APPARENT CONSUMPTION OF INDUSTRIAL EXPLOSIVES AND BLASTING AGENTS IN THE UNITED STATES, 1986

Apparent consumption of explosives and blasting agents in the United States decreased slightly to 3.7 billion pounds, according to the Bureau of Mines, U.S. Department of the Interior. Apparent consumption is measured by sales reported by manufacturers.

Permissibles consumption decreased slightly and other high explosives consumption decreased 3% compared with that of 1985.

All principal consuming industries except metal mining and all other purposes used larger quantities of explosives and blasting agents in 1986 than in 1985. About 64% of the total weight was utilized in the mining of coal. Nearly all permissibles and 68% of ammonium nitrate-fuel oil blasting agents and unprocessed ammonium nitrate were consumed in coal mining. Other high explosives were used primarily in quarrying and nonmetal mining (48%) and construction (28%). The major uses of water gels and slurries were in coal mining (43%) and quarrying and nonmetal mining (31%).

Seven States collectively consumed 59% of all explosives and blasting agents used in the United States in 1986. These were, in decreasing order of consumption, Kentucky, Pennsylvania, Alabama, West Virginia, and Ohio.
Classification of Industrial Explosives and Blasting Agents

"Apparent consumption" of explosives and blasting agents, as used in this report, means sales reported to the Institute of Makers of Explosives (IME) by IME members and provided to the Bureau of Mines on a proprietary basis, plus sales by nonmember manufacturers reported directly to the Bureau on Form 6-1439-A. Classification of explosives and blasting agents by type and use appears as reported by the manufacturers. Sales of explosives and blasting agents imported by nonmanufacturers are not included, but may be locally important. Some quantities are published in such a way to avoid disclosing company proprietary data.

The principal distinction between explosives and blasting agents is related to their sensitivity to initiation. Explosives are cap-sensitive but blasting agents are not, and therefore require a primer. Only "high" explosives are currently reported. "Low" explosives, which burn very rapidly but do not detonate, include principally black powder and propellants. Black powder has not been reported in industrial use since 1971. Both explosives and blasting agents vary widely in composition, although most blasting agents are essentially mixtures of ammonium nitrate plus a fuel.

Water gels and slurries may be either explosives or blasting agents, but for convenience are classified in a separate category.

The five product classifications used in this report are the same as those adopted by IME. These are as follows:

1. Permissibles.—Grades of high explosives approved by brand name by the U.S. Bureau of Mines or the Mine Safety and Health Administration for use, in a prescribed manner, in underground coal mines, including water gels and slurries approved as permissibles.

2. Other High Explosives.—All high explosives except
   (a) permissibles and
   (b) any water gels or slurries that would otherwise be classified as high explosives.

Included in the "Other High Explosives" classification are all formulations packaged in metal containers.

3. Packaged and Bulk Water Gels, Slurries, and Emulsions.—All water gels, slurries, and emulsions, packaged or in bulk, made by addition of more than 5% water to high explosives or blasting agents, except those approved as permissibles.

4. Ammonium Nitrate-Fuel Oil Blasting Agents.—Without regard to packaging or container, and having a density less than 1.0 gram per cubic centimeter (cc).

5. Unprocessed Ammonium Nitrate.—Prilled or grained ammonium nitrate for use in blasting agents.
Companies covered by this report, including IME members, are as follows:

American Cyanamid Company—New Castle, Pennsylvania
Apache Powder Company—Benson, Arizona
Atlas Powder Company—Dallas, Texas
Austin Powder Company—Cleveland, Ohio
C-I-L Inc.—Willowdale, Ontario, Canada
Columbia Nitrogen Corp.—Augusta, Georgia
E. I. du Pont de Nemours & Co., Inc.—Wilmington, Delaware
El Dorado Chemical Co.—St. Louis, Missouri
Ensign Bickford Company—Simsbury, Connecticut
Coex Inc.—Cleburne, Texas
W.R. Grace & Co. AGC—Memphis, Tennessee
Hawkeye Chemical Company—Clinton, Iowa
Independent Explosives Company of Pennsylvania—Scranton, Pennsylvania
Ireo Incorporated—Salt Lake City, Utah
Kaichem Internal Corp.—Garden City, Georgia
Mining Services International—Salt Lake City, Utah
Nitrochem Energy Corp.—Allentown, Pennsylvania
Sierra Chemical Company—Reno, Nevada
Southern Explosives Corporation—Glasgow, Kentucky
Thermex Energy Corporation—Dallas, Texas
Trojan Corp.—Salt Lake City, Utah
UNOCAL Corporation—Los Angeles, California
US Agri-Chemicals—Atlanta, Georgia

| TABLE 1.—Salient statistics of industrial explosives and blasting agents sold for consumption in the United States, 1985-86 (Thousand pounds) |
|---|---|---|
| Class | 1985 | 1986 |
| Permissibles | 36,068 | 35,439 |
| Other high explosives | 1/135,876 | 131,789 |
| Water gels, slurries, and emulsions | 1/324,526 | 420,090 |
| Ammonium nitrate—fuel oil blasting agents | 1/556,859 | 648,433 |
| Unprocessed ammonium nitrate | 2/2,747,025 | 2,486,958 |
| Total | 3,800,354 | 3,772,714 |

1/Some quantities of this class of explosive are included with "Unprocessed ammonium nitrate" to avoid disclosing company proprietary data.
2/Includes some quantities of other high explosives, water gels, slurries, and emulsions, and ammonium nitrate—fuel oil blasting agents.
TABLE 2.--Industrial explosives and blasting agents sold for consumption in the United States, by class and use, 1985–86  
(Thousand pounds)

<table>
<thead>
<tr>
<th>Class</th>
<th>Coal mining 1/</th>
<th>Metal mining 1/</th>
<th>Quarrying and nonmetal mining 1/</th>
<th>Construction work 1/</th>
<th>All other purposes 2/</th>
<th>Total 1985</th>
<th>Total 1986</th>
</tr>
</thead>
<tbody>
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<td>Permissables</td>
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<td>117</td>
<td>7</td>
<td>481</td>
<td>155</td>
<td>836</td>
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<td>7,027</td>
<td>55,470</td>
<td>63,249</td>
<td>35,460</td>
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<td>Water gels and</td>
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<td>57,153</td>
<td>80,283</td>
<td>128,854</td>
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<td>slurries 3/</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Unprocessed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>ammonium nitrate 5/</td>
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<td>222,987</td>
<td>267,539</td>
<td>275,177</td>
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<tr>
<td>Total</td>
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<td>2,366,215</td>
<td>382,410</td>
<td>319,844</td>
<td>510,500</td>
<td>585,220</td>
<td>247,451</td>
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</tbody>
</table>

1/ Some quantities of this use for 1985 are included with "All other purposes" to avoid disclosing company proprietary data.
2/ Includes some quantities from coal mining, metal mining, quarrying, and nonmetal mining, and construction work for 1985.
3/ Some quantities of this class of explosive for 1985 are included with "Unprocessed ammonium nitrate" to avoid disclosing company proprietary data.
5/ Includes some quantities of other high explosives, water gels and slurries, ammonium nitrate-fuel oil blasting agents for 1985.
TABLE 3. Industrial explosives and blasting agents sold for consumption in the United States, by State and use, 1986
(Thousand pounds)

<table>
<thead>
<tr>
<th>State</th>
<th>Coal mining</th>
<th>Metal mining</th>
<th>Quarrying and nonmetal mining</th>
<th>Construction work</th>
<th>All other purposes/</th>
<th>Total</th>
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<td>237</td>
<td>281,348</td>
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<td>6,450</td>
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<td>97,612</td>
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<td>151</td>
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Total         2,365,215 319,844 585,220 258,651 192,784 3,722,714

1/Some quantities of this use are included in "Undistributed" to avoid disclosing company proprietary data.
2/Included with Maryland.
<table>
<thead>
<tr>
<th>State</th>
<th>Permissibles</th>
<th>Other high explosives</th>
<th>Water gels, slurries, and emulsions</th>
<th>Ammonium nitrate-fuel oil blasting agents</th>
<th>Unprocessed ammonium nitrate 1</th>
<th>Total</th>
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1/Some quantities of this class of explosives are included in "Undistributed" to avoid disclosing company proprietary data.

2/Included with Maryland.
TABLE 5.--Permissible explosives sold for consumption in the United States, by State and use, 1986
(Thousand pounds)

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Total: 416,914 32,670 117,785 53,821 27,248 648,438

1/Included with Maryland.
TABLE 9.—Unprocessed ammonium nitrate sold for consumption in the United States, by State and use, 1966
(Thousand pounds)

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1/ Some quantities of this use are included in "Undistributed" to avoid disclosing company proprietary data.

2/ Included with Maryland.