

TABLE A-10

Companies that required an analyst action, by sampling stratum: 2022

(Number)

Stratum	Total	Companies deleted ^a	Companies requiring action due to merger or acquisition ^b	Companies requiring action due to analyst review ^c
Total	2,900	2,800	100	<i>N</i> < 15
Known positive R&D	900	850	40	<i>N</i> < 15
Certainties	650	600	30	<i>N</i> < 15
Noncertainties	250	250	<i>N</i> < 15	0
Known zero R&D	na	na	na	na
Certainties	na	na	na	na
Noncertainties	na	na	na	na
Unknown R&D	2,000	1,900	60	<i>N</i> < 15
Certainties	450	450	20	<i>N</i> < 15
Noncertainties	1,500	1,500	40	<i>N</i> < 15
Cases not in the frame	30	20	<i>N</i> < 15	0

na = not applicable.

^a Companies are deleted when they are found to be out of business or out of scope for the survey during the reporting period.^b Information regarding mergers and acquisitions comes from several sources. The information is collected on the form, and a presurvey contact requests the information from top R&D-performing companies. Information may also come from the company profiles that are maintained by survey staff.^c These companies are added based on a review of historic R&D reported to the Business Enterprise Research and Development Survey and public information available on the companies' R&D expenses.**Note(s):**

Beginning in survey year 2021, companies in the known zero R&D group were combined with the unknown R&D group. See "Technical Notes." Beginning in survey year 2019, counts reflect a change in rounding methodology. Detail may not add to total because of rounding. Companies were said to be known to conduct R&D (*known positive R&D*) if they reported positive R&D in any of the previous 5 survey years. Companies were said to have *known zero R&D* if they reported zero R&D in at least 1 of the previous 3 survey years and no positive R&D in any of the previous 5 survey years. Companies were said to have *unknown R&D* if no R&D information was available.

Source(s):

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2022.