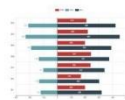
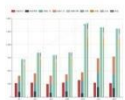
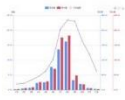
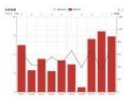




# USA Graffiti Removal Research Report





## Highlights-Cities

The Graffiti Removal market can be split based on cities of USA as follows:

- New York
- Los Angeles
- Chicago
- Houston
- Phoenix
- Philadelphia
- San Antonio
- San Diego
- Dallas
- Boston
- Washington DC

## Highlights-Organization

Organization in Graffiti Removal market are:

- Government Entities
- Private Sector



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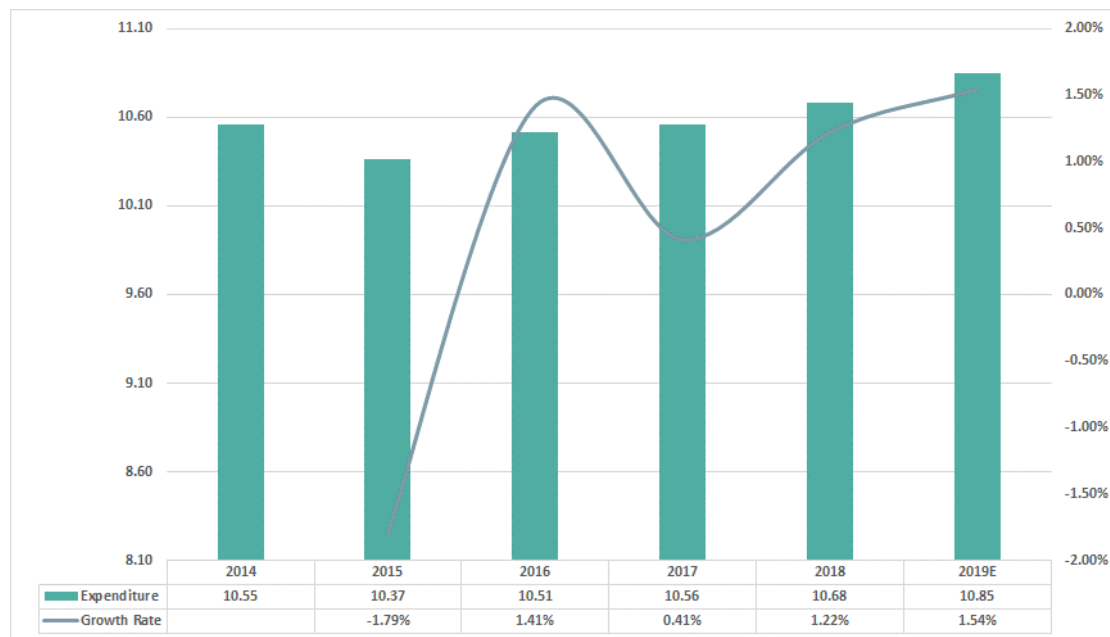
# 1 Graffiti Removal Introduction and Market Overview

## 1.1 Definition of Graffiti Removal

Graffiti Removal means to eliminate words or drawings illicitly displayed in public on walls or other surfaces by chemical or other ways.

## 1.2 USA Expenditure for Graffiti Removal and Growth Rate from 2014-2019

Figure USA Expenditure (B USD) for Graffiti Removal and Growth Rate from 2014-2019



Source: Maia Research Analysis, U.S. Department of Transportation, United States Environmental Protection Agency



### 1.3 USA Expenditure for Graffiti Removal by Organization (2014-2019)

**Table USA Expenditure (B USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	8.82	8.57	8.74	8.83	8.98	9.07
Private Sector	1.74	1.80	1.78	1.72	1.71	1.78
Total	10.55	10.37	10.51	10.56	10.68	10.85

Source: Maia Research Analysis, U.S. Department of Transportation, United States Environmental Protection Agency

**Table USA Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	83.56%	82.64%	83.11%	83.68%	84.02%	83.59%
Private Sector	16.44%	17.36%	16.89%	16.32%	15.98%	16.41%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, U.S. Department of Transportation, United States Environmental Protection Agency

### 1.4 USA Population for Graffiti Removal and Growth rate (2014-2019)

**Figure USA Population (Thousand People) (As Fulltime Employees) for Graffiti Removal and Growth rate 2014-2019**

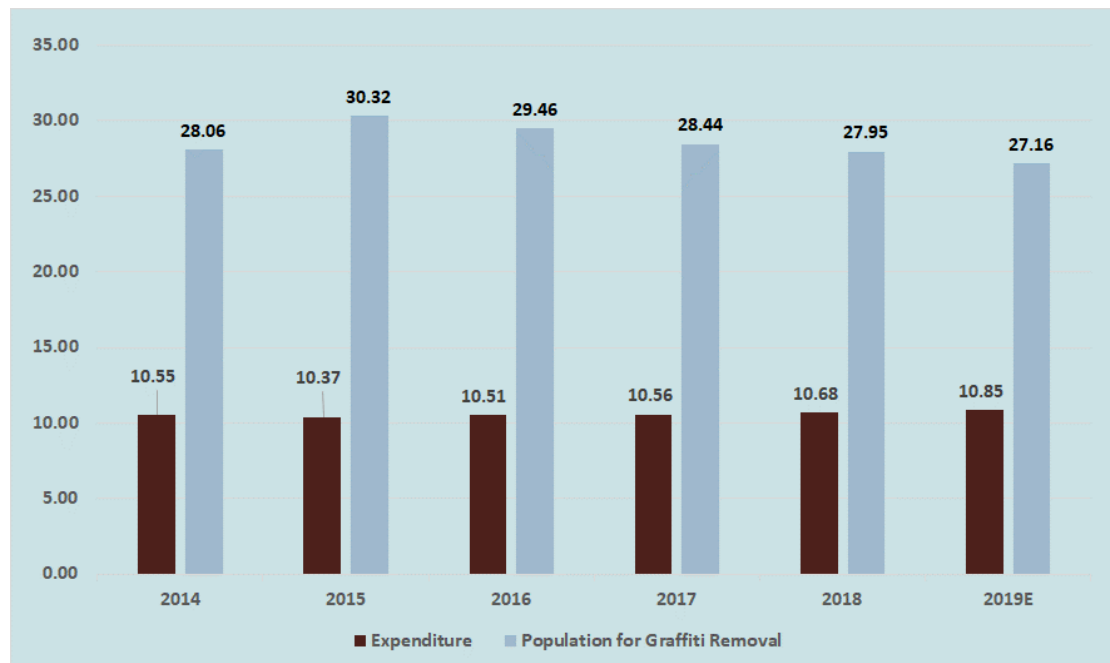




Source: Maia Research Analysis, Graffiti Man, Inc., Atlantic Power Cleaning

## 1.5 USA Comparison between Expenditure for Graffiti Removal and Population from 2014-2019

Figure USA Comparison between Expenditure for Graffiti Removal (B USD) and Population (Thousand People) (As Fulltime Employees) from 2014-2019



Source: Maia Research Analysis



## 2 USA Expenditure for Graffiti Removal by Cities (2014-2019)

### 2.1 USA Expenditure for Graffiti Removal by Cities (2014-2019)

Table USA Expenditure (M USD) for Graffiti Removal by Cities (2014-2019)

	2014	2015	2016	2017	2018	2019E
New York	284.38	285.44	293.29	294.51	299.35	296.57
Los Angeles	139.37	136.54	138.72	136.59	135.62	137.26
Chicago	89.89	87.55	87.87	91.32	89.15	90.99
Houston	79.19	78.66	76.24	77.58	76.39	75.84
Phoenix	55.88	56.64	55.97	57.13	58.18	58.62
Philadelphia	58.21	58.84	58.28	57.19	56.24	57.19
San Antonio	52.86	52.18	53.39	54.22	53.24	52.58
San Diego	49.11	48.63	47.22	47.95	48.51	48.22
Dallas	44.77	43.89	44.36	43.28	44.19	44.58
Boston	26.31	25.88	25.31	24.82	25.61	26.77
Washington DC	18.66	18.13	18.54	17.96	17.62	17.11
Others	9656.23	9473.37	9613.05	9653.13	9780.05	9942.83
Total	10554.86	10365.75	10512.24	10555.68	10684.15	10848.56

Source: Maia Research Analysis

### 2.2 USA Cities Expenditure Abatement Programs for Graffiti Removal

Table USA Cities Expenditure Abatement Programs for Graffiti Removal

Cities	Implemented by city workers or Contract it out
Austin, Texas	City workers
Denver, Colorado	City workers
Columbus, Ohio	Both city workers and contract it out
New York	Contract it out
Portland, Oregon	Both city workers and contract it out

Source: Maia Research Analysis, Graffiti Resource Council





## 2.3 USA Different Organization Expenditure for Graffiti Removal by City (2014-2019)

### 2.3.1 New York Expenditure for Graffiti Removal by Organization (2014-2019)

**Table New York Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	251.25	249.16	257.95	260.46	265.46	264.27
Private Sector	33.13	36.28	35.34	34.05	33.89	32.30
Total	284.38	285.44	293.29	294.51	299.35	296.57

Source: Maia Research Analysis, New York City Economic Development Corporation, New York State Department of Transportation

**Table New York Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	88.35%	87.29%	87.95%	88.44%	88.68%	89.11%
Private Sector	11.65%	12.71%	12.05%	11.56%	11.32%	10.89%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, New York City Economic Development Corporation, New York State Department of Transportation

### 2.3.2 Los Angeles Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Los Angeles Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	125.82	123.04	126.03	124.77	123.66	124.99
Private Sector	13.55	13.50	12.69	11.82	11.96	12.27
Total	139.37	136.54	138.72	136.59	135.62	137.26

Source: Maia Research Analysis, California Department of Transportation, City of Los Angeles Department of Public Works

**Table Los Angeles Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
--	------	------	------	------	------	-------



Government Entities	90.28%	90.11%	90.85%	91.35%	91.18%	91.06%
Private Sector	9.72%	9.89%	9.15%	8.65%	8.82%	8.94%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, California Department of Transportation, City of Los Angeles Department of Public Works

### 2.3.3 Chicago Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Chicago Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	76.83	75.21	75.85	78.30	75.80	77.70
Private Sector	13.06	12.34	12.02	13.02	13.35	13.29
Total	89.89	87.55	87.87	91.32	89.15	90.99

Source: Maia Research Analysis, Department of Streets and Sanitation, Illinois Department of Transportation

**Table Chicago Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	85.47%	85.91%	86.32%	85.74%	85.02%	85.39%
Private Sector	14.53%	14.09%	13.68%	14.26%	14.98%	14.61%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Department of Streets and Sanitation, Illinois Department of Transportation

### 2.3.4 Houston Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Houston Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	69.81	68.72	67.97	68.91	68.25	68.01
Private Sector	9.38	9.94	8.27	8.67	8.14	7.83
Total	79.19	78.66	76.24	77.58	76.39	75.84

Source: Maia Research Analysis, The Harris County Sheriff's Office, Near Northwest Management District, Houston Parks and Recreation Department, Texas Department of Transportation

**Table Houston Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	88.15%	87.36%	89.15%	88.82%	89.34%	89.68%



Private Sector	11.85%	12.64%	10.85%	11.18%	10.66%	10.32%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, The Harris County Sheriff's Office, Near Northwest Management District, Houston Parks and Recreation Department, Texas Department of Transportation

### 2.3.5 Phoenix Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Phoenix Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	48.19	48.41	48.07	49.14	49.85	50.63
Private Sector	7.69	8.23	7.90	7.99	8.33	7.99
Total	55.88	56.64	55.97	57.13	58.18	58.62

Source: Maia Research Analysis, Arizona Department of Transportation, The Neighborhood Services Department of Phoenix

**Table Phoenix Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	86.23%	85.47%	85.88%	86.01%	85.69%	86.37%
Private Sector	13.77%	14.53%	14.12%	13.99%	14.31%	13.63%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Arizona Department of Transportation, The Neighborhood Services Department of Phoenix

### 2.3.6 Philadelphia Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Philadelphia Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	48.66	49.20	48.50	47.95	47.44	48.34
Private Sector	9.55	9.64	9.78	9.24	8.80	8.85
Total	58.21	58.84	58.28	57.19	56.24	57.19

Source: Maia Research Analysis, Pennsylvania Department of Transportation, Philadelphia Anti-Graffiti Network

**Table Philadelphia Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
--	------	------	------	------	------	-------



Government Entities	83.59%	83.61%	83.22%	83.84%	84.35%	84.52%
Private Sector	16.41%	16.39%	16.78%	16.16%	15.65%	15.48%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Pennsylvania Department of Transportation, Philadelphia Anti-Graffiti Network

### 2.3.7 San Antonio Expenditure for Graffiti Removal by Organization (2014-2019)

**Table San Antonio Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	45.26	44.46	45.88	46.81	46.07	45.28
Private Sector	7.60	7.72	7.51	7.41	7.17	7.30
Total	52.86	52.18	53.39	54.22	53.24	52.58

Source: Maia Research Analysis, Texas Department of Transportation, Building & Equipment Services Department, Public Works/Transportation & Capital Improvements, Downtown Operations Department, Parks & Recreation Department

**Table San Antonio Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	85.62%	85.21%	85.94%	86.33%	86.54%	86.11%
Private Sector	14.38%	14.79%	14.06%	13.67%	13.46%	13.89%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Texas Department of Transportation, Building & Equipment Services Department, Public Works/Transportation & Capital Improvements, Downtown Operations Department, Parks & Recreation Department

### 2.3.8 San Diego Expenditure for Graffiti Removal by Organization (2014-2019)

**Table San Diego Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	42.98	42.37	41.22	42.04	42.49	42.39
Private Sector	6.13	6.26	6.00	5.91	6.02	5.83
Total	49.11	48.63	47.22	47.95	48.51	48.22

Source: Maia Research Analysis, California Department of Transportation, Metropolitan Transit



System

**Table San Diego Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	87.51%	87.12%	87.29%	87.68%	87.59%	87.91%
Private Sector	12.49%	12.88%	12.71%	12.32%	12.41%	12.09%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, California Department of Transportation, Metropolitan Transit System

### 2.3.9 Dallas Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Dallas Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	38.75	37.89	38.23	37.47	38.42	38.79
Private Sector	6.02	6.00	6.13	5.81	5.77	5.79
Total	44.77	43.89	44.36	43.28	44.19	44.58

Source: Maia Research Analysis, Texas Department of Transportation, Department of Code Compliance

**Table Dallas Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	86.56%	86.33%	86.19%	86.57%	86.94%	87.01%
Private Sector	13.44%	13.67%	13.81%	13.43%	13.06%	12.99%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Texas Department of Transportation, Department of Code Compliance

### 2.3.10 Boston Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Boston Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	23.40	22.93	22.47	22.14	22.83	23.83
Private Sector	2.91	2.95	2.84	2.68	2.78	2.94
Total	26.31	25.88	25.31	24.82	25.61	26.77

Source: Maia Research Analysis, Massachusetts Department of Transportation



**Table Boston Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	88.95%	88.62%	88.77%	89.22%	89.16%	89.03%
Private Sector	11.05%	11.38%	11.23%	10.78%	10.84%	10.97%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, Massachusetts Department of Transportation

### 2.3.11 Washington DC Expenditure for Graffiti Removal by Organization (2014-2019)

**Table Washington DC Expenditure (M USD) for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	17.48	17.00	17.36	16.86	16.57	16.11
Private Sector	1.18	1.13	1.18	1.10	1.05	1.00
Total	18.66	18.13	18.54	17.96	17.62	17.11

Source: Maia Research Analysis, District of Columbia Government's Department of Transportation, Department of Public Works

**Table Washington DC Expenditure Share for Graffiti Removal by Organization (2014-2019)**

	2014	2015	2016	2017	2018	2019E
Government Entities	93.65%	93.74%	93.62%	93.88%	94.05%	94.17%
Private Sector	6.35%	6.26%	6.38%	6.12%	5.95%	5.83%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Maia Research Analysis, District of Columbia Government's Department of Transportation, Department of Public Works