

2016 Equipment Theft Report



An Alliance with a Purpose

Through a joint alliance, the National Equipment Register (NER) and the National Insurance Crime Bureau (NICB) continue to make positive strides in deterring crime by equipment thieves. By combining services and areas of expertise, we're providing an efficient conduit for law enforcement and insurers to identify any type of heavy equipment at any time of day and help contractors reduce the likelihood of unknowingly purchasing stolen equipment.

Our alliance ensures that NER will continue to provide, manage, and expand its database of insurer-supplied theft reports and information about manufacturers, owners, and damaged equipment. The NICB will extend the reach and value of that information through its nationwide network of special agents, who are trained in heavy equipment theft and available to respond to law enforcement calls for investigative assistance or identification requests.

Better ownership documentation, accurate equipment identification, proper reporting, greater site security, and an overall better understanding of the threat will continue to increase the ability of law enforcement to combat equipment theft. Awareness, education, and training are key components of an overall fraud prevention plan that may lead to immediate economic benefits for contractors, owners, and insurers.

Through our collaborative efforts, we're reducing the cost of theft for equipment owners and insurers by increasing the likelihood of recovery and arrest. We're also increasing awareness of the theft issue and promoting knowledge sharing, thus making heavy equipment a riskier target for thieves.



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Overview

The National Equipment Register (NER) and National Insurance Crime Bureau (NICB) annual report on equipment theft in the United States is based primarily on data the NICB drew from the National Crime Information Center's (NCIC) database of more than 10,000 construction and farm equipment thefts in 2016 and information reported to ISO ClaimSearch®. We'll continue to publish similar reports every year to help track trends using the growing volume of data available to NER and the NICB.

Aim

Our study provides equipment owners, insurance companies, and law enforcement with information to guide theft prevention efforts and allocate investigative resources. The study puts the information into context through notes, analyses, and conclusions that relate to the protection, investigation, and recovery of heavy equipment.

As in the past, the 2016 report seeks to answer key questions: Who steals heavy equipment, and how do they do it? How much and what types of equipment do they steal? Where do they steal equipment from, and where does it go?

Data Sources

The NICB has access to all the data in the NCIC vehicle theft file, and it maintains a mirror image of that file. The FBI; other federal, state, local, and foreign criminal justice agencies; and authorized courts submit data on stolen vehicles, stolen vehicle parts, and mobile off-road equipment and components. The NICB uses the data to assist insurance companies in recovering stolen vehicles and mobile off-road equipment.

Since 2001, NER has developed databases of heavy equipment ownership and theft information. Owners and law enforcement agencies report thefts directly to NER's database through its website. Insurers report thefts through ISO ClaimSearch, the insurance industry's all-claims database. Through an alliance with the American Rental Association (ARA), NER can capture loss and ownership data from many of the world's largest rental fleets and hundreds of smaller fleets.

Although statistics can't reveal all underlying reasons for the high level of equipment theft, we can draw conclusions from trends and the daily contact that NER staff members have with theft victims, insurers, and law enforcement.

Presentation and Analysis

We've presented each set of data in graphs or tables to allow easy comparison and to highlight trends. Notes explain data sources and gathering techniques. Analyses discuss the relative importance of factors that affect each set of results. We provide additional commentary where results suggest a particular action or response.



T H E F T S T A T I S T I C S



Theft by State

Top ten states for equipment theft in 2016

Rank	State	Thefts
1	Texas	2,375
2	North Carolina	796
3	Florida	763
4	California	694
5	Georgia	577
6	South Carolina	512
7	Tennessee	449
8	Oklahoma	445
9	Arkansas	362
10	Alabama	338

NOTES

1. Although equipment thefts occurred in every state, the top five states accounted for 45% of the total number of thefts in 2016. In 2015, the top five states accounted for 44%.
2. The table represents 7,311 of the 11,574 equipment theft reports captured by NCIC during 2016.

The top **5 states** account for **45%** of all thefts.

The top **10 states** account for **63%** of all thefts.

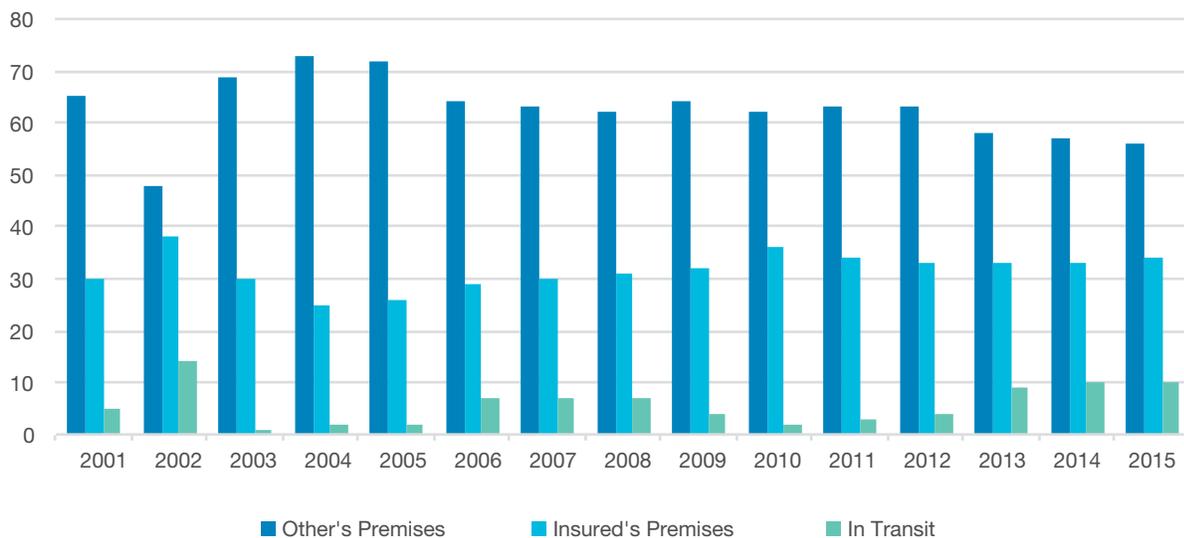
ANALYSIS

1. Theft levels closely correspond to the amount of equipment in a particular area. In other words, the states with the highest volume of construction and agriculture—and therefore the most machinery—have the largest number of thefts.
2. Organized theft rings are likely to develop in areas with a high concentration of equipment and a large number of potential buyers of used equipment, stolen or otherwise. Higher loss ratios for insurers in certain areas reflect that development.
3. Nine of the top ten states for equipment theft in 2016 are the same states that made the top ten equipment theft list in 2015. In 2016, Alabama was added to the top ten; Indiana, previously ranked ninth, no longer made the list. Other states remained in similar positions in the ranking year over year.

COMMENT

Sometimes theft hot spots occur when an area is experiencing an industrial boom. The influx of construction work correlates with higher numbers of heavy equipment in the area—which attracts attention from thieves and increases the risk of theft. NER's regional theft alerts highlight such activity. When equipment owners are aware of these prime conditions for theft and know how to thwart equipment thieves, there is often a noticeable drop in theft rates.

Theft by Type of Location



NOTES

1. The graph shows insured losses by type of location of the theft.
2. Losses by type of location of theft are displayed as a percentage of all claims.
3. Source is ISO's Inland Marine Circular, Contractors Equipment, All Classes.

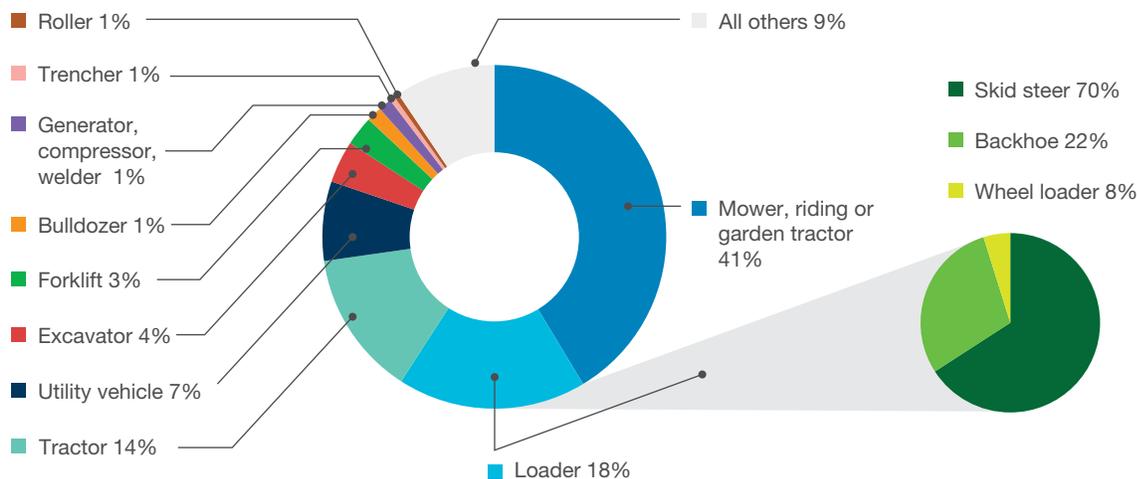
ANALYSIS

With regard to theft by type of location, two factors should be considered: the location where the equipment spends the most time and the level of security at each type of location. Most often, equipment is on a work site, labeled on the graph as “Other’s Premises.” Those work sites usually have lower levels of physical security than an “Insured’s Premises,” which is often a fenced-in compound.

COMMENT

It is not enough to focus solely on the security of premises and work sites. Equipment users should also secure the machines by disabling them using hydraulic cylinder locks or ignition or hydraulic system lockouts or simply by removing battery cables. Owners and users should also stage pieces of equipment to prevent them from being dragged onto a transport. Finally, equipment should also never be left on trailers.

Types of Equipment Stolen



NOTES

1. The chart represents 11,574 theft reports submitted to NCIC in 2016.
2. The inclusion of landscaping equipment—mainly commercial riding mowers—reduces the percentage of all other categories.
3. The top five types of equipment account for 84% of all losses. The top five also represented 84% of all thefts in 2015.
4. “Tractor” is a broad category, including compact, utility, and agricultural tractors.
5. More than 50 types of equipment make up the “All others” category. They include but are not limited to graders, scrapers, wood chippers, trenchers, and miscellaneous farming equipment.

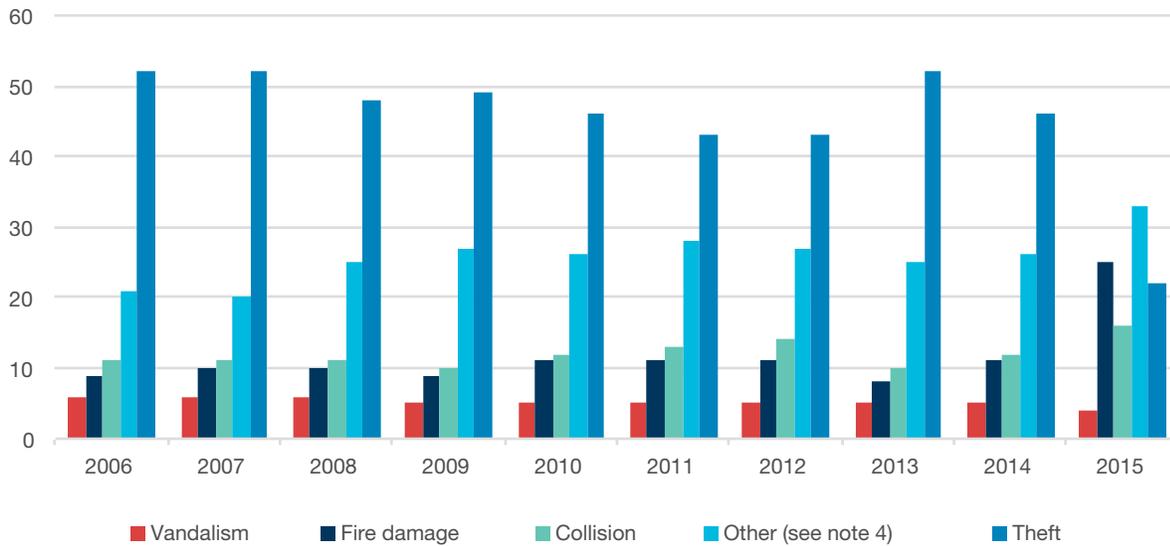
ANALYSIS

1. Two key factors determine the type of equipment that thieves are most likely to steal: value and mobility. Value is the primary factor, except for items too large to move on a small trailer. For instance, large excavators are valuable but seldom stolen because they are difficult to move.
2. Another factor to consider is the number of each type of equipment in circulation. For example, skid steer loaders account for more than 36% of new construction equipment financed in the United States in the last five years.
3. Dozers and wheel loaders are the most valuable types of equipment in the top ten, but backhoes and skid steers are easier to transport and perform multiple functions on job sites; therefore, the latter group represents a greater percentage of thefts.
4. The types of high-value equipment reported stolen frequently are wheeled machines, such as wheel loaders.

COMMENT

Equipment owners should consider mobility of equipment as well as value when planning security efforts.

Frequency of Theft Compared with Other Risks



NOTES

1. Frequency of risk is displayed as a percentage of all claims.
2. Source is ISO's Inland Marine Circular, Contractors Equipment, All Classes.
3. We base the figures on frequency, not value. Theft still tops the list by value, although by a smaller margin.
4. "Other" includes claims involving windstorm, hail, water damage, flood, volcanic action, and earthquake.

COMMENT

For the first time in the history of this published report theft does not account for the highest number of losses when compared with other risks. Review of subsequent reports to come will help determine if this was an anomaly or a developing trend as the theft rate has remained relatively consistent over the prior 10 years.. While equipment owners can reduce the likelihood of theft and improve the chances of recovery by taking simple preventive steps that are both cost-effective and measurable the dramatic decrease in theft incidents in this year's report needs to be compared to upcoming years to determine if training and educa-

tion associated with equipment theft has started to make a bigger impact.

Theft by Manufacturer

Rank	Manufacturer	Thefts
1	 JOHN DEERE	2,420
2		1,315
3		882
4		773
5		368
6		349
7		277
8		235
9		218
10		203

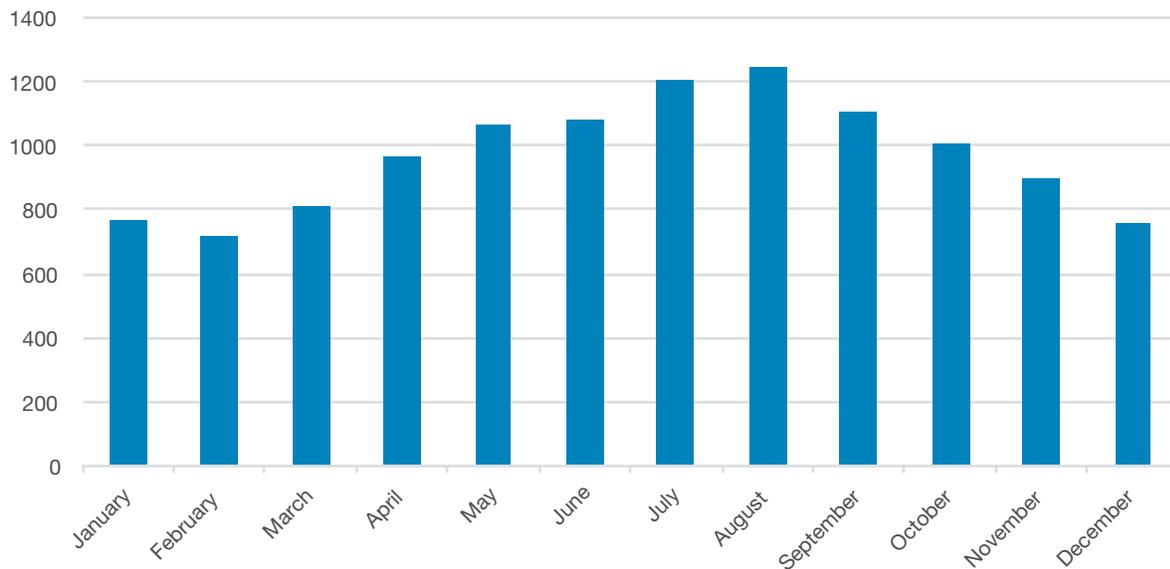
ANALYSIS

1. While all makes of off-road equipment have little or no standard equipment security, the manufacturers on the list at left make the most compact and, thus, most easily stolen equipment. The list does not necessarily follow the entire market share of all heavy equipment manufactured.
2. If two pieces of equipment are equally easy to steal, a thief is more likely to steal the machine of greater value. Age, condition, and brand determine a machine's perceived value.

NOTES

1. Source is the total number of thefts reported to NCIC during 2016.

Theft by Month



NOTES

1. The graph illustrates equipment losses by the month the theft was reported.

ANALYSIS

Theft levels closely correspond with peak construction periods. In other words, the months with the highest volume of theft are the ones that have increased equipment activity due to cooperative weather, longer days, and the end of a crop growth cycle. As equipment owners move items between job sites and fields, there are greater risks, exposures, and opportunities for theft. There is an additional likelihood that thefts may go unnoticed for a longer period of time than when equipment is stolen from an owner's yard.

Model Year of Equipment Stolen

The table lists the top ten years of manufacture for machines stolen in 2016:

Year	Amount
2016	1,987
2015	1,613
2014	1,015
2013	846
2012	700
2011	496
2010	496
2008	420
2007	432
2006	444

NOTES

1. Source is the total number of thefts reported to NCIC during 2016.
2. Each piece of equipment manufactured in 2016 faced potential theft for only part of the year—from the date sold to December 31.
3. Results may be slightly skewed because owners often misstate the date of manufacture. For example, a buyer may list a 2015 model purchased in 2016 as a 2016 model.

Equipment produced in the last ten years accounted for

75%

of thefts reported to NCIC in 2016.

Of the thefts reported in 2016, **56%** were machines manufactured in the last five years.

ANALYSIS

The newer a piece of equipment, the more likely it is that someone will steal it. If given the choice between two similar machines a thief will choose the newer, more valuable machine because they are equally easy to steal. Those results are in stark contrast to larger trends in automobile theft, where older models account for more stolen cars. Newer cars carry more sophisticated antitheft technology. Heavy equipment design, however, emphasizes productivity instead of security. The necessity for multiple operators leads to little or no antitheft technology. Many heavy equipment manufacturers installed as few security features on 2016 models as they did on 1990 models.

Top Ten Cities for Equipment Theft

Rank	City	State	Count
1	Houston	TX	287
2	San Antonio	TX	94
3	Conroe	TX	92
4	Miami	FL	82
5	Dallas	TX	81
6	Oklahoma City	OK	69
7	Fort Worth	TX	60
8	Tampa	FL	58
9	Orlando	FL	56
10	Liberty City	TX	55

NOTES

1. Source is the total number of thefts reported to NCIC during 2016.
2. All of the top ten cities are in the top ten states for theft.
3. Fort Worth, Tampa, and Orlando are all new to this list. It should be noted that Fort Worth is a city in north central Texas, the number-one-ranked state for theft in 2016.

ANALYSIS

It is not surprising that cities with the greatest number of thefts are often located in states that rank among the top ten for theft. The cities tend to be in states that are near the southern border, have a major port, are experiencing construction booms, or possess all of these characteristics.

Theft by Census Population

Rank	Core-Based Statistical Area (CBSA)	2016 Thefts	2013 Population Estimate	Heavy Equipment Theft Rate per 10,000 Inhabitants
1	Palestine, TX	49	57,938	8.46
2	Williston, ND	16	29,595	5.41
3	Athens, TN	25	52,341	4.78
4	Laurinburg, NC	17	36,025	4.72
5	Tifton, GA	18	40,286	4.47
6	Athens, TX	33	78,675	4.19
7	Corsicana, TX	19	48,038	3.96
8	Helena, AR	7	20,399	3.43
9	Douglas, GA	14	43,220	3.24
10	Emporia, KS	10	33,510	2.98

NOTES

1. Sources are the total number of thefts reported to NCIC during 2016 and the 2013 U.S. Census report.
2. The term "Core-Based Statistical Area" (CBSA) is a collective term for both metro and micro areas. A metro area contains a core urban area population of 50,000 or greater, and a micro area contains a core urban population of at least 10,000 but less than 50,000. Each metro or micro area consists of one or more counties and includes the counties containing the core urban area, as well as any adjacent counties that have a high degree of social and economic integration (as measured by commuting to work) with the urban core.

ANALYSIS

It is not surprising to see Texas, Oklahoma, and North Carolina in the top ten list for theft rates in a given CBSA since they are also on the list of top ten states for thefts for 2016. What is surprising is that none of the regions in the top ten have a population greater than 100,000. Although the population is small in these regions, more thefts occur per person than in the larger metropolitan areas.

The relatively high rate of theft by population in these regions indicates that equipment owners should not be lax with security, no matter how remote or loosely populated an area may be. In fact, the data suggests

that equipment owners and dealers should be more concerned about equipment theft in regions with smaller populations.

The Cost of Equipment Theft

At present, there is no centralized, accurate, or exhaustive database that includes every loss. NER examines detailed theft reports from a specific area that accurately reports theft—such as a fleet, industry, or region—to make assumptions and develop trends. Then we apply those trends to the entire market share of that specific area to build a national figure.

Annual estimates of the cost of equipment theft vary from about **\$300 million** to **\$1 billion**, with most estimates in the range of

\$400 million.

NOTES

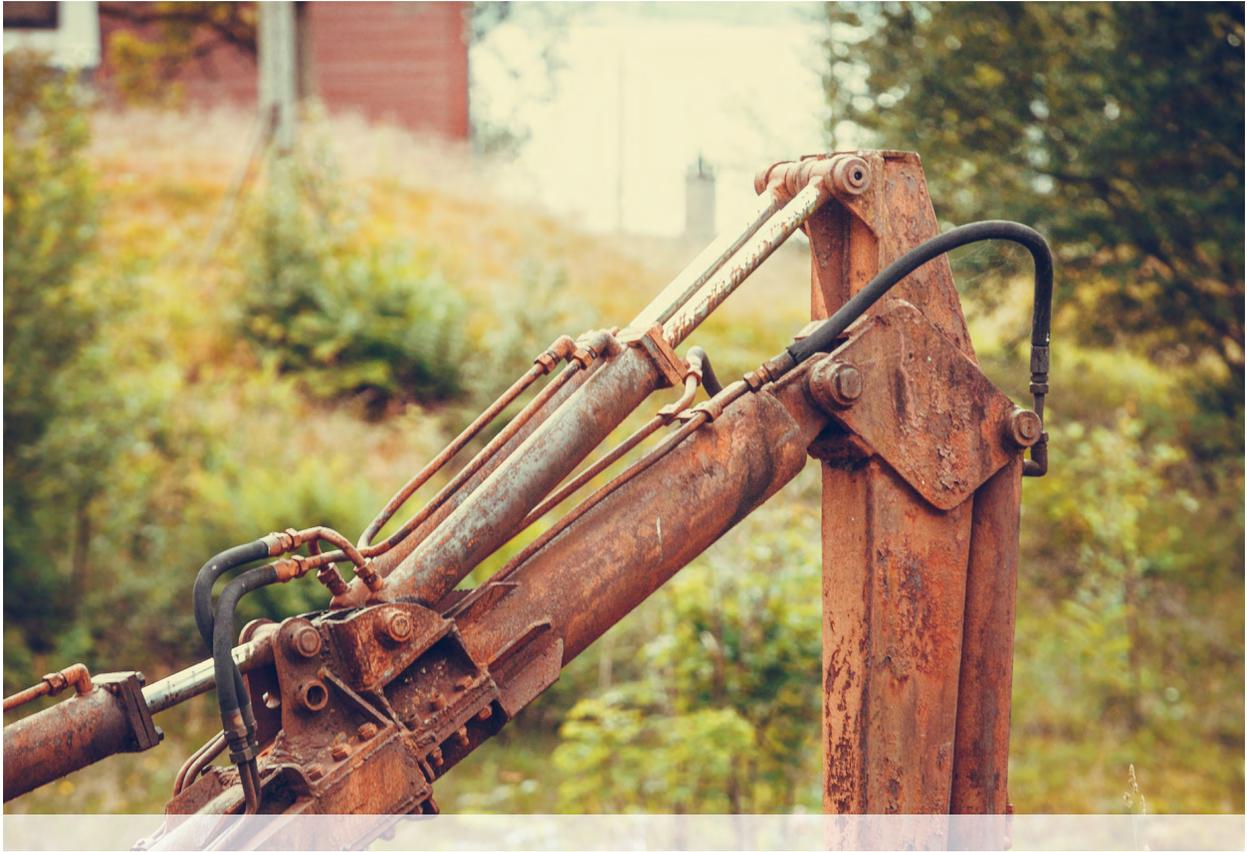
1. The estimates do not include the theft of tools or building materials or damage to equipment and premises caused during a theft.
2. The estimates do not include losses from business interruption. Those losses include the cost of rentals, project-delay penalties, and wasted workforce and management time.

ANALYSIS

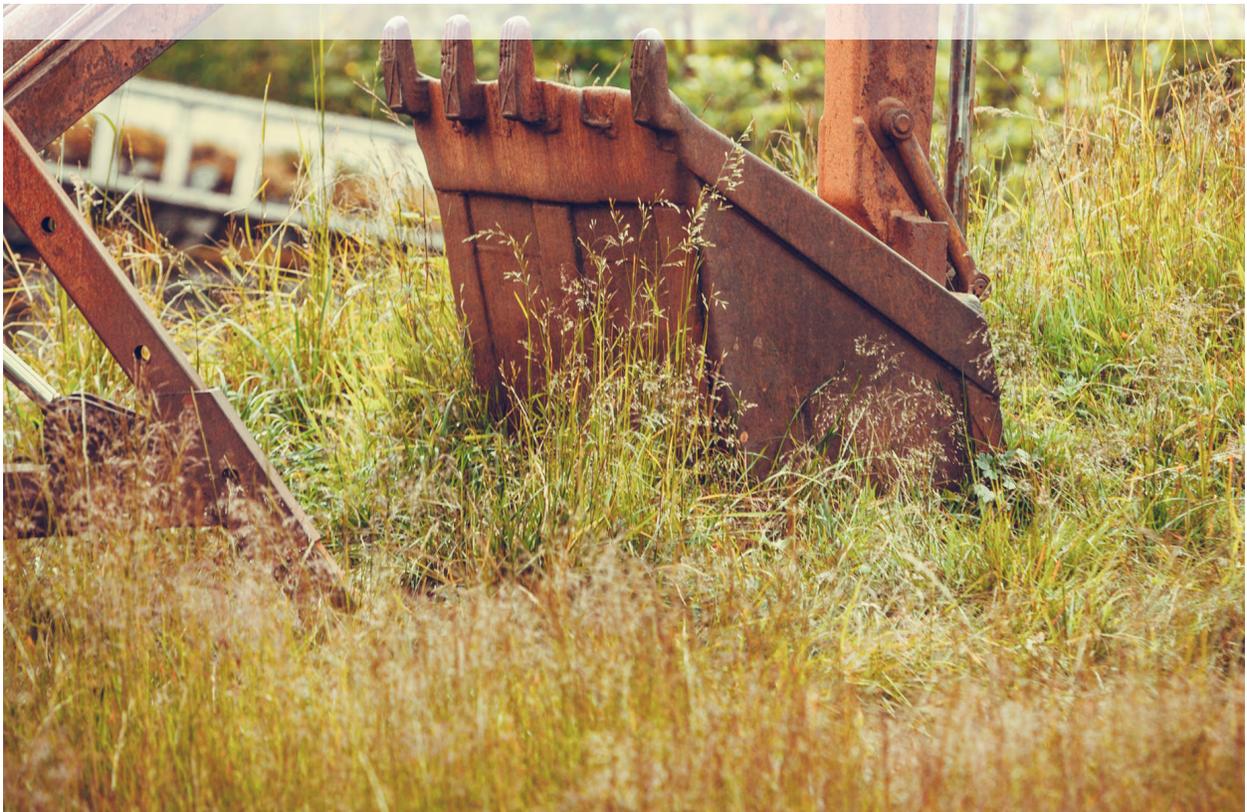
Several factors contribute to the high level of equipment theft:

- the value of heavy equipment*
- poor equipment and site security
- opportunities to sell stolen equipment in the used-equipment market
- low risk of detection and arrest
- lenient penalties for thieves if prosecuted and convicted

*The average estimated value of a stolen piece of equipment is \$29,258.



R E C O V E R Y S T A T I S T I C S



Recovery Rates

Low recovery rates make it difficult to draw concrete conclusions from recovery statistics alone. By including information from investigations, such as those in the Case Studies section, we can gain an idea of how equipment is stolen, where it goes, and who steals it. The NICB compiled 11,574 reports of stolen machines in 2016. Conversely, in 2016, the NICB reported 2,442 recoveries of equipment listed in the NCIC active theft file. The file includes all active thefts recovered in 2016.

Only
21%
of stolen equipment
was recovered in
2016.

NOTES

1. Of the 11,574 reported equipment thefts in 2016, NCIC reported 2,442 recoveries.
2. The recovery rate does not reflect pieces of equipment that law enforcement recovered but did not mark as recovered.
3. The recovery rate does not reflect unreported thefts.

ANALYSIS

A number of factors contribute to the low recovery rate of stolen equipment:

- delays in discovery of thefts and subsequent delays between time of the occurrence and reporting
- equipment owners' inaccurate or nonexistent ownership records
- complex and often ambiguous equipment identification number formats
- lack of prepurchase screening of used equipment
- limited law enforcement resources dedicated to equipment investigations
- limited, possibly inaccurate equipment information in law enforcement systems
- police reporting and search errors, and misunderstanding of correct equipment theft reporting practices
- NCIC equipment information reporting errors in which equipment is erroneously added to the "article file" rather than the "vehicle file"

COMMENT

When it comes to improving theft recoveries, the area that needs the most improvement is also the area that promises immediate results: making accurate information available to law enforcement 24 hours a day through NER and the NICB. At a minimum, equipment owners should keep accurate lists of equipment with PIN/serial numbers and submit them to law enforcement, their insurers, and NER as soon they discover a theft. When they purchase equipment, owners should register serial numbers in the NER database so that the information is available to law enforcement 24 hours a day. In the event of a theft, law enforcement can identify the equipment even during weekends or at night.

Recovery by State

Top ten states for equipment recovery

Rank	State	Recoveries
1	Texas	372
2	California	340
3	Florida	150
4	Georgia	99
5	North Carolina	96
6	Oklahoma	95
7	Arkansas	92
8	South Carolina	80
9	Indiana	74
10	Kentucky	71

The top ten states account for
60%
of recoveries.

NOTES

1. In 2016, law enforcement recovered most machines in the same state where they were stolen.
2. The bigger the state and the more demand for equipment within that state, the lower the chance that the equipment will leave the state.
3. If thieves do not sell equipment quickly in the local vicinity, there is a greater chance they will move equipment out of state, especially as more time passes since the date of the theft.
4. Law enforcement is less likely to recover equipment when thieves move it far away, especially out of state. Therefore, more stolen equipment may be moving out of state.

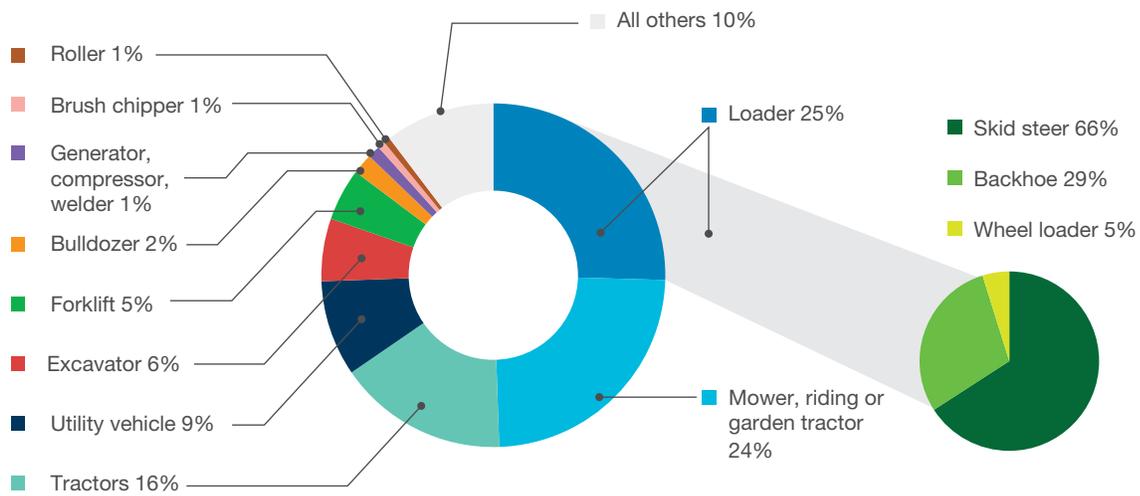
ANALYSIS

1. A low level of surveillance in the used-equipment market bolsters thieves' confidence in committing crimes. They feel safe selling equipment in neighboring states—or even as close as neighboring counties.
2. Recoveries made at ports and borders prove that thieves do export stolen equipment; however, selling stolen equipment within the United States is easier and cheaper. The cost of export is worthwhile only when thieves can raise prices abroad or when they steal equipment close to a border.

COMMENT

In the fight against equipment theft, it is important to act both locally (for example, by circulating theft reports) and nationally (for example, by submitting data to national databases).

Types of Equipment Recovered



NOTES

1. The "Loader" category includes all subclasses: front-end, tracked, wheeled, skid steer, and backhoe.
2. The "Excavator" category includes both full-size and compact or mini-excavators.

ANALYSIS

The types of equipment recovered most are usually the types of equipment stolen most. The gap between theft and recovery narrows as NICB training encourages law enforcement to look more closely at the machines stolen most frequently.

Recovery by Manufacturer

Rank	Manufacturer	Recoveries
1	 JOHN DEERE	526
2		261
3		247
4		244
5		88
6		43
7		38
8		36
9		33
10		31

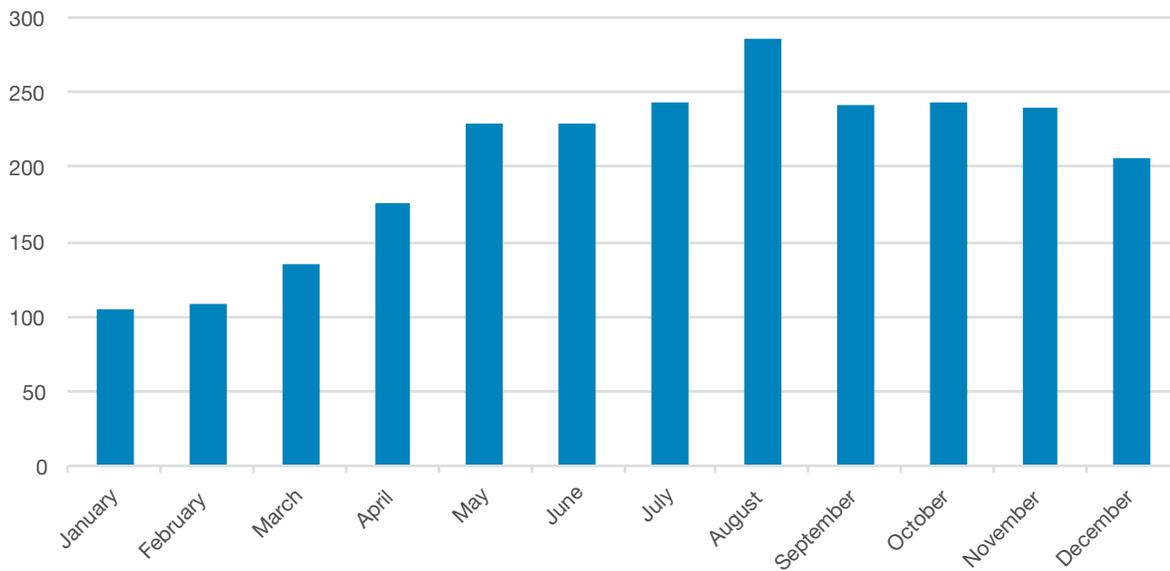
ANALYSIS

The top five manufacturers account for 56% of all recoveries. The make of recovered equipment closely mirrors the make of stolen equipment.

NOTES

1. Source is the total number of recoveries of equipment stolen in 2016.

Recovery by Month



NOTES

1. Source is the total number of recoveries of equipment stolen in 2016.

ANALYSIS

As the busy construction and farming seasons slow down and jobs near completion, job sites become safer and more accessible to law enforcement. Larger equipment is generally idle at this point, and even smaller units begin to sit for longer periods as finishing work is done. It is not uncommon for contractors using stolen equipment to abandon or leave it behind at the end of a job because maintenance and storage may be more costly than stealing a new machine next year.

Model Year of Equipment Recovered

Year	Recoveries
2016	365
2015	322
2014	208
2013	189
2012	153
2011	111
2007	102
2010	95
2006	95
2005	89

ANALYSIS

Newer equipment draws more attention from both law enforcement and thieves. It is not uncommon for older equipment to sit unused in lots or yards, but newer equipment is more likely to be noticed as out of place by officers.

NOTES

1. Source is the total number of recoveries of equipment stolen in 2016. Each piece of equipment manufactured in 2016 faced potential theft for only part of the year, from the date sold to December 31.
2. Results may be skewed slightly because owners often misstate the date of manufacture. For example, a buyer may list a 2010 model purchased in 2011 as a 2011 model.

Top Ten Cities for Equipment Recovery

City	State	Recoveries
Houston	TX	47
Bakersfield	CA	33
Miami	FL	30
Fort Myers	FL	20
Dallas	TX	18
Louisville	KY	17
Oklahoma City	OK	16
Sacramento	CA	16
Salinas	CA	16
Fresno	CA	15
San Jose	CA	15

ANALYSIS

Recoveries tend to be localized near high-theft areas, suggesting that a good deal of stolen equipment does not move far. This may be due to the rules of supply and demand: where there is equipment to steal, there are machines that are needed. Unfortunately, not all high-theft areas have high recoveries. Areas with proper funding, training, and dedicated heavy equipment task forces have much higher recovery rates. It is interesting to note California's significant presence on this list. This state's mandatory statewide registration programs provide law enforcement with many opportunities to access equipment and, therefore, make recoveries.

NOTES

1. Source is the total number of equipment recovered in 2016.
2. If a thief does not sell the equipment immediately in the local area, there is a greater likelihood that, as more time passes, the thief will move equipment out of state and sell it to a purchaser that seems to have no knowledge of the theft.
3. Fresno, CA, and San Jose, CA, are tied for tenth place.



B Y T H E N U M B E R S





Key Statistics

11,841,849

Number of ownership records
in the NER database

\$29,258

Average value of machines
recovered by police with
NICB and NER assistance

\$12,054,311

Value of items recovered by law enforcement with the help
of the NICB and NER in 2016

121,238

Theft reports in
the NER database

12,302

Fleets with equipment registered
with NER

2,646

Law enforcement officers trained
by the NICB on heavy equipment
investigations in 2016

412

Recoveries made by
law enforcement with the help of
the NICB and NER in 2016

18

States in which the NICB
conducted training in 2016

50

Number of insurance companies
or agencies offering incentives
to register equipment
on the NER database

NOTES

1. The above numbers give a snapshot of NER and NICB operations as of December 31, 2016.

2016 Case Studies

Anonymous Tip Leads to \$330,000 Property Recovery

An anonymous tip led NICB Agent Hogan to reach out to the Delta Regional Auto Theft Team (Delta RATT) in San Joaquin County, California. The investigators obtained a search warrant for a Lodi residence, where they seized two disguised stolen vehicles, a disguised stolen watercraft, numerous ammunition rounds, and suspected methamphetamine. Several of the stolen vehicles had been taken from dealer lots in the San Francisco Bay Area. The subject was subsequently placed in custody and booked into the San Joaquin County jail.

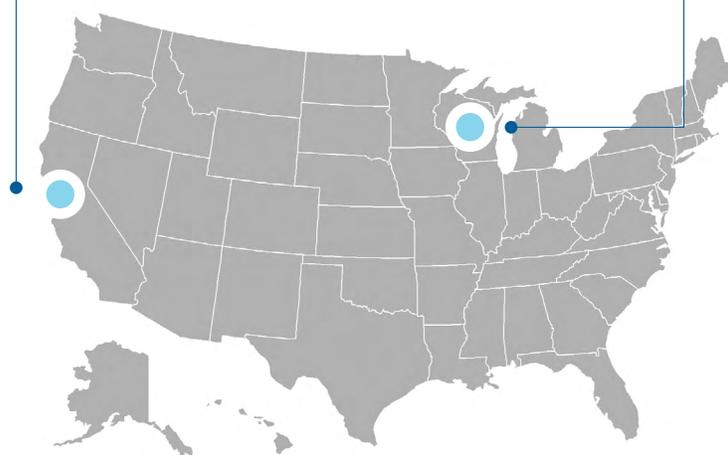
Information gleaned from the search led to a second search warrant for the subject's 150-acre ranch in San Joaquin County, California. A two-day search turned up 17 stolen vehicles as well as all-terrain vehicles, off-road motorcycles, watercraft, farm equipment, and construction equipment, all of which were identified and recovered. The total value of recovered property was approximately \$330,000.

The subject was subsequently charged with numerous vehicle theft violations through the San Joaquin County District Attorney's Office. The case is currently working its way through the judicial system.

Stolen Equipment Discovered in Michigan

A specialized equipment analyst at NICB Field Operations was notified by NER that a construction equipment company in Allegan, Michigan, had unknowingly purchased several pieces of used equipment that were later found to be stolen.

Supervisory Special Agent (SSA) Hanley contacted the Michigan State Police and provided them with information about the business and the equipment in question. The Michigan State Police responded and were able to locate, identify, and recover four of the seven stolen units: Case 570-LXT, Case 597 Super-L, Case 580-L, and Case 580 Super-M. The Michigan State Police have information regarding the location of the other three units and are working with the police departments that originally took the theft reports. The Michigan State Police advise that the subject(s) who sold the equipment are well known to them and have extensive criminal histories. The investigation is ongoing.





Summary

Although complete statistics do not exist, it is clear from available data that equipment theft is a serious problem. Estimates derived from data in this year's report suggest the total value of stolen equipment in 2016 is close to \$300 million. Those numbers do not include losses from business interruption, such as short-term rental costs, project-delay penalties, and wasted workforce and management time. By frequency of loss, theft is a greater problem than any other type of equipment risk.

Equipment theft levels coincide with the amount of equipment in a particular area. The states with the highest volume of construction and agriculture report the largest number of thefts.

Mobility and value of equipment are the lead contributors to theft. Most thefts are from work sites with little or no security. Given two similar types of machines, a thief will steal the newer one because it is more valuable. In contrast to the automobile industry, there is little difference in equipment security between a new machine and one made several years ago.

Law enforcement recovers as little as 20% of stolen equipment. Recovery locations and types closely mirror theft locations and types.



Conclusion

Equipment owners and insurers should increase risk management for easily transportable, high-value equipment.

Both equipment security and work-site security are necessary to prevent theft. Work-site security is especially critical because equipment often sits in areas with little or no physical security.

Officers investigating equipment theft should focus on popular targets and look for red flags, such as unusual location, type of transport, missing decals, altered paint, and especially, missing identification plates.

The area that needs the most improvement is also the area that promises immediate results: supplying accurate information to law enforcement 24 hours a day through NER and the NICB.

