

Federal technology transfer indicators, by selected U.S. agency: FY 1987–2003

Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Invention disclosures and patenting																	
All 10 agencies																	
Inventions disclosed	2,662	3,047	3,168	3,772	4,213	3,901	3,538	3,753	4,001	4,153	3,842	3,503	3,649	3,566	3,962	4,135	4,348
Patent applications filed	848	1,131	1,466	1,727	1,940	1,867	1,838	1,724	1,803	1,723	1,850	1,894	2,092	2,132	2,180	2,118	2,242
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,265	1,466	1,450	1,444	1,605	1,498	1,607
USDA																	
Inventions disclosed	83	144	127	158	127	83	110	111	133	129	260	208	162	109	118	151	121
Patent applications filed	44	50	71	76	110	70	68	40	80	91	56	64	84	78	83	90	60
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	75	74	64	64	53	64
DOC																	
Inventions disclosed	43	31	49	46	30	55	66	51	65	71	58	40	38	34	26	17	21
Patent applications filed	8	15	28	28	18	53	43	41	35	60	49	66	30	20	12	12	5
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	19	28	18	21	20	9
DOD																	
Inventions disclosed	953	1,147	1,153	1,383	1,524	1,283	1,189	1,172	1,168	1,115	1,150	1,028	1,060	991	1,005	1,122	1,332
Patent applications filed	343	447	616	807	919	850	835	732	759	716	735	755	703	774	809	829	810
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	554	579	547	553	619	617	619
DOE																	
Inventions disclosed	857	1,003	1,053	1,335	1,666	1,698	1,443	1,588	1,758	1,886	1,500	1,313	1,474	1,371	1,527	1,498	1,469
Patent applications filed	252	336	382	366	397	432	497	543	571	564	705	751	850	788	792	711	866
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	384	512	525	515	605	551	627
EPA																	
Inventions disclosed	0	0	0	12	20	9	22	19	15	20	9	14	5	11	17	16	14
Patent applications filed	4	5	5	6	8	12	15	15	24	18	13	11	15	10	14	14	23
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	1	8	6	12	9	8
HHS																	
Inventions disclosed	194	226	209	215	215	311	282	307	307	305	268	287	328	375	434	431	472
Patent applications filed	98	145	225	239	261	224	193	171	166	147	148	132	241	263	255	262	279
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152	171	180	132	119	116	136
DOI																	
Inventions disclosed	3	6	3	26	26	1	2	2	2	2	5	5	8	16	6	NA	NA
Patent applications filed	5	4	11	15	21	1	2	2	2	2	2	5	3	5	22	NA	NA
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	3	1	4	2	NA	NA
NASA																	
Inventions disclosed	496	462	532	538	570	416	384	457	517	550	550	554	525	574	696	775	736
Patent applications filed	94	129	125	181	205	225	185	179	164	123	140	105	129	158	152	166	163
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94	105	87	148	159	128	136
DOT																	
Inventions disclosed	0	0	0	1	2	1	1	1	0	4	2	4	1	0	2	0	0
Patent applications filed	0	0	0	1	1	0	0	1	2	2	1	3	0	1	3	0	0
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	1	0	3	0	0	0
VA																	
Inventions disclosed	33	28	42	58	33	44	39	45	36	71	40	50	48	85	131	125	183
Patent applications filed	NA	NA	3	8	NA	0	0	0	0	0	1	2	37	35	38	34	36
Patents issued	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	1	4	4	8

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Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Invention licenses																	
All 10 agencies																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,719	3,035	3,140	3,580	3,656
New invention licenses.....	128	129	150	164	206	239	260	337	408	462	487	492	603	510	578	538	588
USDA																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	218	225	255	267	270
New invention licenses.....	30	24	23	33	29	31	28	9	21	26	22	23	29	24	32	26	27
DOC																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	43	40	41	101
New invention licenses.....	0	0	1	0	2	5	3	3	4	10	11	17	8	4	5	5	59
DOD																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	177	189	283	350	361
New invention licenses.....	10	10	14	15	25	19	20	28	34	41	34	34	61	67	49	39	49
DOE																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	981	1,094	1,162	1,327	1,223
New invention licenses.....	37	43	57	62	75	81	96	118	140	154	175	162	202	169	226	206	172
EPA																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	16	23	32
New invention licenses.....	0	0	0	1	2	2	2	9	1	2	1	0	2	3	4	9	9
HHS																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,041	1,222	1,007	1,213	1,298
New invention licenses.....	35	42	48	47	69	96	99	151	176	193	208	215	208	192	212	198	199
DOI																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	6	8	NA	NA
New invention licenses.....	3	3	0	0	0	NA	NA	8	3	NA	0	0	0	2	2	NA	NA
NASA																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	238	292	290	295
New invention licenses.....	13	7	7	6	4	5	12	11	29	36	36	40	46	46	42	52	66
DOT																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1	0	0
New invention licenses.....	0	0	0	0	0	NA	NA	NA	NA	NA	0	1	0	0	1	0	0
VA																	
Active invention licenses	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	69	76
New invention licenses.....	0	0	0	0	0	NA	NA	NA	NA	NA	NA	NA	47	3	5	3	7
CRADAs																	
All 10 agencies																	
Traditional, active	34	98	271	460	731	1,078	1,628	2,471	3,121	3,530	3,078	3,038	2,996	2,939	2,837	2,816	2,936
New traditional	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,058	1,034	945	829	679	704	822
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	231	194	833	2,509	2,615
New nontraditional	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	121	106	78	75	247	1,878	1,926
USDA																	
Traditional, active	9	51	98	128	177	172	172	208	229	244	273	288	298	257	217	222	223
New traditional	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93	102	101	69	49	58	51

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Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	6
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	1	4
DOC																	
Traditional, active.....	0	9	44	82	115	177	292	368	407	406	377	337	275	221	188	139	92
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	77	67	46	26	26	12
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	1,744	1,811
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	1,693	1,755
DOD																	
Traditional, active.....	3	10	36	113	193	277	365	563	845	1,086	1,360	1,424	1,350	1,364	1,418	1,376	1,523
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	408	399	449	425	296	347	523
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	547	537	611
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	163	102	107
DOE																	
Traditional, active.....	0	0	0	1	43	250	582	1,094	1,392	1,677	963	868	715	687	558	680	661
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	274	266	240	151	204	192	140
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
EPA																	
Traditional, active.....	0	0	2	11	31	30	28	35	30	35	34	37	38	44	45	55	77
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	12	13	40	18	18	27
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	4	14
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	3	12
HHS																	
Traditional, active.....	22	28	89	110	144	146	149	147	152	NA	NA	NA	237	244	289	261	254
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	32	43	58	50	61	52	54
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	231	194	209	209	173
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	121	106	78	75	76	74	48
DOI																	
Traditional, active.....	0	0	1	12	11	1	3	9	15	22	23	30	30	40	41	NA	NA
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	7	10	8	14	NA	NA
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	NA	NA
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	NA	NA
NASA																	
Traditional, active.....	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1	0	0	0	0
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	0	0
DOT																	
Traditional, active.....	0	0	0	1	9	17	30	38	37	43	36	39	51	79	78	80	96
New traditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	5	38	11	9	7
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	4	12	0
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0	5	0

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Agency	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
VA																	
Traditional, active	0	0	1	2	8	8	7	9	14	17	12	15	1	2	2	2	10
New traditional	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	9	1	2	0	2	8
Nontraditional, active.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
New nontraditional.....	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0

NA = data not requested or not available

CRADA = cooperative research and development agreement; DOC = Department of Commerce; DOD = Department of Defense; DOE = Department of Energy; DOI = Department of the Interior; DOT = Department of Transportation; EPA = Environmental Protection Agency; HHS = Department of Health and Human Services; NASA = National Aeronautics and Space Administration; USDA = Department of Agriculture; VA = Department of Veterans Affairs

NOTES: Licenses and patent data not limited to CRADA activity. Invention licenses include patent licenses and material transfer licenses. Data are for CRADAs for agreements established under authority of 15 U.S. Code § 3710a. NASA collaborative R&D agreements under the National Aeronautics and Space Act of 1958 not included. Active CRADAs are those legally in force at any time during fiscal year. Traditional CRADAs involve collaborative R&D by federal laboratory and nonfederal partners. Nontraditional CRADAs are established for special purposes, such as material transfer or technical assistance that may result in protected information. Data for FY 1999 on may not be comparable to prior years because of methodological changes in data collection and processing.

SOURCES: Before 1999: U.S. Department of Commerce, Office of the Secretary, *Summary Report on Federal Laboratory Technology Transfer: 2002 Report to the President and the Congress Under the Technology Transfer and Commercialization Act* (2002). For FY 1999 on: U.S. Department of Commerce, Office of the Secretary, *Summary Report on Federal Laboratory Technology Transfer: FY 2003 Activity Metrics and Outcomes, 2004 Report to the President and the Congress Under The Technology Transfer and Commercialization Act* (2004).

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