	0.25	0.00	0.24	0.18	0.00	0.00	0.06	0.00	0.56	0.82	0.48	1.06	1.03
Employees	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51				
Contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58				

Highlights

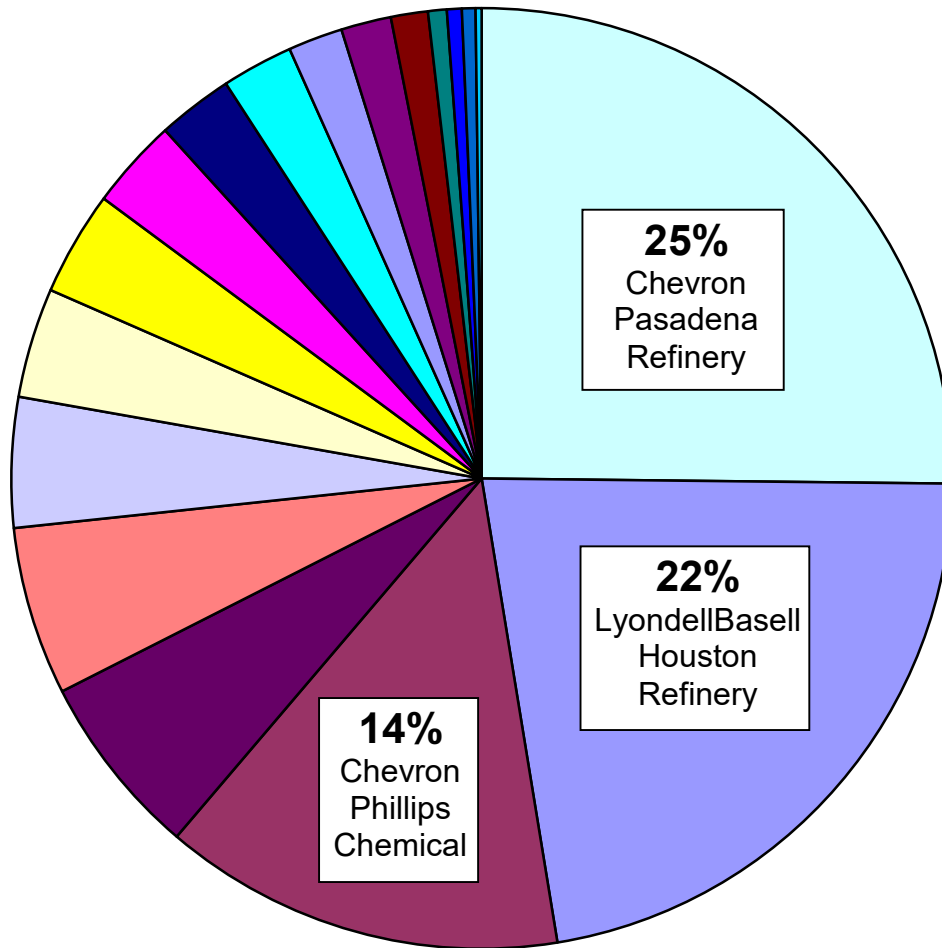
Pasadena CAC Plants in Years	2024	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2010	2006	2004	2002	2000
Number of plants with 0.00 for <u>both</u> employees & contractors	9*	7*	10*	9	10	8	8	10	11	9	9	6	2	5	4	
Employees	13	10	12	9	10	10	9	10	11	12	11	7				
Contractors	12	13	11	11	14	11	13	16	12	11	12	7				
* 1 plant used no contractors																
Most consecutive 0.00 rates for both	EP 4 years	AP 7 years	AP & KMET - 6 yrs	INEOS Phenol 10 yrs	INEOS Phenol 9 yrs	INEOS Phenol 8 yrs	Enterprise Products 8 yrs	Enterprise Products 7 yrs	Enterprise Products 6 yrs	Enterprise Products 5 yrs	Enterprise Products 4 yrs	Sekisui 4 yrs				
5-year average Rate over 5-year period	0.62	0.62	0.58	1.32	0.35	0.35	0.48	0.43	0.58	0.65	0.75	0.65				
Worker-safety-related 3rd party voluntary audit programs																
Certified in OSHA Voluntary Protection Program (VPP)	2 VPP	2 VPP	2 VPP	2 VPP	2 VPP	2 VPP	3 VPP	2 VPP	2 VPP	2 VPP	1 VPP, 1 Challenge	1				
Working toward OSHA VPP or Challenge audit	1 VPP/ Challenge	1 VPP/ Challenge	1 VPP/ Challenge	1 VPP/ Challenge	2 VPP/ Challenge	1 VPP/ Challenge	1 VPP/ Challenge	1 Challenge	0	1	2	5				
Scheduled for RCMS audit	**			**	**	7	5	6	4	6	4	2				
Not scheduled yet but corporation takes part in program	**			**	**	4	2	2	2	2	3	1				
						2	1	2	2	3	4	4				

** Question removed beginning in 2020

Plant Size by Work Hours in 2024

11,282,448 Total Work Hours

61% of total hours worked in 3 plants with more than 1 million work hours each



■	Chevron Pasadena Refinery 2,840,460
■	LyondellBasell Houston Refinery 2,509,540
■	Chevron Phillips Chemical 1,557,276
■	KM Pasadena Terminal 711,925
■	Ketjen (was Albemarle) 653,102
■	OxyChem Pasadena PVC 503,517
■	Next Wave Energy Partners 426,717
■	Intercontinental Terminals 403,874
■	BASF 350,902
■	Afton Chemical 292,703
■	INEOS Phenol 277,442
■	Air Products 212,115
■	Sekisui 193,733
■	Evonik 143,035
■	Gulf Coast Authority 73,215
■	KM Export Terminal 56,965
■	Enterprise Products* 53,060
■	Ethyl 22,867

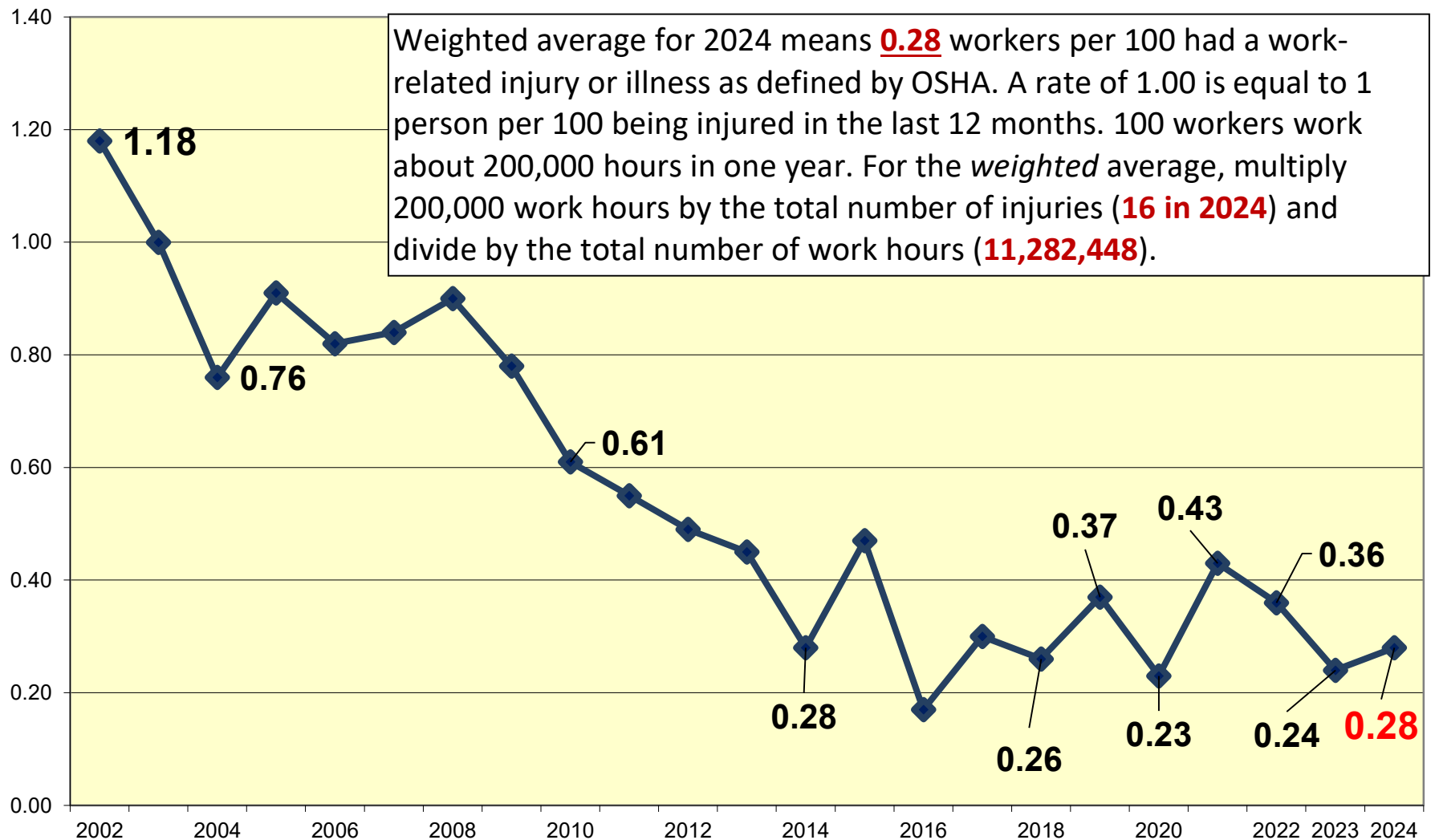
PCAC WORK-HOURS, NUMBERS OF INCIDENTS, RATES, AVERAGES in 2023

Approximate full-time equivalent employee count = work hours divided by 2,080 (hours one person works in a year)

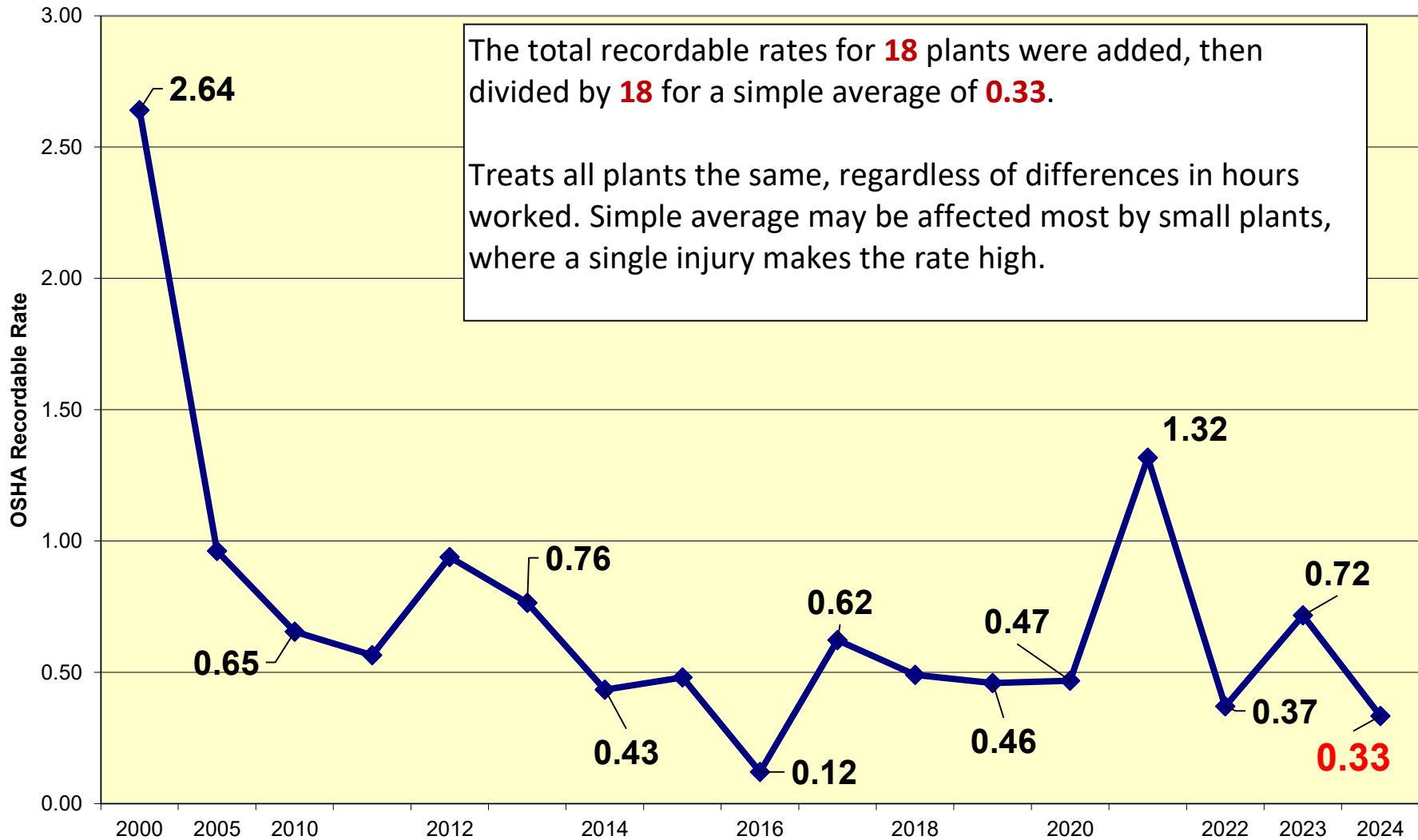
Plant size. Total recordable numbers and rates. Weighted averages.	Total work hours -- employees and contractors unless asterisk	Total no. of OSHA recordables	No. of restricted-duty cases	Total no. of lost-time cases	No. of lost- time cases less than 1 week	No. of lost- time cases 1 wk to 1 month	No. of lost- time cases more than 1 mo.	No of fatalities	No. due to chemical contact, exposure	Total restricted duty rate	Total lost- time rate	Total recordable rate
Chevron Pasadena Refinery	2,840,460	4	2	0	0	0	0	0	0	0.14	0.00	0.28
LyondellBasell Houston Refinery	2,509,540	2	1	1	0	0	1	0	0	0.08	0.08	0.16
Chevron Phillips Chemical	1,557,276	1	0	0	0	0	0	0	0	0.00	0.00	0.13
KM Pasadena Terminal	711,925	2	0	1	0	0	1	0	0	0.00	0.28	0.56
Ketjen (was Albemarle)	653,102	0	0	0	0	0	0	0	0	0.00	0.00	0.00
OxyChem Pasadena PVC	503,517	1	0	0	0	0	0	0	0	0.00	0.00	0.40
Next Wave Energy Partners	426,717	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Intercontinental Terminals	403,874	2	1	0	0	0	0	0	0	0.50	0.00	0.99
BASF	350,902	1	0	0	0	0	0	0	0	0.00	0.00	0.57
Afton Chemical	292,703	0	0	0	0	0	0	0	0	0.00	0.00	0.00
INEOS Phenol	277,442	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Air Products	212,115	2	0	0	0	0	0	0	0	0.00	0.00	1.89
Sekisui	193,733	1	0	1	1	0	0	0	0	0.00	1.03	1.03
Evonik	143,035	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Gulf Coast Authority	73,215	0	0	0	0	0	0	0	0	0.00	0.00	0.00
KM Export Terminal	56,965	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Enterprise Products*	53,060	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Ethyl	22,867	0	0	0	0	0	0	0	0	0.00	0.00	0.00
totals & simple average	11,282,448	16	4	3	1	0	2	0	0	0.04	0.08	0.33
			0 restricted duty cases became lost-time cases.							simple average of restricted duty rate	simple average of lost-time rate	simple average of total recordable rate
weighted averages		0.28	0.07	0.05	0.02	0.00	0.04	0.00	0.00			

* no contractor hours - Enterprise Products

Trend in Weighted Averages 2024



Trend in Simple Average 2024



ANNUAL REPORT ON SAFETY FOR CALENDAR YEAR 2024

Pasadena Citizens' Advisory Council

TOTAL RECORDABLE RATES FOR 18 PCAC PLANTS

Recordable Rate = 200,000 work hours multiplied by number of injuries, then divided by work hours

Total Recordable Rate (employees and contractors combined, unless asterisked). Plants in alphabetical order.

	2000	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Afton Chemical								0.00	0.00	0.00	2.63	0.00	0.00	0.52	0.00	0.64	0.00
Air Products	0.41	1.57	0.00	1.29	0.00	0.44	1.78	0.25	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89
BASF	0.62	0.00	0.70	0.00	0.00	0.68	0.00	0.00	0.00	0.27	1.37	0.74	0.00	0.00	0.59	0.80	0.57
Chevron Pasadena Refinery		2.09	0.62	0.77	1.18	0.26	0.56	1.00	0.25	0.00	0.42	0.48	0.18	0.45	0.54	0.39	0.28
Chevron Phillips Chemical	13.39	0.45	0.37	0.67	0.77	1.09	0.12	0.52	0.25	0.31	0.00	0.36	0.15	0.25	0.31	0.31	0.13
Enterprise Products*			2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	1.55	0.00	0.00	0.00	0.00
Ethyl	1.18	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.98	0.00	0.00	0.00
Evonik										2.36	0.00	0.00	0.00	0.00	1.85	0.00	0.00
Gulf Coast Authority			0.00	0.00	5.49	2.60	2.45	0.00	0.00	0.00	0.00	0.00	3.04	5.86	0.00	5.46	0.00
INEOS Phenol	2.10	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.84	0.00
Intercontinental Terminals						0.00	0.00	0.71	0.25	0.00	0.35	0.33	0.55	0.00	0.00	0.00	0.99
Ketjen (was Albemarle)	0.75	0.28	1.35	0.00	0.53	0.29	0.00	0.85	0.00	0.30	0.31	0.67	0.00	0.00	0.00	0.31	0.00
KM Export Terminal										0.00	0.00	0.00	0.00	0.00	0.00	3.69	0.00
KM Pasadena Terminal	1.03	0.00	0.75	0.00	0.56	0.30	0.00	0.00	0.00	0.00	1.24	0.62	0.41	1.37	0.57	0.26	0.56
LyondellBasell Houston Refinery	0.86	0.73	0.49	0.30	0.26	0.16	0.24	0.11	0.14	0.09	0.06	0.15	0.09	0.32	0.00	0.14	0.16
Next Wave Energy Partners															0.85	0.05	0.00
OxyChem Pasadena PVC	0.77	0.93	0.93	0.00	0.00	1.85	0.46	0.00	0.00	0.98	0.46	0.43	0.00	1.30	0.85	0.00	0.40
Sekisui	0.00	1.54	0.00	0.00	0.00	0.00	1.29	1.02	0.00	2.61	1.39	0.00	0.00	1.33	0.00	0.00	1.03

Site History: Crown refinery (sold to Pasadena Refining)

2.70

Site History: Houston Products Processing *

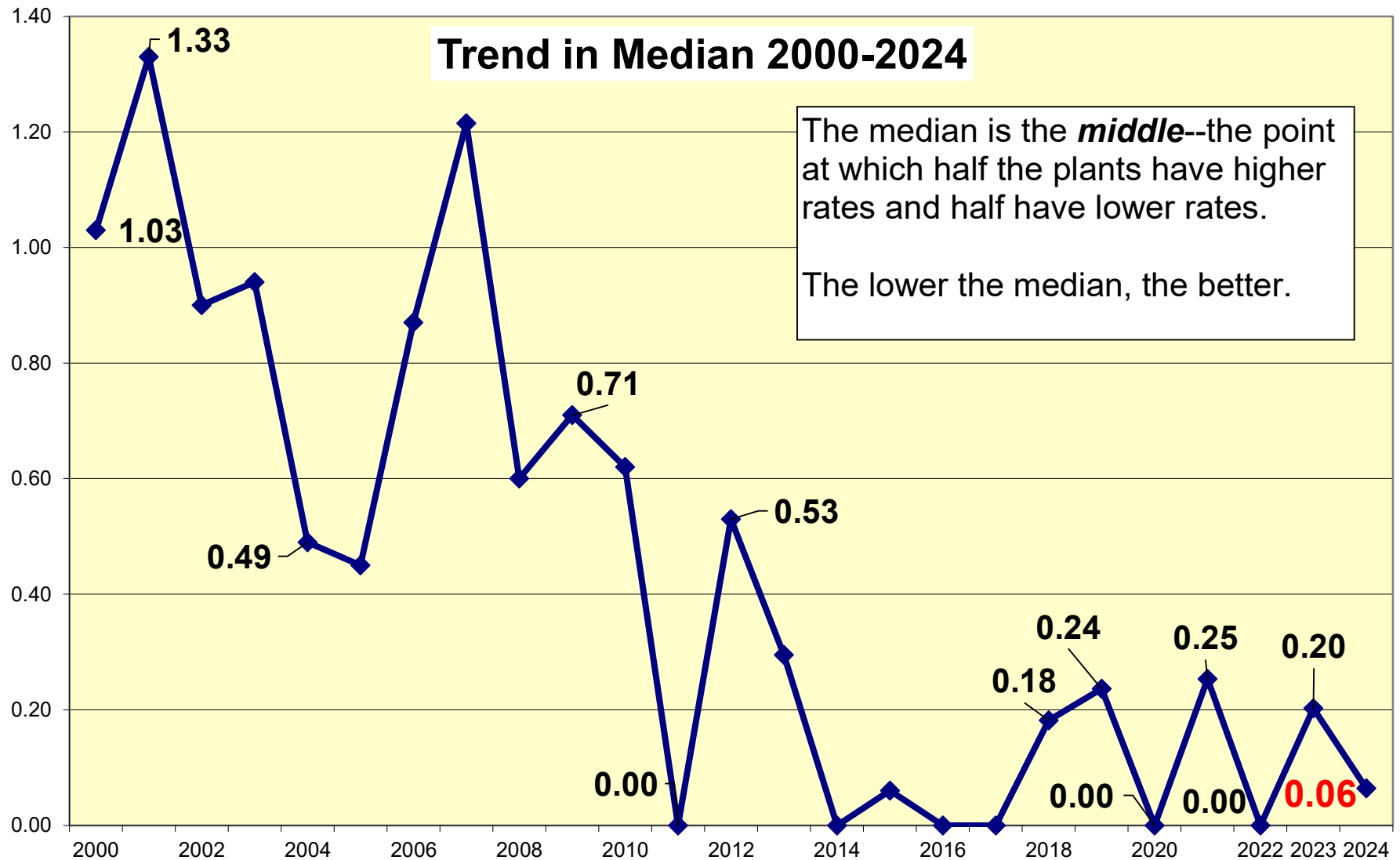
Site History Sun Edison

Site History: PCI Nitrogen

Simple average of plant rates

	0.00	0.00	0.00	3.18	2.89	0.00	0.00										
	2.75	3.64	0.92	2.25	0.00	1.44	0.00	2.85									
	7.77	2.23	2.20	2.31	1.76	0.99	0.47	1.34	0.71	4.28	0.62	2.30	2.44	-----			
	2.64	0.96	0.65	0.57	0.94	0.76	0.43	0.48	0.12	0.62	0.49	0.46	0.47	1.32	0.37	0.72	0.33
2000	2005	2010		2012		2014		2016		2018		2020		2022	2023	2024	

* no contractor hours



2024 TOTAL RECORDABLE RATES WITH RANGE & MEDIAN

median is the middle--half of the plants have higher rates and half have lower rates

PCAC Plants - Ranking Lowest to Highest 2024 Median (half plants higher, half lower)

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	Ranking by Lowest to Highest Recordable Rate
Afton Chemical																0.00	0.00	0.00	2.63	0.00	0.00	0.52	0.00	0.64	0.00	Afton Chemical
Enterprise Products*								14.17	0.00	1.24	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	1.55	0.00	0.00	0.00	0.00	Enterprise Products*
Ethyl	1.18	0.94	0.00	1.87	1.54	0.00	0.77	1.62	1.10	0.00	0.00	0.00	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.98	0.00	0.00	0.00	Ethyl
Evonik																		2.36	0.00	0.00	0.00	0.00	1.85	0.00	0.00	Evonik
Gulf Coast Authority										3.26	0.00	0.00	5.49	2.60	2.45	0.00	0.00	0.00	0.00	0.00	3.04	5.86	0.00	5.46	0.00	Gulf Coast Authority
INEOS Phenol	2.10	3.28	0.00	0.00	3.08	0.00	0.00	3.12	0.00	0.00	0.00	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.84	0.00	INEOS Phenol
Ketjen (was Albemarle)	0.75	1.34	0.68	0.47	1.01	0.28	1.14	0.56	0.00	0.27	1.35	0.00	0.53	0.29	0.00	0.85	0.00	0.30	0.31	0.67	0.00	0.00	0.00	0.31	0.00	Ketjen (was Albemarle)
KM Export Terminal																		0.00	0.00	0.00	0.00	0.00	0.00	3.69	0.00	KM Export Terminal
Next Wave Energy Partners																							0.85	0.05	0.00	Next Wave Energy Partners
Chevron Phillips Chemical	13.39	1.42	0.90	0.94	0.49	0.45	1.04	1.18	1.28	0.41	0.37	0.67	0.77	1.09	0.12	0.52	0.25	0.31	0.00	0.36	0.15	0.25	0.31	0.31	0.13	Chevron Phillips Chemical
LyondellBasell Houston Refinery	0.86	0.98	0.63	0.60	0.37	0.73	0.44	0.46	0.81	0.74	0.49	0.30	0.26	0.16	0.24	0.11	0.14	0.09	0.06	0.15	0.09	0.32	0.00	0.14	0.16	LyondellBasell Houston Refinery
Chevron Pasadena Refinery						2.09	1.73	1.31	0.75	0.58	0.62	0.77	1.18	0.26	0.56	1.00	0.25	0.00	0.42	0.48	0.18	0.45	0.54	0.39	0.28	Chevron Pasadena Refinery
OxyChem Pasadena PVC	0.77	0.89	1.25	0.44	0.00	0.93	0.46	0.00	0.45	0.45	0.93	0.00	0.00	1.85	0.46	0.00	0.00	0.98	0.46	0.43	0.00	1.30	0.85	0.00	0.40	OxyChem Pasadena PVC
KM Pasadena Terminal	1.03	1.04	2.75	3.00	2.47	0.00	0.87	1.25	2.18	0.71	0.75	0.00	0.56	0.30	0.00	0.00	0.00	0.00	1.24	0.62	0.41	1.37	0.57	0.26	0.56	KM Pasadena Terminal
BASF	0.62	1.33	1.76	1.17	0.00	0.00	0.77	0.00	0.00	2.04	0.70	0.00	0.00	0.68	0.00	0.00	0.00	0.27	1.37	0.74	0.00	0.00	0.59	0.80	0.57	BASF
Intercontinental Terminals														0.00	0.00	0.71	0.25	0.00	0.35	0.33	0.55	0.00	0.00	0.00	0.99	Intercontinental Terminals
Sekisui	0.00	0.00	0.00	0.00	0.00	1.54	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	1.02	0.00	2.61	1.39	0.00	0.00	1.33	0.00	0.00	1.03	Sekisui
Air Products	0.41	0.44	1.06	0.33	0.46	1.57	0.69	0.51	0.47	0.67	0.00	1.29	0.00	0.44	1.78	0.25	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	Air Products

Site History: Crown (sold to Pasadena Refining)

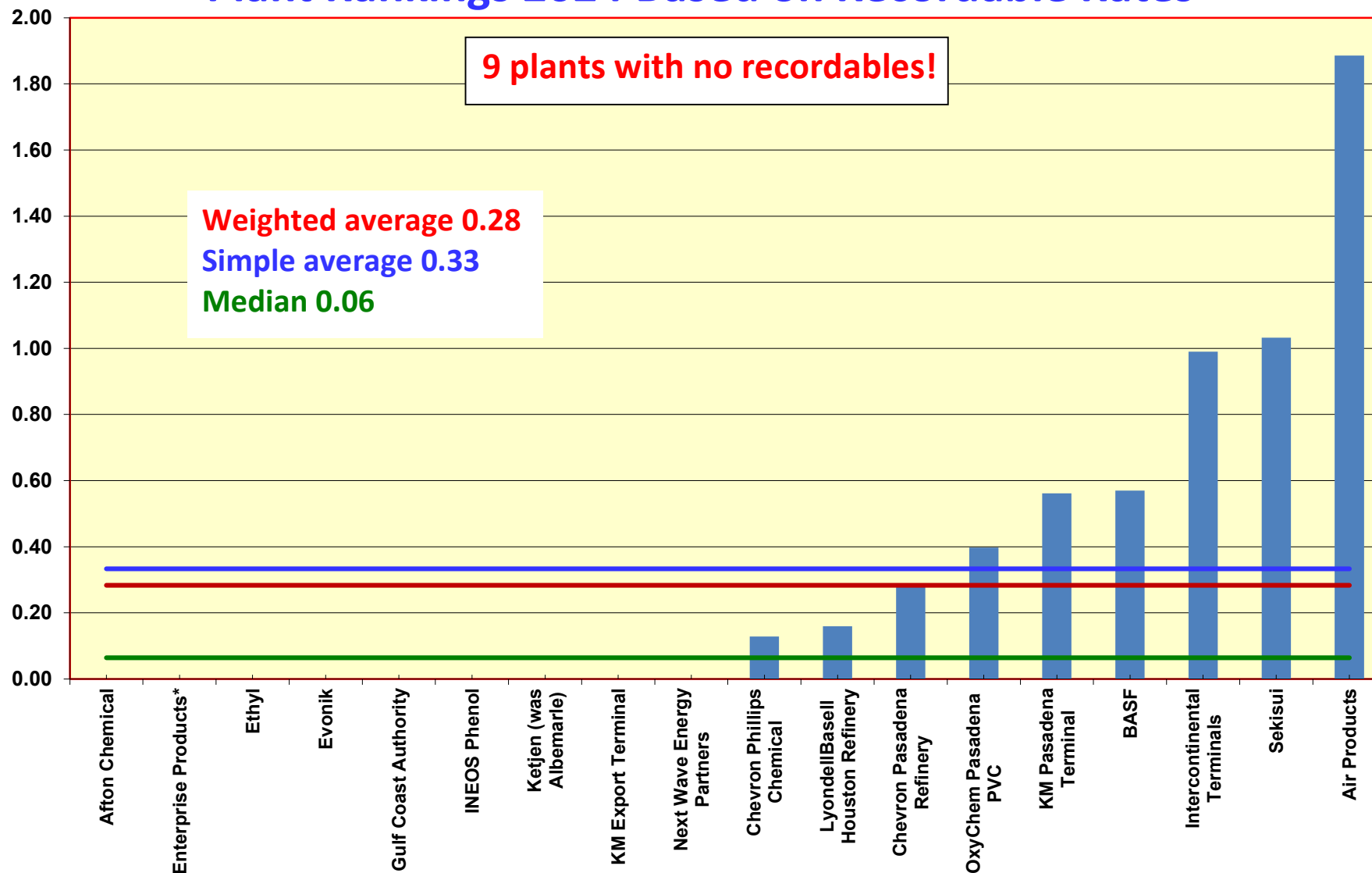
	2.70	2.78	3.39	3.64	1.82																					Houston Products Processing *
Site History: HPP					0.00	0.00	0.00	0.00	0.00	3.39	0.00	0.00	3.18	2.89	0.00	0.00										PCI Nitrogen
Site History: PCI Nitrogen	7.77	11.04	3.65	1.65	0.39	2.23	1.18	1.61	0.84	0.75	2.20	2.31	1.76	0.99	0.47	1.34	0.71	4.28	0.62	2.30	2.44	-----				Sun Edison
Site History: Sun Edison	2.75	4.13	3.07	3.05	2.49	3.64	1.17	2.02	3.63	3.13	0.92	2.25	0.00	1.44	0.00	2.85										

Median

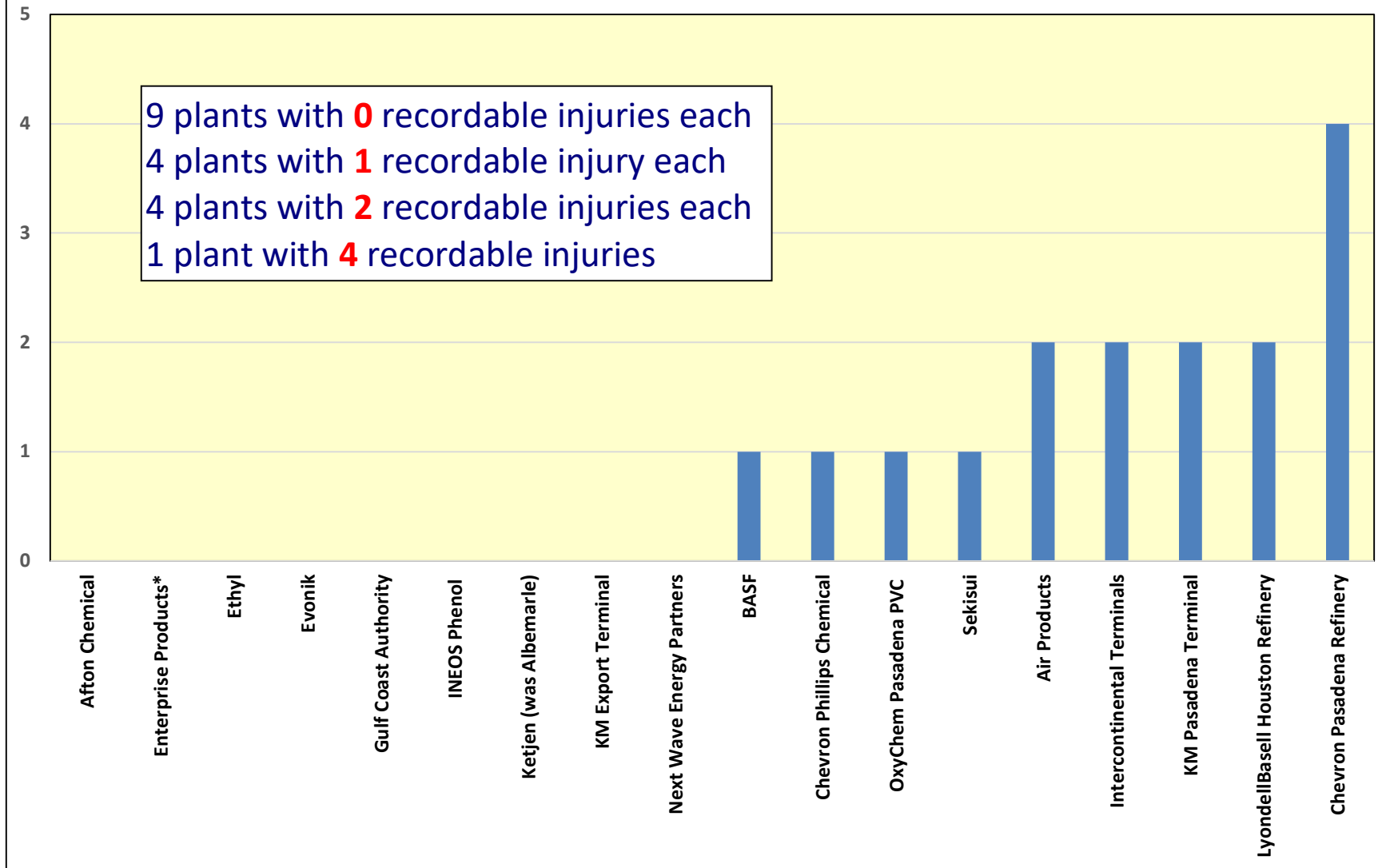
1.03	1.33	0.90	0.94	0.49	0.45	0.87	1.22	0.60	0.71	0.62	0.00	0.53	0.30	0.00	0.06	0.00	0.00	0.18	0.24	0.00	0.25	0.00	0.20	0.06
2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024

* no contractor hours

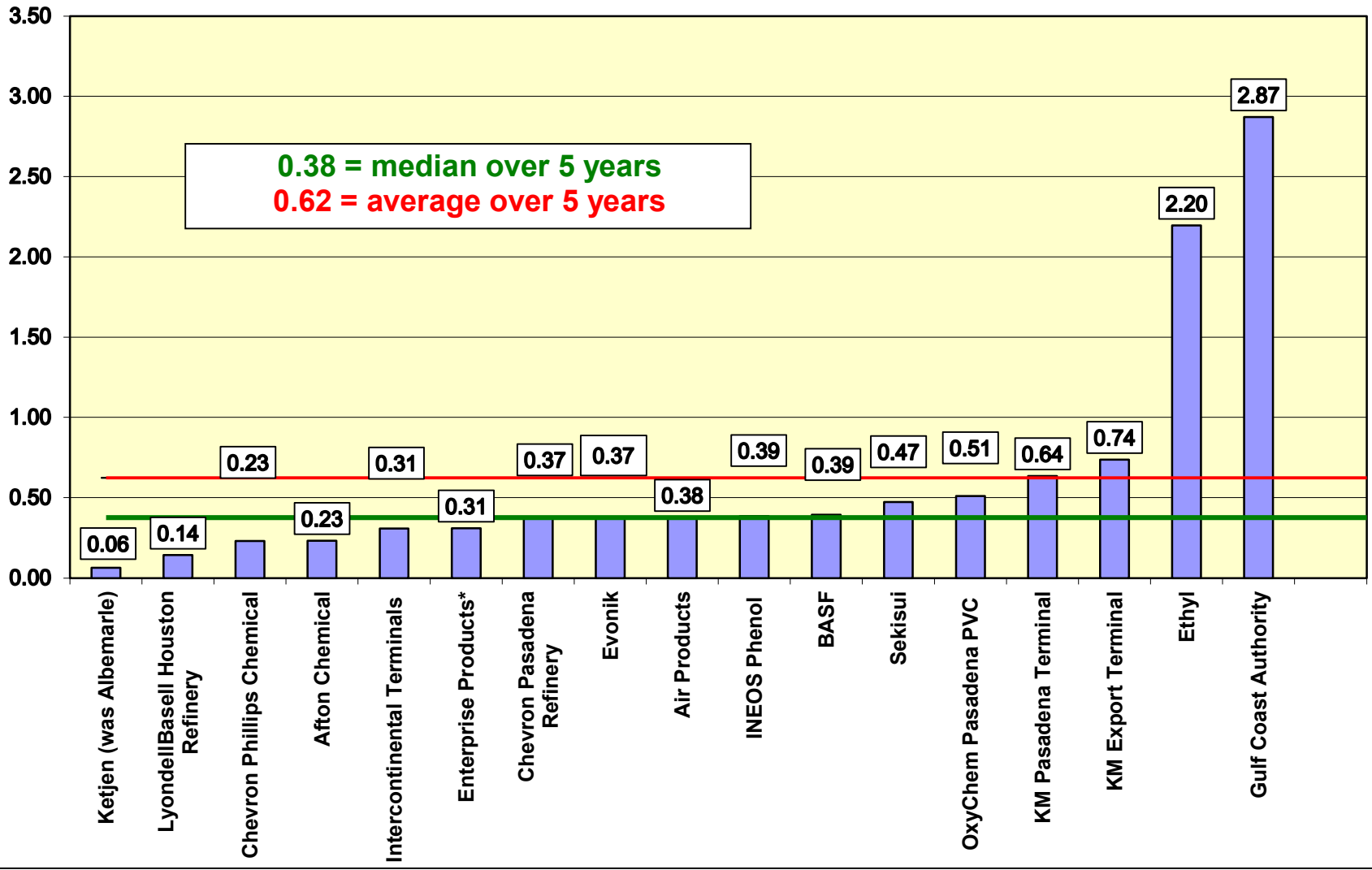
Plant Rankings 2024 Based on Recordable Rates



Plant Rankings by *Number of Recordables* - 2024



5-Year Plant Ranking by Average Recordable *Rates* 2020-2024 for plants in PCAC for 5 or more years



ANNUAL REPORT ON SAFETY FOR CALENDAR YEAR 2024

Pasadena Citizens' Advisory Council

5-YEAR AVERAGES for plants with 5 years of data

Total Recordable Rate (employees and contractors combined)

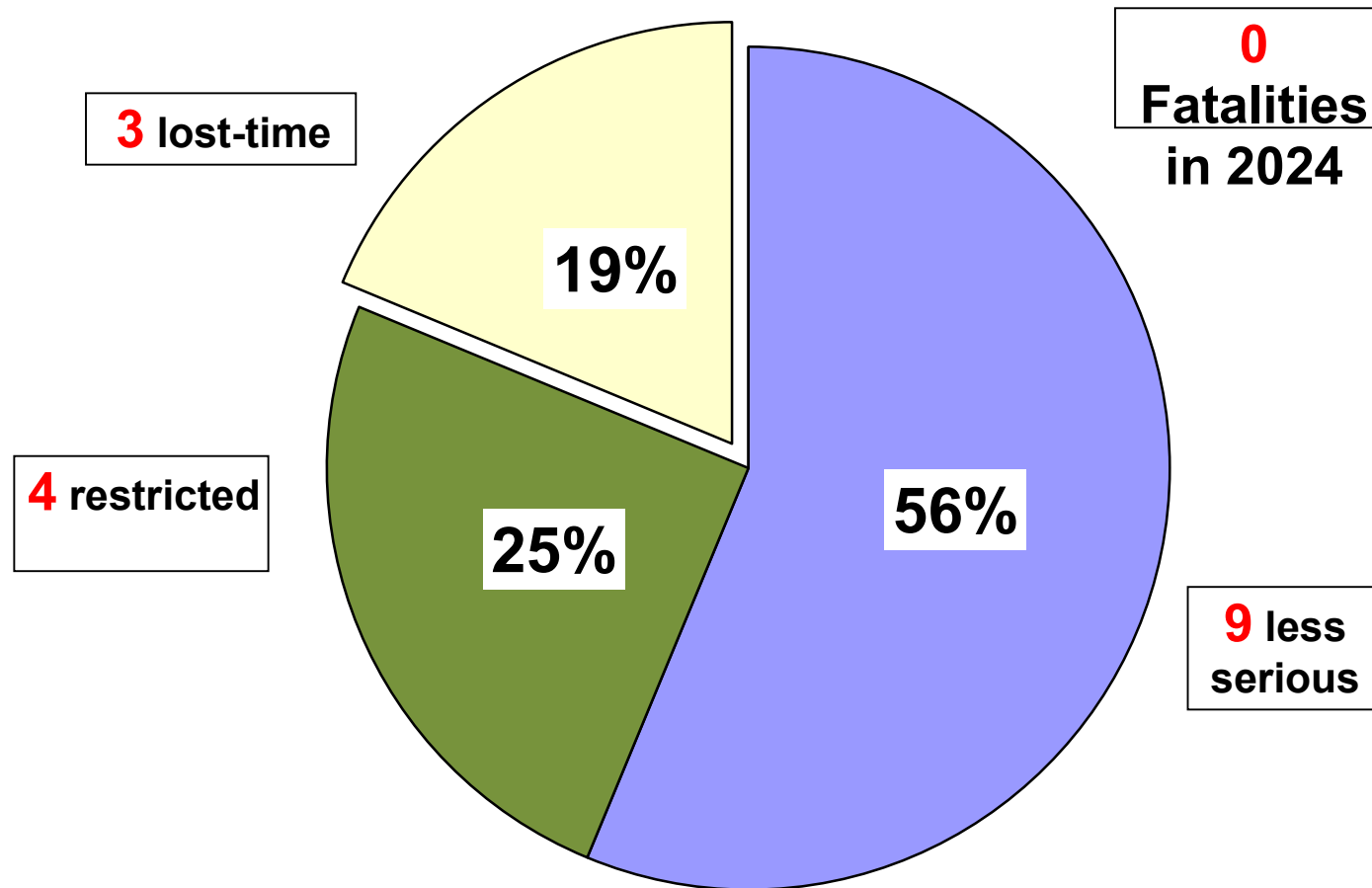
Plant Name	5-yr avg	2020	2021	2022	2023	2024
Ketjen (was Albemarle)	0.06	0.00	0.00	0.00	0.31	0.00
LyondellBasell Houston Refinery	0.14	0.09	0.32	0.00	0.14	0.16
Chevron Phillips Chemical	0.23	0.15	0.25	0.31	0.31	0.13
Afton Chemical	0.23	0.00	0.52	0.00	0.64	0.00
Intercontinental Terminals	0.31	0.55	0.00	0.00	0.00	0.99
Enterprise Products*	0.31	1.55	0.00	0.00	0.00	0.00
Chevron Pasadena Refinery	0.37	0.18	0.45	0.54	0.39	0.28
Evonik	0.37	0.00	0.00	1.85	0.00	0.00
Air Products	0.38	0.00	0.00	0.00	0.00	1.89
INEOS Phenol	0.39	0.00	0.00	1.09	0.84	0.00
BASF	0.39	0.00	0.00	0.59	0.80	0.57
Sekisui	0.47	0.00	1.33	0.00	0.00	1.03
OxyChem Pasadena PVC	0.51	0.00	1.30	0.85	0.00	0.40
KM Pasadena Terminal	0.64	0.41	1.37	0.57	0.26	0.56
KM Export Terminal	0.74	0.00	0.00	0.00	3.69	0.00
Ethyl	2.20	0.00	10.98	0.00	0.00	0.00
Gulf Coast Authority	2.87	3.04	5.86	0.00	5.46	0.00
5- yr in order from best to highest	5-yr avg	2020	2021	2022	2023	2024

Average of 5-yr plant rates	0.62	0.35	1.32	0.34	0.76	0.35
Median of 5-year plant rates	0.38					

* no contractor hours

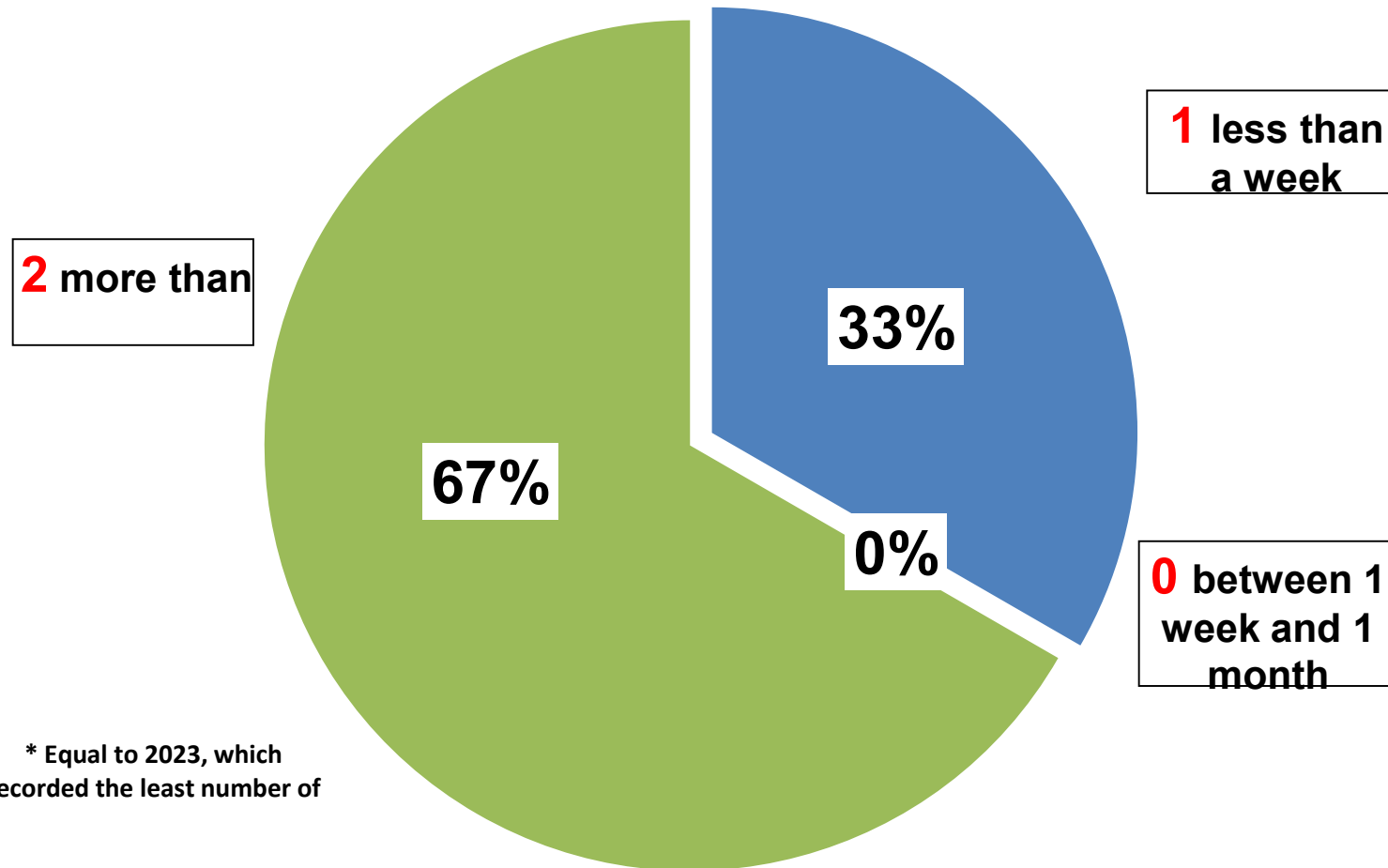
Next Wave Energy does not have 5 years of data; will have 5 years of data with the CY 2026 report

Severity of Injury or Illness in 2024



Severity of the 3 Lost-Time Cases in 2024*

based on number of days away from work



* Equal to 2023, which recorded the least number of

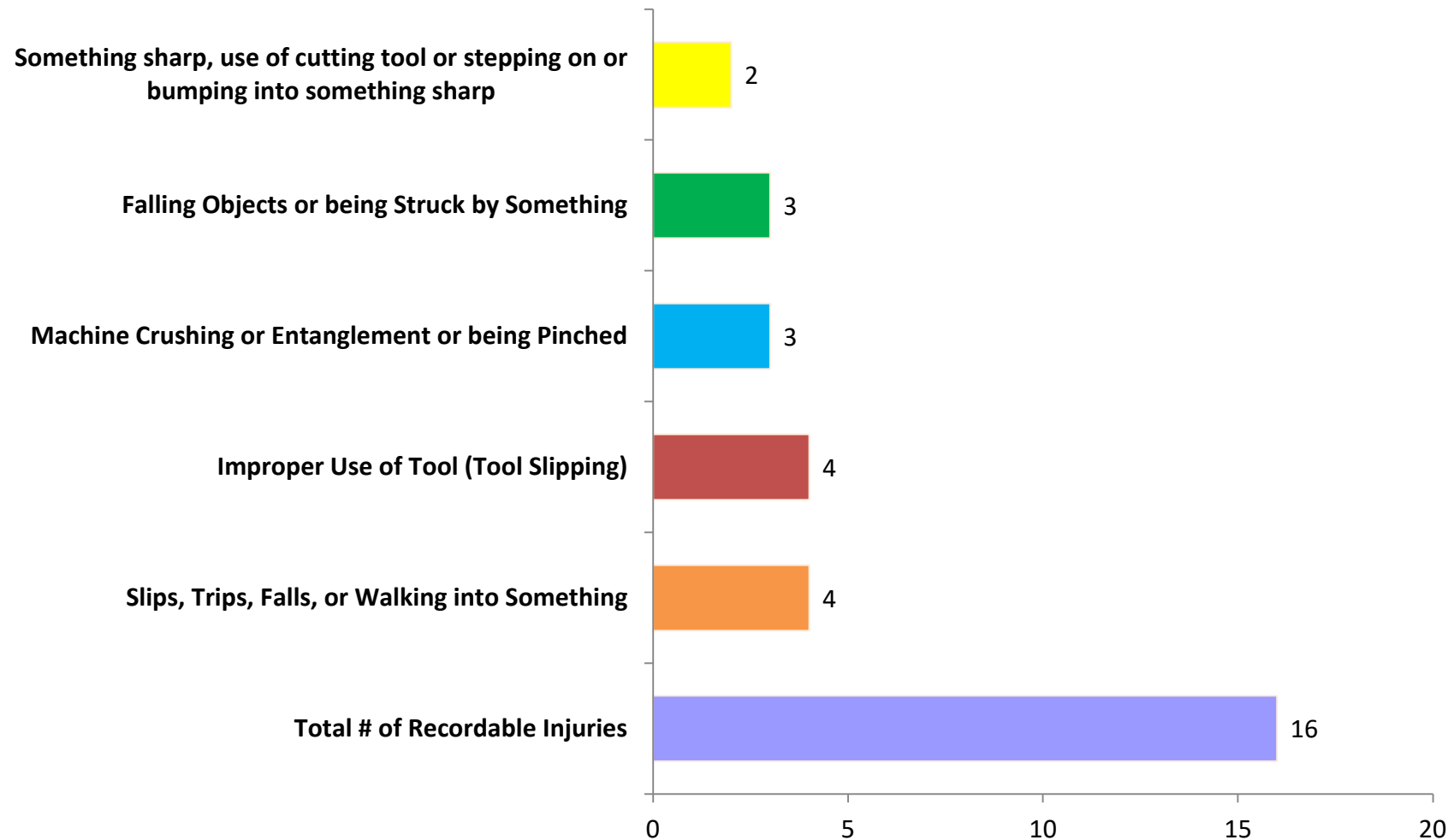
PCAC CAUSE OF THE 16 RECORDABLE INJURIES IN 2024

based on categories plants record on an OSHA 300A log

Plant Name	Total Recordable Injury Rate	Total # of Recordable Injuries	Mechanical/ Equipment Failure or Inadequate Design	Number From Process Safety Incident	Number of Process Safety Incidents in which these injuries occurred
Afton Chemical	0.00	0	0	0	0
Air Products	1.89	2	0	0	0
BASF	0.57	1	0	0	0
Chevron Pasadena Refinery	0.28	4	0	0	0
Chevron Phillips Chemical	0.13	1	0	0	0
Enterprise Products*	0.00	0	0	0	0
Ethyl	0.00	0	0	0	0
Evonik	0.00	0	0	0	0
Gulf Coast Authority	0.00	0	0	0	0
INEOS Phenol	0.00	0	0	0	0
Intercontinental Terminals	0.99	2	0	0	0
Ketjen (was Albemarle)	0.00	0	0	0	0
KM Export Terminal	0.00	0	0	0	0
KM Pasadena Terminal	0.56	2	0	0	0
LyondellBasell Houston Refinery	0.16	2	0	0	0
Next Wave Energy Partners	0.00	0	0	0	0
OxyChem Pasadena PVC	0.40	1	0	0	0
Sekisui	1.03	1	0	0	0
TOTALS:		16	0	0	0

* no contractor hours

Recordable Injuries in 2024 Resulted From:



Type of Recordable Injury in 2024

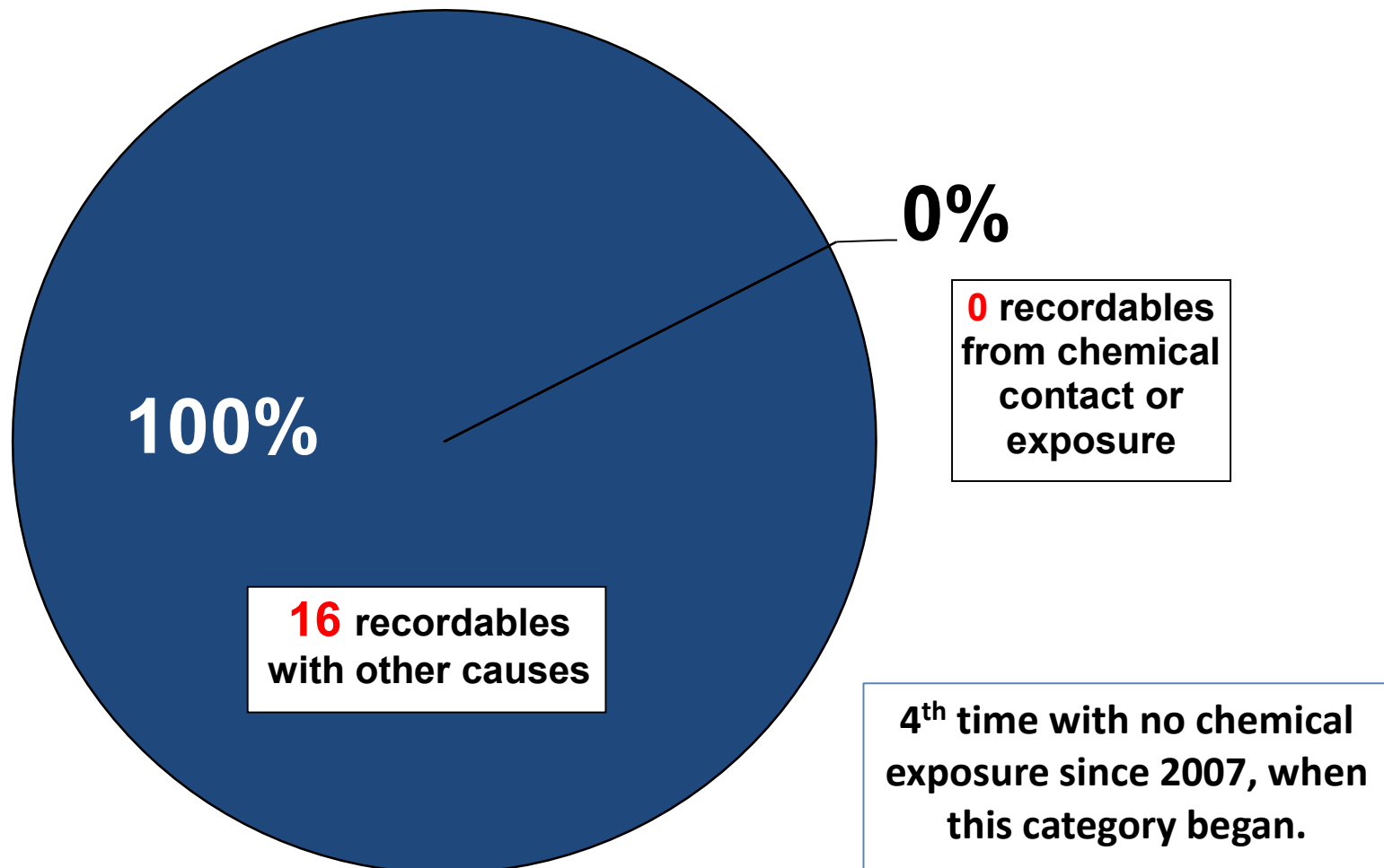
Plant Name	Total Recordable Injury Rate	Total # of Recordable Injuries	Slips, Trips, Falls, or Walking into Something	Improper Use of Tool (Tool Slipping)	Machine Crushing or Entanglement or being Pinched	Falling Objects or being Struck by Something	Something sharp, use of cutting tool or stepping on or bumping into something sharp
Afton Chemical	0.00	0	0	0	0	0	0
Air Products	1.89	2	0	1	0	0	1
BASF	0.57	1	0	1	0	0	0
Chevron Pasadena Refinery	0.28	4	1	0	2	1	0
Chevron Phillips Chemical	0.13	1	0	0	1	0	0
Enterprise Products*	0.00	0	0	0	0	0	0
Ethyl	0.00	0	0	0	0	0	0
Evonik	0.00	0	0	0	0	0	0
Gulf Coast Authority	0.00	0	0	0	0	0	0
INEOS Phenol	0.00	0	0	0	0	0	0
Intercontinental Terminals	0.99	2	1	0	0	0	1
Ketjen (was Albemarle)	0.00	0	0	0	0	0	0
KM Export Terminal	0.00	0	0	0	0	0	0
KM Pasadena Terminal	0.56	2	0	0	0	2	0
LyondellBasell Houston Refinery	0.16	2	1	1	0	0	0
Next Wave Energy Partners	0.00	0	0	0	0	0	0
OxyChem Pasadena PVC	0.40	1	0	1	0	0	0
Sekisui	1.03	1	1	0	0	0	0
TOTALS		16	4	4	3	3	2

Notes:

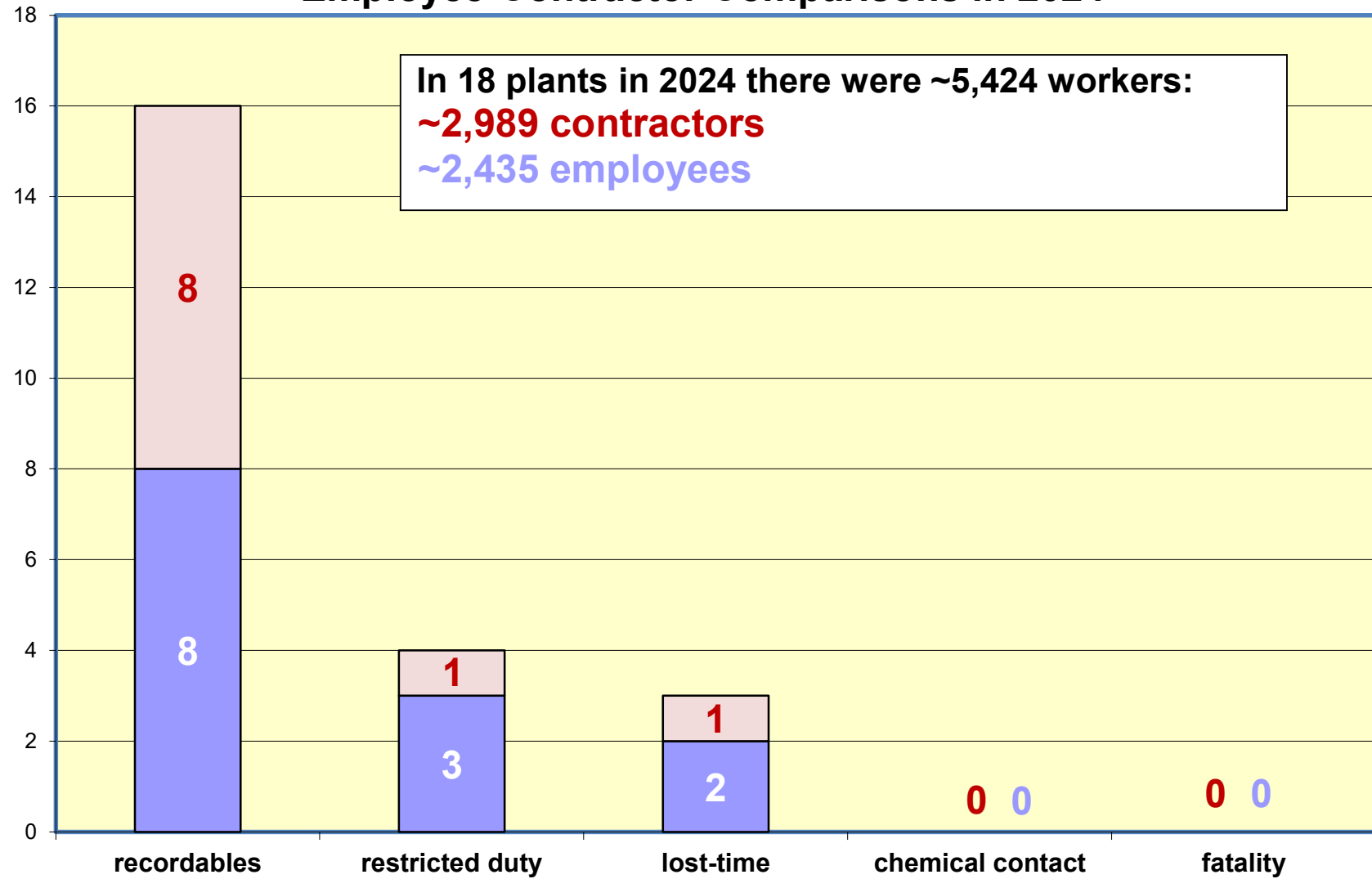
* no contractor hours

***In 2024, no recordable injuries resulted from: Chemical Exposure, Repetitive Motion, Work related vehicle accidents, Hearing Shift, Inset Bites/Stings*

Recordables from Chemical Contact or Exposure in 2024



Employee-Contractor Comparisons in 2024



PCAC EMPLOYEE-CONTRACTOR COMPARISON -- NUMBERS OF RECORDABLES for 2024

* no contractor hours

2024 employee-contractor comparison of NUMBERS of cases	Work-Hours		Total Recordables		Restricted Duty		Total Lost-Times		Severity of Lost-Time Cases						Fatalities		Chem Exposure	
	employee (empl)	contractor (contr)	empl	contr	empl	contr	empl	contr	empl less than week	contr less than week	empl 1 wk - 1 mo	contr 1 wk - 1 mo	empl more than month	contr more than month	empl	contr	empl	contr
Afton Chemical	231,873	60,830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Products	14,560	197,555	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BASF	196,007	154,895	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chevron Pasadena Refinery	751,765	2,088,695	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Chevron Phillips Chemical	716,424	840,852	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Enterprise Products*	53,060	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ethyl	14,673	8,194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Evonik	114,526	28,509	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gulf Coast Authority	59,639	13,576	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INEOS Phenol	115,058	162,384	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intercontinental Terminals	170,429	233,445	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Ketjen (was Albemarle)	391,328	261,774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KM Export Terminal	42,799	14,166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KM Pasadena Terminal	361,830	350,095	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0
LyondellBasell Houston Refinery	1,227,362	1,282,178	0	2	0	1	0	1	0	0	0	0	0	1	0	0	0	0
Next Wave Energy Partners	115,859	310,858	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OxyChem Pasadena PVC	349,078	154,439	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sekisui	138,989	54,744	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
TOTAL numbers	5,065,259	6,217,189	8	8	3	1	2	1	1	0	0	0	1	1	0	0	0	0
weighted avg. rec. rate	employee	contractor	0.32	0.26	0.12	0.03	0.08	0.03	0.04	0.00	0.00	0.00	0.04	0.03	0.00	0.00	0.00	0.00

PCAC EMPLOYEE - CONTRACTOR RECORDABLE RATES FOR 2024

* no contractor hours

2024 employee-contractor comparisons	Work-hours		Total Rate		Restricted Duty Rate		Lost-Time Rate		Fatality Rate	
	employee	contractor	empl	contr	empl	contr	empl	contr	empl	contr
Afton Chemical	231,873	60,830	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Products	14,560	197,555	0.00	2.02	0.00	0.00	0.00	0.00	0.00	0.00
BASF	196,007	154,895	0.00	1.29	0.00	0.00	0.00	0.00	0.00	0.00
Chevron Pasadena Refinery	751,765	2,088,695	0.80	0.10	0.53	0.00	0.00	0.00	0.00	0.00
Chevron Phillips Chemical	716,424	840,852	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00
Enterprise Products*	53,060	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ethyl	14,673	8,194	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Evonik	114,526	28,509	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gulf Coast Authority	59,639	13,576	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
INEOS Phenol	115,058	162,384	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Intercontinental Terminals	170,429	233,445	2.35	0.00	1.17	0.00	0.00	0.00	0.00	0.00
Ketjen (was Albemarle)	391,328	261,774	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KM Export Terminal	42,799	14,166	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KM Pasadena Terminal	361,830	350,095	0.55	0.57	0.00	0.00	0.55	0.00	0.00	0.00
LyondellBasell Houston Refinery	1,227,362	1,282,178	0.00	0.31	0.00	0.16	0.00	0.16	0.00	0.00
Next Wave Energy Partners	115,859	310,858	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OxyChem Pasadena PVC	349,078	154,439	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sekisui	138,989	54,744	1.44	0.00	0.00	0.00	1.44	0.00	0.00	0.00
TOTALS & WEIGHTED AVERAGES	5,065,259	6,217,189	0.32	0.26	0.12	0.03	0.08	0.03	0.00	0.00
Number of recordables			8	8	3	1	2	1	0	0

PCAC EMPLOYEE RECORDABLE RATES FOR 2024

13 plants with no employee recordables in 2024

2024 employee rates in ALPHABETICAL ORDER	employee work hours	employee recordable rate
Afton Chemical	231,873	0.00
Air Products	14,560	0.00
BASF	196,007	0.00
Chevron Pasadena Refinery	751,765	0.80
Chevron Phillips Chemical	716,424	0.00
Enterprise Products*	53,060	0.00
Ethyl	14,673	0.00
Evonik	114,526	0.00
Gulf Coast Authority	59,639	0.00
INEOS Phenol	115,058	0.00
Intercontinental Terminals	170,429	2.35
Ketjen (was Albemarle)	391,328	0.00
KM Export Terminal	42,799	0.00
KM Pasadena Terminal	361,830	0.55
LyondellBasell Houston Refinery	1,227,362	0.00
Next Wave Energy Partners	115,859	0.00
OxyChem Pasadena PVC	349,078	0.57
Sekisui	138,989	1.44
TOTALS & WEIGHTED AVERAGES	5,065,259	0.32

2024 employee rates in order FROM BEST TO HIGHEST RATE	employee work hours	employee recordable rate
Air Products	14,560	0.00
Ethyl	14,673	0.00
KM Export Terminal	42,799	0.00
Enterprise Products*	53,060	0.00
Gulf Coast Authority	59,639	0.00
Evonik	114,526	0.00
INEOS Phenol	115,058	0.00
Next Wave Energy Partners	115,859	0.00
BASF	196,007	0.00
Afton Chemical	231,873	0.00
Ketjen (was Albemarle)	391,328	0.00
Chevron Phillips Chemical	716,424	0.00
LyondellBasell Houston Refinery	1,227,362	0.00
KM Pasadena Terminal	361,830	0.55
OxyChem Pasadena PVC	349,078	0.57
Chevron Pasadena Refinery	751,765	0.80
Sekisui	138,989	1.44
Intercontinental Terminals	170,429	2.35
TOTALS & WEIGHTED AVERAGES	5,065,259	0.32

Number of recordables 8

Median for employees 0.00
Range for employees 0.00 to 2.35
13 plants with 0.00 for employees

* no contractor hours

PCAC CONTRACTOR RECORDABLE RATES FOR 2024

12 plants with no contractor recordables in 2024

2024 contractor rates in ALPHABETICAL ORDER	contractor work hours	contractor recordable rate
Afton Chemical	60,830	0.00
Air Products	197,555	2.02
BASF	154,895	1.29
Chevron Pasadena Refinery	2,088,695	0.10
Chevron Phillips Chemical	840,852	0.24
Enterprise Products*	0	0.00
Ethyl	8,194	0.00
Evonik	28,509	0.00
Gulf Coast Authority	13,576	0.00
INEOS Phenol	162,384	0.00
Intercontinental Terminals	233,445	0.00
Ketjen (was Albemarle)	261,774	0.00
KM Export Terminal	14,166	0.00
KM Pasadena Terminal	350,095	0.57
LyondellBasell Houston Refinery	1,282,178	0.31
Next Wave Energy Partners	310,858	0.00
OxyChem Pasadena PVC	154,439	0.00
Sekisui	54,744	0.00
TOTALS & WEIGHTED AVERAGES	6,217,189	0.26

2024 contractor rates in order FROM BEST TO HIGHEST	contractor work hours	contractor recordable rate
Enterprise Products*	0	0.00
Ethyl	8,194	0.00
Gulf Coast Authority	13,576	0.00
KM Export Terminal	14,166	0.00
Evonik	28,509	0.00
Sekisui	54,744	0.00
Afton Chemical	60,830	0.00
OxyChem Pasadena PVC	154,439	0.00
INEOS Phenol	162,384	0.00
Intercontinental Terminals	233,445	0.00
Ketjen (was Albemarle)	261,774	0.00
Next Wave Energy Partners	310,858	0.00
Chevron Pasadena Refinery	2,088,695	0.10
Chevron Phillips Chemical	840,852	0.24
LyondellBasell Houston Refinery	1,282,178	0.31
KM Pasadena Terminal	350,095	0.57
BASF	154,895	1.29
Air Products	197,555	2.02
TOTALS & WEIGHTED AVERAGES	6,217,189	0.26

Number of recordables

8

Median for contractors

0.00

Range for contractors

0.00 to 2.02

12 plants with 0.00 for contractors

* no contractor hours

Comparing Recordable Rates within OSHA's Nationwide Industry Groups

2023 NATIONAL DATA	NAICS CODE	INDUSTRY GROUP	2024 Total Plant Recordable Rate	2023 Total Plant Recordable Rate	2023 NAICS group rate
Gulf Coast Authority	2213	Water, Sewage, and Other Systems	0.00	5.46	4.50
Chevron Pasadena Refinery	324110	Petroleum Refineries	0.28	0.39	0.50
LyondellBasell Houston Refinery	324110	Petroleum Refineries	0.16	0.14	
Next Wave Energy Partners	325110	Basic Chemical Manufacturing	0.00	0.05	1.40
INEOS Phenol	325110	Basic Chemical Manufacturing	0.00	0.84	
Air Products	3251	Industrial Gas Manufacturing	1.89	0.00	1.40
Afton Chemical	325199	All Other Basic Organic Chemical Manufacturing	0.00	0.64	1.40
BASF	325199	All Other Basic Organic Chemical Manufacturing	0.57	0.80	
Ethyl	325199	All Other Basic Organic Chemical Manufacturing	0.00	0.00	
Evonik	325199	All Other Basic Organic Chemical Manufacturing	0.00	0.00	
Ketjen (was Albemarle)	325199	All Other Basic Organic Chemical Manufacturing	0.00	0.31	
Chevron Phillips Chemical	325211	Plastics Material and Resin Manufacturing	0.13	0.31	1.50
OxyChem Pasadena PVC	325211	Plastics Material and Resin Manufacturing	0.40	0.00	
Sekisui	325211	Plastics Material and Resin Manufacturing	1.03	0.00	1.40
Enterprise Products*	4247	Petroleum Products Merchant Wholesalers	0.00	0.00	
Intercontinental Terminals	49319	Other Warehousing and Storage	0.99	0.00	2.90
KM Export Terminal	493190	Other Warehousing and Storage	0.00	3.69	
KM Pasadena Terminal	493190	Other Warehousing and Storage	0.56	0.26	

After the passage of North American Free Trade Agreement (NAFTA), the North American Industry Classification System (NAICS) replaced the former Standard Industrial Code (SIC) system as a way to classify 20 major industrial sectors and the businesses within each.

Based on 2023 OSHA data, all but 2 PCAC plants performed better than those in the same industry code group in 2023 and all but 1 in 2024.

Source of OSHA data is US Bureau of Labor Statistics nonfatal workplace injuries and illnesses found at www.bls.gov

* no contractor hours

OSHA VPP Participation by PCAC Plants

PLANT NAME	2024 Total Recordable Rate	OSHA Voluntary Protection Program (VPP) since —	Working toward OSHA VPP or OSHA Challenge
Afton Chemical	0.00		
Air Products	1.89		
BASF	0.57		
Chevron Pasadena Refinery	0.28		
Chevron Phillips Chemical	0.13	2015	
Enterprise Products*	0.00		
Ethyl	0.00		
Evonik	0.00		
Gulf Coast Authority	0.00		
INEOS Phenol	0.00		
Intercontinental Terminals	0.99		VPP and Challenge Since 2017
Ketjen (was Albemarle)	0.00		
KM Export Terminal	0.00		
KM Pasadena Terminal	0.56		
LyondellBasell Houston Refinery	0.16		
Next Wave Energy Partners	0.00		
OxyChem Pasadena PVC	0.40	1991	
Sekisui	1.03		
Totals		2 VPP	1 VPP/ Challenge

3 plants in or working on OSHA VPP
or Challenge Programs

0.32 weighted avg.

15 remaining plants

0.27 weighted avg

IN LISTED PROGRAMS

	work hours	no. of recordables
Chevron Phillips Chemical	1,557,276	1
Intercontinental Terminals	403,874	2
OxyChem Pasadena PVC	503,517	1
	2,464,667	4

WEIGHTED AVERAGE

0.32

NOT IN LISTED PROGRAMS

work hours no. of recordables

Afton Chemical	292,703	0
Air Products	212,115	2
BASF	350,902	1
Chevron Pasadena Refinery	2,840,460	4
Enterprise Products*	53,060	0
Ethyl	22,867	0
Evonik	143,035	0
Gulf Coast Authority	73,215	0
INEOS Phenol	277,442	0
Ketjen (was Albemarle)	653,102	0
KM Export Terminal	56,965	0
KM Pasadena Terminal	711,925	2
LyondellBasell Houston Refinery	2,509,540	2
Next Wave Energy Partners	426,717	0
Sekisui	193,733	1
	8,817,781	12

WEIGHTED AVERAGE

0.27

* no contractor hours

PCAC ANNUAL SAFETY REPORT FOR CALENDAR YEAR 2024 -- DETAILS PLANT BY PLANT

summary charts are based on these data -- * = no contractor hours

Additional details in other worksheets

Plant details for 2024	Work hours	No. of OSHA-recordable injuries and illnesses	No. of recordables that were restricted duty cases	No. of recordables that were lost-time cases	No. of lost-times less than a week	No. of lost-times 1 week to 1 month	No. of lost-times more than a month	No. of fatalities	No. of recordables from chemical contact, exposure	Fatality Rate	Restricted Duty Rate	Lost-Time Rate	Total Recordable Rate for 2024
Afton Chemical employees	231,873	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Afton Chemical contractors	60,830	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Afton Chemical plant total	292,703	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Air Products employees	14,560	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Air Products contractors	197,555	2	0	0	0	0	0	0	0	0.00	0.00	0.00	2.02
Air Products plant total	212,115	2	0	0	0	0	0	0	0	0.00	0.00	0.00	1.89
BASF Pasadena employees	196,007	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
BASF Pasadena contractors	154,895	1	0	0	0	0	0	0	0	0.00	0.00	0.00	1.29
BASF Pasadena plant total	350,902	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.57
Chevron Pasadena Refinery employees	751,765	3	2	0	0	0	0	0	0	0.00	0.53	0.00	0.80
Chevron Pasadena Refinery contractors	2,088,695	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.10
Chevron Pasadena Refinery plant total	2,840,460	4	2	0	0	0	0	0	0	0.00	0.14	0.00	0.28
<i>Was Crown Central Petroleum, then Pasadena Refining (until 2019)</i>													
Chevron Phillips Chemical employees	716,424	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Chevron Phillips Chemical contractors	840,852	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.24
Chevron Phillips Chemical plant total	1,557,276	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.13
Enterprise Products employees	53,060	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Enterprise Products contractors*	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Enterprise Products plant total*	53,060	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Ethyl employees	14,673	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Ethyl contractors	8,194	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Ethyl plant total	22,867	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00

Plant details for 2024	Work hours	No. of OSHA-recordable injuries and illnesses	No. of recordables that were restricted duty cases	No. of recordables that were lost-time cases	No. of lost-times less than a week	No. of lost-times 1 week to 1 month	No. of lost-times more than a month	No. of fatalities	No. of recordables from chemical contact, exposure	Fatality Rate	Restricted Duty Rate	Lost-Time Rate	Total Recordable Rate for 2024
Evonik employees	114,526	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Evonik contractors	28,509	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Evonik plant total	143,035	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Joined 2017</i>													
Gulf Coast Authority employees	59,639	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Gulf Coast Authority contractors	13,576	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Gulf Coast Authority plant total	73,215	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Joined 2009</i>													
INEOS Phenol employees	115,058	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
INEOS Phenol contractors	162,384	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
INEOS Phenol plant total	277,442	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Was Georgia Gulf until 2014. Became Axiall, then became INEOS Phenol in 2015.</i>													
Intercontinental Terminals empl	170,429	2	1	0	0	0	0	0	0	0.00	1.17	0.00	2.35
Intercontinental Terminals contr	233,445	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Intercontinental Terminals total	403,874	2	1	0	0	0	0	0	0	0.00	0.50	0.00	0.99
<i>Joined 2014 when under construction</i>													
Ketjen employees	391,328	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Ketjen contractors	261,774	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Ketjen plant total	653,102	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Was Albemarle until Jan. 2024</i>													
KM Export Terminal employees	42,799	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
KM Export Terminal contractors	14,166	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
KM Export Terminal plant total	56,965	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Joined 2017</i>													
KM Pasadena Terminal employees	361,830	1	0	1	0	0	1	0	0	0.00	0.00	0.55	0.55
KM Pasadena Terminal contractors	350,095	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.57
KM Pasadena Terminal plant total	711,925	2	0	1	0	0	1	0	0	0.00	0.00	0.28	0.56
LyondellBasell Houston Refinery empl	1,227,362	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
LyondellBasell Houston Refinery contr	1,282,178	2	1	1	0	0	1	0	0	0.00	0.16	0.16	0.31
LyondellBasell Houston Refinery total	2,509,540	2	1	1	0	0	1	0	0	0.00	0.08	0.08	0.16
Next Wave Energy Partners employees	115,859	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Next Wave Energy Partners contractors	310,858	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Next Wave Energy Partners plant total	426,717	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
<i>Joined 2022 when under construction</i>													

Plant details for 2024	Work hours	No. of OSHA-recordable injuries and illnesses	No. of recordables that were restricted duty cases	No. of recordables that were lost-time cases	No. of lost-times less than a week	No. of lost-times 1 week to 1 month	No. of lost-times more than a month	No. of fatalities	No. of recordables from chemical contact, exposure	Fatality Rate	Restricted Duty Rate	Lost-Time Rate	Total Recordable Rate for 2024
OxyChem Pasadena PVC employees	349,078	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.57
OxyChem Pasadena PVC contractors	154,439	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
OxyChem Pasadena PVC plant total	503,517	1	0	0	0	0	0	0	0	0.00	0.00	0.00	0.40
<i>Name change from OxyVinyls</i>													
Sekisui employees	138,989	1	0	1	1	0	0	0	0	0.00	0.00	1.44	1.44
Sekisui contractors	54,744	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00
Sekisui plant total	193,733	1	0	1	1	0	0	0	0	0.00	0.00	1.03	1.03
<i>was Celanese Chemicals until 2009</i>													
Totals	11,282,448	16	4	3	1	0	2	0	0				

HISTORY OF PCAC TOTAL RECORDABLE RATES (TRR) 2000 - 2024

blanks mean plant was not yet built or in PCAC

Historic Plant Details	2024 TRR	2023 TRR	2022 TRR	2021 TRR	2020 TRR	2019 TRR	2018 TRR	2017 TRR	2016 TRR	2015 TRR	2014 TRR	2013 TRR	2012 TRR	2011 TRR	2010 TRR	2009 TRR	2008 TRR	2007 TRR	2006 TRR	2005 TRR	2004 TRR	2003 TRR	2002 TRR	2001 TRR	2000 TRR
Afton Chemical employees	0.00	0.80	0.00	0.76	0.00	0.00	3.08	0.00	0.00	0.00															
Afton Chemical contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00															
Afton Chemical plant total	0.00	0.64	0.00	0.52	0.00	0.00	2.63	0.00	0.00	0.00															
Was part of Ethyl. Became Afton in fall 2015.																									
Air Products employees	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.00	1.85	0.00	0.00	1.98	0.00	0.96	0.97	1.04	0.00	1.62	0.78	0.00	1.60	0.80	0.00
Air Products contractors	2.02	0.00	*	*	0.00	0.00	0.00	0.00	0.18	0.36	1.74	0.67	0.00	0.63	0.00	0.52	0.00	0.00	1.64	1.52	0.00	0.58	0.00	0.00	1.18
Air Products plant total	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.25	1.78	0.44	0.00	1.29	0.00	0.67	0.47	0.51	0.69	1.57	0.46	0.33	1.06	0.44	0.41
BASF Pasadena employees	0.00	0.00	1.34	0.00	0.00	1.19	1.07	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.99	2.05	0.00	0.00	0.71	0.00	0.00	1.99	1.68	0.87	0.00
BASF Pasadena contractors	1.29	2.03	0.00	0.00	0.00	0.00	1.92	0.00	0.00	0.00	0.00	2.46	0.00	0.00	0.00	2.04	0.00	0.00	0.80	0.00	0.00	0.00	1.94	2.84	2.68
BASF Pasadena plant total	0.57	0.80	0.59	0.00	0.00	0.74	1.37	0.27	0.00	0.00	0.00	0.68	0.00	0.00	0.70	2.04	0.00	0.00	0.77	0.00	0.00	1.17	1.76	1.33	0.62
Chevron Pasadena Refinery employees	0.80	0.55	0.53	0.79	0.24	1.02	0.78	0.00	0.51	1.21	0.84	0.00	1.90	1.90	0.51	0.47	0.74	1.84	1.33	1.53					
Chevron Pasadena Refinery contractors	0.10	0.33	0.56	0.00	0.15	0.00	0.00	0.00	0.00	0.87	0.28	0.50	0.32	0.23	0.72	0.65	0.75	1.02	1.89	2.55					
Chevron Pasadena Refinery plant total	0.28	0.39	0.54	0.45	0.18	0.48	0.42	0.00	0.25	1.00	0.56	0.26	1.18	0.77	0.62	0.58	0.75	1.31	1.73	2.09					
Was Crown Central Petroleum, then Pasadena Refining																									
Chevron Phillips Chemical employees	0.00	0.30	0.24	0.48	0.25	0.25	0.00	0.47	0.21	0.65	0.22	1.64	0.84	0.70	0.14	0.41	1.14	1.17	0.90	0.37	0.49	1.07	1.15	1.89	12.00
Chevron Phillips Chemical contractors	0.24	0.33	0.37	0.00	0.00	0.46	0.00	0.00	0.31	0.33	0.00	0.47	0.64	0.60	0.84	0.41	1.65	1.20	1.46	0.66	0.48	0.43	0.52	0.77	16.62
Chevron Phillips Chemical plant total	0.13	0.31	0.31	0.25	0.15	0.36	0.00	0.31	0.25	0.52	0.12	1.09	0.77	0.67	0.37	0.41	1.28	1.18	1.04	0.45	0.49	0.94	0.90	1.42	13.39
Enterprise Products employees	0.00	0.00	0.00	0.00	1.61	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.97	0.00	14.17							
Enterprise Products contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.14	0.57	0.00	**							
Enterprise Products plant total	0.00	0.00	0.00	0.00	1.55	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	1.24	0.00	14.17							
New in 2007. Did not track contractor hours at that time.																									
Ethyl employees	0.00	0.00	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.00	0.00	0.00	0.85	0.93	0.98	0.00	1.07	1.08	0.00	0.94	1.18
Ethyl contractors	0.00	0.00	0.00	*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	2.61	0.00	0.00	2.69	6.96	0.00		
Ethyl plant total	0.00	0.00	0.00	10.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.00	1.10	1.62	0.77	0.00	1.54	1.87	0.00	0.94	1.18
Evonik employees	0.00	0.00	2.89	0.00	0.00	0.00	0.00	3.00																	
Evonik contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00															
Evonik plant total	0.00	0.00	1.85	0.00	0.00	0.00	0.00	2.36																	
Joined in 2017																									
Gulf Coast Authority employees	0.00	6.77	0.00	3.39	3.43	0.00	0.00	0.00	0.00	0.00	3.02	3.11	6.84	0.00	0.00	3.89									
Gulf Coast Authority contractors	0.00	0.00	0.00	21.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
Gulf Coast Authority plant total	0.00	5.46	0.00	5.86	3.04	0.00	0.00	0.00	0.00	0.00	2.45	2.60	5.49	0.00	0.00	3.26									
INEOS Phenol employees	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00	2.23	0.00	0.00	4.05	0.00	0.00	2.41	0.00
INEOS Phenol contractors	0.00	1.53	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.19	0.00	0.00	0.00	0.00	0.00	2.60	1.96
INEOS Phenol plant total	0.00	0.84	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	0.00	0.00	3.12	0.00	0.00	3.08	0.00	0.00	3.28	2.10
Was Georgia Gulf until 2014. Became Axiall, then became INEOS Phenol in 2015.																									

Historic Plant Details	2024 TRR	2023 TRR	2022 TRR	2021 TRR	2020 TRR	2019 TRR	2018 TRR	2017 TRR	2016 TRR	2015 TRR	2014 TRR	2013 TRR	2012 TRR	2011 TRR	2010 TRR	2009 TRR	2008 TRR	2007 TRR	2006 TRR	2005 TRR	2004 TRR	2003 TRR	2002 TRR	2001 TRR	2000 TRR
Intercontinental Terminals empl	2.35	0.00	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00													
Intercontinental Terminals contr	0.00	0.00	0.00	0.00	0.00	0.43	0.43	0.00	0.28	0.78	0.00	0.00													
Intercontinental Terminals total	0.99	0.00	0.00	0.00	0.55	0.33	0.35	0.00	0.25	0.71	0.00	0.00													
Joined 2014 when under construction																									
Ketjen (was Albemarle) employees	0.00	0.52	0.00	0.00	0.00	0.53	0.49	0.49	0.00	0.44	0.00	0.40	0.39	0.00	1.87	0.33	0.00	0.62	0.97	0.32	0.85	0.51	0.74	1.45	0.60
Ketjen (was Albemarle) contractors	0.00	0.00	0.00	0.00	0.00	0.93	0.00	0.00	0.00	1.57	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	2.27	0.00	2.40	0.00	0.00	0.00	2.60
Ketjen (was Albemarle) total	0.00	0.31	0.00	0.00	0.00	0.67	0.31	0.30	0.00	0.85	0.00	0.29	0.53	0.00	1.35	0.27	0.00	0.56	1.14	0.28	1.01	0.47	0.68	1.34	0.75
Name change to Ketjen in Jan. 2024																									
KM Export Terminal employees	0.00	4.82	0.00	0.00	0.00	0.00	0.00	0.00																	
KM Export Terminal contractors	0.00	0.00	0.00	*	*	*	*	0.00																	
KM Export Terminal plant total	0.00	3.69	0.00	0.00	0.00	0.00	0.00	0.00																	
Joined in 2017																									
KM Pasadena Terminal employees	0.55	0.53	0.58	1.73	0.41	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.60	0.80	2.64	1.51	0.87	0.00	3.77	3.00	2.75	1.04	1.03
KM Pasadena Terminal contractors	0.57	0.00	0.56	0.00	¶	0.97	¶	0.00	0.00	0.00	0.00	0.95	*	0.00	1.02	0.00	1.28	1.12		0.91					
KM Pasadena Terminal plant total	0.56	0.26	0.57	1.37	0.41	0.62	1.24	0.00	0.00	0.00	0.00	0.30	0.56	0.00	0.75	0.71	2.18	1.25	0.87	0.00	2.47	3.00	2.75	1.04	1.03
KMPT had 2 contractor injuries in 2020 but was unable to provide contractor hours; KMPT had 2 contractor injuries in 2018 but was unable to provide contractor hours																									
LyondellBasell Houston Refinery empl	0.00	0.30	0.00	0.54	0.11	0.11	0.09	0.19	0.25	0.08	0.00	0.23	0.38	0.07	0.60	0.94	0.84	0.43	0.54	0.88	0.48	0.63	0.68	1.17	1.07
LyondellBasell Houston Refinery contr	0.31	0.00	0.00	0.18	0.09	0.17	0.04	0.05	0.09	0.13	0.42	0.13	0.19	0.43	0.43	0.55	0.80	0.47	0.40	0.64	0.23	0.57	0.58	0.79	0.64
LyondellBasell Houston Refinery total	0.16	0.14	0.00	0.32	0.09	0.15	0.06	0.09	0.14	0.11	0.24	0.16	0.26	0.30	0.49	0.74	0.81	0.46	0.44	0.73	0.37	0.60	0.63	0.98	0.86
Next Wave Energy Partners employees	0.00	0.00	0.00																						
Next Wave Energy Partners contractors	0.00	0.05	0.88																						
Next Wave Energy Partners plant total	0.00	0.05	0.85																						
Joined 2022 when under construction																									
OxyChem Pasadena PVC employees	0.57	0.00	0.61	1.89	0.00	0.63	0.66	1.46	0.00	0.00	0.00	1.32	0.00	0.00	0.66	0.66	0.65	0.00	0.67	1.41	0.00	0.68	1.31	0.66	1.29
OxyChem Pasadena PVC contractors	0.00	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	3.06	0.00	0.00	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15	1.34	0.00
OxyChem Pasadena PVC plant total	0.40	0.00	0.85	1.30	0.00	0.43	0.46	0.98	0.00	0.00	0.46	1.85	0.00	0.00	0.93	0.45	0.45	0.00	0.46	0.93	0.00	0.44	1.25	0.89	0.77
Allowed Restricted Duty Starting in 2018																									
Sekisui employees	1.44	0.00	0.00	1.72	0.00	0.00	1.83	1.84	0.00	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.25	2.44	0.00	0.00	0.00	0.00	0.00
Sekisui contractors	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.47	0.00	0.00	0.00	0.00	0.00	0.00
Sekisui plant total	1.03	0.00	0.00	1.33	0.00	0.00	1.39	2.61	0.00	1.02	1.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	1.54	0.00	0.00	0.00	0.00	0.00
was Celanese Chemicals until 2009																									
HISTORY OF SITES NO LONGER IN PCAC BUT IN TOTALS FOR EARLIER YEARS																									
Crown Central Petroleum employees																					1.93	3.84	2.71		
Crown Central Petroleum contractors																					0.00	0.00	6.77		
Crown Central Petroleum plant total																					1.82	3.64	3.39	2.78	2.70
Now Pasadena Refining System. 2000-01 have plant total rates but breakdown between employees and contractors not available.																									
Houston Products Processing empl										0.00	0.00	2.89	3.18	0.00	0.00	3.39	0.00	0.00	0.00	0.00	joined 2004				
Houston Products Processing contr *										*	*	*	*	*	*	*	0.00	*	*	0.00	0.00				
Houston Products Processing total *										0.00	0.00	2.89	3.18	0.00	0.00	3.39	0.00	0.00	0.00	0.00					
Moved operations to Baytown in 2016,																									
PCI Nitrogen employees §				-----	2.61	2.03	0.69	5.02	0.93	1.51	0.74	1.63	2.69	2.23	2.32	1.10	1.07	2.15	1.68	2.71	0.54	1.69	4.49	11.04	7.77
PCI Nitrogen contractors §				-----	0.00	3.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	1.99	0.00	0.00	0.00	0	1.19	0.00	1.55	1.47		
PCI Nitrogen plant total §				-----	2.44	2.30	0.62	4.28	0.71	1.34	0.47	0.99	1.76	2.31	2.20	0.75	0.84	1.61	1.18	2.23	0.39	1.65	3.65	11.04	7.77
§ Resigned in 2022. Did not submit data for 2021. 2001 -- used contractors but no data. 2000 -- no contractors; employees performed maintenance work. Was Agrifos, then Rentech Nitrogen. 2019: No restricted duty																									
Sun Edison employees										3.02	0.00	1.65	0.00	2.59	0.91	4.72	4.15	2.35	1.35	3.99	2.98	3.48	3.21	4.13	2.75

Historic Plant Details	2024 TRR	2023 TRR	2022 TRR	2021 TRR	2020 TRR	2019 TRR	2018 TRR	2017 TRR	2016 TRR	2015 TRR	2014 TRR	2013 TRR	2012 TRR	2011 TRR	2010 TRR	2009 TRR	2008 TRR	2007 TRR	2006 TRR	2005 TRR	2004 TRR	2003 TRR	2002 TRR	2001 TRR	2000 TRR
Sun Edison contractors										0.00	0.00	0.00	0.00	0.00	0.95	0.00	1.80	0.00	0.00	2.38	0.00	0.00	2.50		
Sun Edison plant total										2.85	0.00	1.44	0.00	2.25	0.92	3.13	3.63	2.02	1.17	3.64	2.49	3.05	3.07	4.13	2.75
Was MEMC. Demolished plant in 2016.																									