## TABLE 68

Importance of types of intellectual property protections to companies located in the United States that performed or funded R\&D, by industry and company size: 2020 (Percent)

| Industry and company size | NAICS code | Utility patents |  |  | Design patents |  |  | Trademarks |  |  | Copyrights |  |  | Trade secrets |  |  | Mask works |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { Very } \\ \text { importa } \end{gathered}$ | Somew importa | $\begin{array}{r} \text { Not } \\ \text { import } \end{array}$ | Very | Somew import | $\begin{array}{r} \text { Not } \\ \text { import } \end{array}$ |  | Somewh importa | $\begin{array}{r} \text { Not } \\ \text { importa } \end{array}$ |  | Somew import | $\begin{array}{r\|r} \text { at } & \text { Not } \\ \text { t } & \text { import } \end{array}$ |  | Somewh importa | $\begin{array}{r\|r} \text { It } & \text { Not } \\ \text { importé } \end{array}$ | $\begin{gathered} \text { Very } \\ \text { importa } \end{gathered}$ | Somewh importa | $\begin{array}{\|c\|c\|} \text { it } & \text { Not } \\ \text { t } & \text { important } \end{array}$ |
| All industries | $\begin{array}{r} 21-23,31-33 \\ 42-81 \end{array}$ | 25.4 | 18.5 | 56.1 | 15.5 | 21.2 | 63.3 | 33.6 | 29.0 | 37.3 | 23.0 | 27.3 | 49.7 | 44.7 | 23.3 | 32.1 | 4.6 | 8.9 | 86.5 |
| Manufacturing industries | 31-33 | 29.2 | 18.9 | 51.9 | 17.8 | 23.3 | 58.9 | 35.1 | 26.8 | 38.0 | 20.5 | 27.2 | 52.3 | 48.8 | 23.4 | 27.8 | 5.4 | 9.6 | 85.0 |
| Food | 311 | 12.9 | 20.0 | 67.1 | 22.4 | 14.1 | 63.5 | 47.7 | 18.6 | 33.7 | 33.3 | 17.3 | 49.4 | 53.6 | 20.2 | 26.2 | 8.3 | 6.0 | 85.7 |
| Beverage and tobacco products | 312 | 8.3 | 8.3 | 83.3 | 8.3 | 8.3 | 83.3 | 37.5 | 25.0 | 37.5 | 16.7 | 16.7 | 66.7 | 29.2 | 41.7 | 29.2 | 4.2 | 4.2 | 91.7 |
| Textile, apparel, and leather products | 313-316 | 23.8 | 33.3 | 42.9 | 23.8 | 33.3 | 42.9 | 47.8 | 26.1 | 26.1 | 22.7 | 31.8 | 45.5 | 47.6 | 23.8 | 28.6 | 4.5 | 13.6 | 81.8 |
| Wood products | 321 | 15.4 | 30.8 | 53.8 | 14.3 | 28.6 | 57.1 | 38.5 | 23.1 | 38.5 | 15.4 | 38.5 | 46.2 | 35.7 | 35.7 | 28.6 | 7.1 | 7.1 | 85.7 |
| Paper | 322 | 18.2 | 18.2 | 63.6 | 20.0 | 20.0 | 60.0 | 20.0 | 30.0 | 50.0 | 9.1 | 27.3 | 63.6 | 30.0 | 30.0 | 40.0 | 9.1 | 9.1 | 81.8 |
| Printing and related support activities | 323 | 15.0 | 20.0 | 65.0 | 15.0 | 25.0 | 60.0 | 20.0 | 30.0 | 50.0 | 15.8 | 21.1 | 63.2 | 26.3 | 31.6 | 42.1 | 5.3 | 10.5 | 84.2 |
| Petroleum and coal products | 324 | 27.3 | 18.2 | 54.5 | 18.2 | 18.2 | 63.6 | 45.5 | 27.3 | 27.3 | 20.0 | 30.0 | 50.0 | 70.0 | 10.0 | 20.0 | 0.0 | 10.0 | 90.0 |
| Chemicals | 325 | 42.9 | 19.5 | 37.6 | 14.7 | 21.9 | 63.4 | 44.9 | 31.7 | 23.3 | 22.7 | 31.6 | 45.8 | 63.4 | 20.5 | 16.1 | 4.9 | 9.7 | 85.4 |
| Basic chemicals | 3251 | 42.9 | 21.4 | 35.7 | 17.9 | 17.9 | 64.3 | 42.9 | 28.6 | 28.6 | 25.0 | 25.0 | 50.0 | 62.1 | 20.7 | 17.2 | 14.3 | 10.7 | 75.0 |
| Resin, synthetic rubber, and artificial synthetic fibers and filaments | 3252 | 33.3 | 16.7 | 50.0 | 18.2 | 27.3 | 54.5 | 38.5 | 30.8 | 30.8 | 16.7 | 33.3 | 50.0 | 58.3 | 16.7 | 25.0 | 8.3 | 8.3 | 83.3 |
| Pesticide, fertilizer, and other agricultural chemicals | 3253 | 21.4 | 21.4 | 57.1 | 14.3 | 21.4 | 64.3 | 28.6 | 42.9 | 28.6 | 15.4 | 23.1 | 61.5 | 57.1 | 21.4 | 21.4 | 7.1 | 7.1 | 85.7 |
| Pharmaceuticals and medicines | 3254 | 55.8 | 21.2 | 23.0 | 14.3 | 22.3 | 63.4 | 45.9 | 33.3 | 20.7 | 21.4 | 38.4 | 40.2 | 61.6 | 24.1 | 14.3 | 4.5 | 11.7 | 83.8 |
| Soap, cleaning compound, and toilet preparation | 3256 | 22.2 | 18.5 | 59.3 | 17.9 | 25.0 | 57.1 | 40.7 | 37.0 | 22.2 | 33.3 | 18.5 | 48.1 | 63.0 | 11.1 | 25.9 | 3.7 | 11.1 | 85.2 |
| Paint, coating, adhesive, and other chemicals | 3255, 3259 | 27.5 | 17.5 | 55.0 | 15.8 | 21.1 | 63.2 | 48.8 | 24.4 | 26.8 | 22.5 | 30.0 | 47.5 | 68.4 | 18.4 | 13.2 | 2.6 | 5.1 | 92.3 |
| Plastics and rubber products | 326 | 29.5 | 17.9 | 52.6 | 17.7 | 22.9 | 59.4 | 29.5 | 27.4 | 43.2 | 15.2 | 29.3 | 55.4 | 43.8 | 22.9 | 33.3 | 4.3 | 10.6 | 85.1 |
| Nonmetallic mineral products | 327 | 31.8 | 18.2 | 50.0 | 18.2 | 22.7 | 59.1 | 31.8 | 27.3 | 40.9 | 22.7 | 27.3 | 50.0 | 40.9 | 22.7 | 36.4 | 9.1 | 9.1 | 81.8 |
| Primary metals | 331 | 20.0 | 16.0 | 64.0 | 12.5 | 16.7 | 70.8 | 16.7 | 25.0 | 58.3 | 8.7 | 17.4 | 73.9 | 33.3 | 29.2 | 37.5 | 4.3 | 4.3 | 91.3 |
| Fabricated metal products | 332 | 12.6 | 15.3 | 72.1 | 11.2 | 18.2 | 70.6 | 19.9 | 15.3 | 64.8 | 10.7 | 19.1 | 70.2 | 34.4 | 20.0 | 45.6 | 1.4 | 7.6 | 91.0 |
| Machinery | 333 | 34.7 | 16.6 | 48.7 | 20.6 | 23.6 | 55.8 | 38.2 | 27.1 | 34.7 | 21.2 | 27.8 | 51.0 | 44.3 | 27.4 | 28.4 | 3.6 | 9.3 | 87.0 |
| Agricultural implement | 33311 | 46.7 | 20.0 | 33.3 | 20.0 | 33.3 | 46.7 | 46.7 | 26.7 | 26.7 | 33.3 | 26.7 | 40.0 | 37.5 | 31.3 | 31.3 | 6.7 | 13.3 | 80.0 |
| Semiconductor machinery | 333242 | 33.3 | 33.3 | 33.3 | 16.7 | 33.3 | 50.0 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 33.3 | 42.9 | 28.6 | 28.6 | 16.7 | 33.3 | 50.0 |
| Engine, turbine, and power transmission equipment | 3336 | 44.4 | 11.1 | 44.4 | 33.3 | 33.3 | 33.3 | 37.5 | 25.0 | 37.5 | 22.2 | 22.2 | 55.6 | 44.4 | 22.2 | 33.3 | 11.1 | 11.1 | 77.8 |
| Other machinery | other 333 | 32.6 | 16.3 | 51.2 | 20.2 | 22.5 | 57.2 | 37.6 | 27.2 | 35.3 | 19.9 | 28.1 | 52.0 | 44.3 | 27.6 | 28.2 | 3.0 | 8.9 | 88.1 |
| Computer and electronic products | 334 | 33.2 | 21.6 | 45.2 | 19.2 | 24.7 | 56.1 | 38.2 | 30.7 | 31.2 | 28.1 | 29.6 | 42.3 | 62.2 | 21.2 | 16.6 | 15.0 | 15.0 | 69.9 |
| Communications equipment | 3342 | 23.1 | 28.2 | 48.7 | 12.8 | 23.1 | 64.1 | 33.3 | 33.3 | 33.3 | 23.7 | 28.9 | 47.4 | 57.9 | 23.7 | 18.4 | 8.1 | 18.9 | 73.0 |
| Semiconductor and other electronic components | 3344 | 33.3 | 13.0 | 53.7 | 18.2 | 18.2 | 63.6 | 30.9 | 25.5 | 43.6 | 21.2 | 30.8 | 48.1 | 59.2 | 24.5 | 16.3 | 28.3 | 17.0 | 54.7 |

## TABLE 68

Importance of types of intellectual property protections to companies located in the United States that performed or funded R\&D, by industry and company size: 2020 (Percent)

|  |  | Utility patents |  |  | Design patents |  |  | Trademarks |  |  | Copyrights |  |  | Trade secrets |  |  | Mask works |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry and company size | NAICS code | Very import | Somew import | $\begin{gathered} \text { Not } \\ \text { importa } \end{gathered}$ | Very importa | Somew importa | $\begin{array}{r\|r} \text { t } & \text { Not } \\ \text { import } \end{array}$ |  | Somew import | $\begin{array}{r} \text { Not } \\ \text { importa } \end{array}$ | Very importa | Somew importa | $\begin{array}{r\|r} \text { t } & \text { Not } \\ \text { import } \end{array}$ | $\begin{array}{r} \text { Very } \\ \text { import } \end{array}$ |  | $\begin{array}{\|c\|c} \text { at } & \begin{array}{c} \text { Not } \\ \text { importa } \end{array} \end{array}$ | Very importa | Somewh importa |  | Not important |
| Navigational, measuring, electromedical, and control instruments | 3345 | 37.4 | 23.1 | 39.6 | 20.2 | 25.8 | 53.9 | 38.9 | 36.7 | 24.4 | 27.8 | 30.0 | 42.2 | 64.0 | 21.3 | 14.6 | 11.4 | 13.6 |  | 75.0 |
| Electromedical, electrotherapeutic, and irradiation apparatus | $\begin{gathered} 334510, \\ 334517 \end{gathered}$ | 43.8 | 25.0 | 31.3 | 17.6 | 35.3 | 47.1 | 43.8 | 43.8 | 12.5 | 12.5 | 56.3 | 31.3 | 62.5 | 25.0 | 12.5 | 6.3 | 18.8 |  | 75.0 |
| Search, detection, navigation, guidance, aeronautical, and nautical system and instrument | 334511 | 28.6 | 21.4 | 50.0 | 14.3 | 21.4 | 64.3 | 33.3 | 33.3 | 33.3 | 28.6 | 35.7 | 35.7 | 69.2 | 15.4 | 15.4 | 7.1 | 14.3 |  | 78.6 |
| Other measuring and controlling device | other 3345 | 38.1 | 22.2 | 39.7 | 23.8 | 25.4 | 50.8 | 38.1 | 36.5 | 25.4 | 33.3 | 22.2 | 44.4 | 61.9 | 22.2 | 15.9 | 14.5 | 12.9 |  | 72.6 |
| Other computer and electronic products | other 334 | 36.8 | 26.3 | 36.8 | 35.0 | 40.0 | 25.0 | 70.0 | 15.0 | 15.0 | 55.0 | 25.0 | 20.0 | 68.4 | 10.5 | 21.1 | 15.8 | 10.5 |  | 73.7 |
| Electrical equipment, appliances, and components | 335 | 25.0 | 30.0 | 45.0 | 18.0 | 32.8 | 49.2 | 24.2 | 40.3 | 35.5 | 16.7 | 36.7 | 46.7 | 39.3 | 37.7 | 23.0 | 6.7 | 18.3 |  | 75.0 |
| Transportation equipment | 336 | 24.4 | 18.9 | 56.7 | 16.5 | 33.0 | 50.5 | 26.7 | 27.8 | 45.6 | 20.2 | 28.1 | 51.7 | 45.5 | 21.6 | 33.0 | 3.3 | 12.2 |  | 84.4 |
| Motor vehicles, bodies, trailers, and parts | $\begin{array}{r} 3361,3362, \\ 3363 \end{array}$ | 25.0 | 18.2 | 56.8 | 14.0 | 34.9 | 51.2 | 28.9 | 28.9 | 42.2 | 23.3 | 27.9 | 48.8 | 38.6 | 22.7 | 38.6 | 4.5 | 13.6 |  | 81.8 |
| Aerospace products and parts | 3364 | 25.7 | 17.1 | 57.1 | 17.6 | 26.5 | 55.9 | 25.7 | 22.9 | 51.4 | 20.6 | 20.6 | 58.8 | 57.1 | 20.0 | 22.9 | 3.0 | 12.1 |  | 84.8 |
| Aircraft, aircraft engine, and aircraft parts | 336411-13 | 22.6 | 16.1 | 61.3 | 19.4 | 25.8 | 54.8 | 25.0 | 21.9 | 53.1 | 19.4 | 22.6 | 58.1 | 58.1 | 19.4 | 22.6 | 3.2 | 12.9 |  | 83.9 |
| Guided missile, space vehicle, and related parts | $\begin{array}{r} 336414-15, \\ 336419 \end{array}$ | 40.0 | 20.0 | 40.0 | 25.0 | 25.0 | 50.0 | 40.0 | 20.0 | 40.0 | 20.0 | 20.0 | 60.0 | 60.0 | 20.0 | 20.0 | 20.0 | 20.0 |  | 60.0 |
| Military armored vehicle, tank, and tank component | 336992 | 33.3 | 33.3 | 33.3 | 0.0 | 50.0 | 50.0 | 33.3 | 33.3 | 33.3 | 0.0 | 50.0 | 50.0 | 33.3 | 33.3 | 33.3 | 0.0 | 50.0 |  | 50.0 |
| Other transportation | other 336 | 21.4 | 28.6 | 50.0 | 21.4 | 42.9 | 35.7 | 28.6 | 35.7 | 35.7 | 14.3 | 42.9 | 42.9 | 33.3 | 25.0 | 41.7 | 7.1 | 7.1 |  | 85.7 |
| Furniture and related products | 337 | 17.4 | 26.1 | 56.5 | 22.7 | 27.3 | 50.0 | 26.1 | 39.1 | 34.8 | 17.4 | 30.4 | 52.2 | 26.1 | 30.4 | 43.5 | 4.3 | 8.7 |  | 87.0 |
| Miscellaneous | 339 | 47.4 | 18.0 | 34.6 | 30.1 | 29.3 | 40.6 | 45.7 | 27.9 | 26.4 | 26.3 | 30.8 | 42.9 | 55.3 | 21.2 | 23.5 | 6.1 | 6.9 |  | 87.0 |
| Medical equipment and supplies | 3391 | 53.8 | 12.8 | 33.3 | 30.8 | 24.4 | 44.9 | 41.1 | 31.5 | 27.4 | 25.6 | 29.5 | 44.9 | 54.5 | 23.4 | 22.1 | 9.1 | 7.8 |  | 83.1 |
| Other miscellaneous manufacturing | 3399 | 38.6 | 26.3 | 35.1 | 29.8 | 36.8 | 33.3 | 50.0 | 24.1 | 25.9 | 28.1 | 33.3 | 38.6 | 54.4 | 19.3 | 26.3 | 3.6 | 7.1 |  | 89.3 |
| Nonmanufacturing industries | 21-23, 42-81 | 21.2 | 18.1 | 60.6 | 13.0 | 19.0 | 68.0 | 32.0 | 31.5 | 36.5 | 25.7 | 27.5 | 46.8 | 40.2 | 23.1 | 36.7 | 3.8 | 8.1 |  | 88.1 |
| Mining, quarrying, oil and gas extraction, and support activities | 21 | 38.7 | 9.7 | 51.6 | 21.9 | 18.8 | 59.4 | 36.4 | 12.1 | 51.5 | 31.3 | 12.5 | 56.3 | 48.4 | 19.4 | 32.3 | 3.2 | 6.5 |  | 90.3 |
| Utilities | 22 | 40.0 | 20.0 | 40.0 | 20.0 | 20.0 | 60.0 | 40.0 | 20.0 | 40.0 | 16.7 | 33.3 | 50.0 | 40.0 | 20.0 | 40.0 | 16.7 | 16.7 |  | 66.7 |
| Wholesale trade | 42 | 28.7 | 24.6 | 46.7 | 22.0 | 25.4 | 52.5 | 46.8 | 26.6 | 26.6 | 30.3 | 30.3 | 39.5 | 38.5 | 29.5 | 32.0 | 2.7 | 10.6 |  | 86.7 |
| Electronic shopping and electronic auctions | 454111-12 | 20.0 | 10.0 | 70.0 | 11.1 | 33.3 | 55.6 | 50.0 | 40.0 | 10.0 | 22.2 | 33.3 | 44.4 | 20.0 | 60.0 | 20.0 | 10.0 | 10.0 |  | 80.0 |
| Transportation and warehousing | 48-49 | 33.3 | 16.7 | 50.0 | 20.0 | 20.0 | 60.0 | 33.3 | 33.3 | 33.3 | 16.7 | 50.0 | 33.3 | 20.0 | 40.0 | 40.0 | 0.0 | 20.0 |  | 80.0 |
| Information | 51 | 21.7 | 19.9 | 58.4 | 15.2 | 21.0 | 63.8 | 46.1 | 32.4 | 21.5 | 38.9 | 31.1 | 30.0 | 49.0 | 25.4 | 25.7 | 5.4 | 8.3 |  | 86.3 |
| Publishing | 511 | 22.9 | 17.2 | 59.9 | 17.3 | 16.0 | 66.7 | 47.1 | 35.5 | 17.4 | 41.7 | 33.3 | 25.0 | 57.1 | 23.4 | 19.5 | 7.4 | 6.7 |  | 85.9 |

## TABLE 68

Importance of types of intellectual property protections to companies located in the United States that performed or funded R\&D, by industry and company size: 2020
(Percent)


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Importance of types of intellectual property protections to companies located in the United States that performed or funded R\&D, by industry and company size: 2020 (Percent)


NAICS $=2017$ North American Industry Classification System.
${ }^{\text {a }}$ The Business Enterprise Research and Development Survey does not include companies with fewer than 10 domestic employees.
Note(s):


 change in rounding methodology. These statistics are also not comparable to estimates prior to 2012 because those estimates are representative of all companies in the United States.

## Source(s):

Source(s):
National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2020.

