

Appendix table 4-40

**Federal technology transfer activity indicators for U.S. agencies with federal laboratories: FYs 2001–10**

Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Invention disclosures and patenting										
All 10 agencies										
Inventions disclosed	3,962	4,149	5,106	5,454	4,771	5,193	4,486	4,365	4,423	4,783
Patent applications filed	2,175	2,130	2,318	1,768	1,745	1,912	1,825	1,938	2,086	1,830
Patents issued	1,610	1,511	1,631	1,391	1,012	1,284	1,405	1,272	1,497	1,143
USDA										
Inventions disclosed	118	151	121	142	125	105	126	133	154	164
Patent applications filed	83	90	60	81	88	83	114	123	123	112
Patents issued	64	53	64	50	27	39	37	30	24	44
DOC										
Inventions disclosed	26	17	21	25	21	14	32	40	41	34
Patent applications filed	12	12	5	12	12	5	8	21	20	19
Patents issued	21	20	9	12	10	7	3	2	7	11
DOD										
Inventions disclosed	1,005	1,122	1,332	1,369	534	1,056	838	1,018	831	698
Patent applications filed	809	829	810	517	354	691	597	590	690	436
Patents issued	619	617	619	426	191	472	425	462	404	304
DOE										
Inventions disclosed	1,527	1,498	1,469	1,617	1,776	1,694	1,575	1,460	1,439	1,616
Patent applications filed	792	711	866	661	812	726	693	904	919	965
Patents issued	605	551	627	520	467	438	441	370	520	480
EPA										
Inventions disclosed	17	16	14	18	12	12	16	9	8	5
Patent applications filed	14	14	23	12	13	13	15	6	3	3
Patents issued	12	9	8	11	9	10	10	4	9	9
HHS										
Inventions disclosed	434	431	472	461	452	442	447	437	389	363
Patent applications filed	255	262	279	216	230	166	261	164	156	113
Patents issued	119	116	136	167	154	164	379	278	397	153
DHS										
Inventions disclosed	na	na	na	NA	NA	NA	NA	10	32	7
Patent applications filed	na	na	na	NA	NA	NA	NA	0	2	2
Patents issued	na	na	na	NA	NA	NA	NA	1	2	1
DOI										
Inventions disclosed	6	14	9	6	4	5	7	7	4	5
Patent applications filed	17	12	8	6	3	2	5	7	8	7
Patents issued	7	13	5	9	9	5	6	1	4	5
NASA										
Inventions disclosed	696	775	1,485	1,612	1,678	1,749	1,514	1,324	1,412	1,722
Patent applications filed	152	166	231	207	202	142	127	122	141	144
Patents issued	159	128	155	189	133	85	68	90	93	129

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Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
DOT										
Inventions disclosed	2	0	0	0	4	3	2	3	3	1
Patent applications filed	3	0	0	2	5	3	2	0	1	1
Patents issued	0	0	0	0	2	0	3	2	1	1
VA										
Inventions disclosed	131	125	183	204	165	157	175	164	150	168
Patent applications filed	38	34	36	54	26	27	25	13	37	31
Patents issued	4	4	8	7	10	5	8	10	15	10
Licensing										
All 10 agencies										
All licenses, total active in the FY	4,391	6,063	6,497	7,567	9,577	10,186	10,352	11,098	10,926	13,542
Invention licenses	3,140	3,588	3,747	3,804	4,236	4,163	3,935	4,172	4,239	4,004
Other intellectual property licenses	1,254	2,475	2,771	3,775	5,341	6,023	6,405	6,972	6,730	9,121
USDA										
All licenses, total active in the FY	255	267	270	296	320	332	339	328	329	343
Invention licenses	255	267	270	296	320	332	339	328	329	343
Other intellectual property licenses	0	0	0	0	0	0	0	0	0	0
DOC										
All licenses, total active in the FY	40	41	101	125	133	111	222	29	40	41
Invention licenses	40	41	101	125	133	111	222	29	40	41
Other intellectual property licenses	0	0	0	0	0	0	0	0	0	0
DOD										
All licenses, total active in the FY	285	471	364	369	412	444	495	365	432	397
Invention licenses	283	350	361	364	406	438	460	351	386	341
Other intellectual property licenses	5	121	3	5	6	6	35	14	46	56
DOE										
All licenses, total active in the FY	2,005	3,459	3,687	4,345	5,677	5,916	5,842	6,196	5,752	6,224
Invention licenses	1,162	1,327	1,223	1,362	1,535	1,420	1,354	1,418	1,452	1,453
Other intellectual property licenses	843	2,132	2,464	2,983	4,142	4,496	4,488	4,748	4,300	4,771
EPA										
All licenses, total active in the FY	16	23	32	38	39	35	38	37	40	37
Invention licenses	16	23	32	38	39	35	38	37	40	37
Other intellectual property licenses	0	0	0	0	0	0	0	0	0	0
HHS										
All licenses, total active in the FY	1,367	1,356	1,423	1,424	1,532	1,535	1,418	1,675	1,584	1,941
Invention licenses	1,007	1,213	1,350	1,173	1,237	1,213	915	1,376	1,304	1,240
Other intellectual property licenses	360	143	82	251	295	322	460	352	327	683
DHS										
All licenses, total active in the FY	na	na	na	NA	NA	NA	NA	18	63	458
Invention licenses	na	na	na	NA	NA	NA	NA	0	0	0
Other intellectual property licenses	na	na	na	NA	NA	NA	NA	18	63	458



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Agency	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
HHS										
CRADAs, total active in the FY	498	470	427	220	215	164	284	453	457	447
Traditional CRADAs	289	261	254	119	117	92	206	295	284	300
Other collaborative R&D relationships	0	0	0	0	0	0	0	0	0	0
DHS										
CRADAs, total active in the FY	na	na	na	NA	NA	NA	NA	23	23	36
Traditional CRADAs	na	na	na	NA	NA	NA	NA	21	22	32
Other collaborative R&D relationships	na	na	na	NA	NA	NA	NA	3	1	3
DOI										
CRADAs, total active in the FY	56	52	51	61	70	82	170	170	248	436
Traditional CRADAs	41	42	51	45	49	31	20	33	36	29
Other collaborative R&D relationships	0	0	0	0	0	0	0	0	0	0
NASA										
CRADAs, total active in the FY	1	1	0	0	1	1	1	1	1	1
Traditional CRADAs	1	1	0	0	1	1	1	1	1	1
Other collaborative R&D relationships	1,053	2,659	3,579	3,987	4,025	4,275	3,812	4,076	4,507	4,246
DOT										
CRADAs, total active in the FY	82	92	96	0	57	59	36	23	22	22
Traditional CRADAs	78	80	96	0	55	59	36	23	0	0
Other collaborative R&D relationships	0	0	0	0	0	0	0	0	2	2
VA										
CRADAs, total active in the FY	2	2	11	13	14	37	82	221	623	895
Traditional CRADAs	2	2	11	13	14	33	74	207	581	833
Other collaborative R&D relationships	0	0	0	0	0	0	0	0	0	18

na = not applicable; NA = not available.

CRADA = Cooperative R&D Agreement; DHS = Department of Homeland Security; 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 = U.S. Department of Agriculture; VA = Department of Veterans Affairs.

NOTES: DHS started to operate in early 2003; it did not start to provide technology transfer statistics until FY 2008. Invention licenses refers to inventions which are patented or could be patented. Other intellectual property refers to intellectual property protected through mechanisms other than a patent (e.g., copyright). Total CRADAs refers to all agreements executed under CRADA authority (15 USC 3710a). Traditional CRADAs are collaborative R&D partnerships between a federal laboratory and one or more nonfederal organizations. (Nontraditional CRADAs are established for special purposes, such as material transfer or technical assistance that may result in protected information.) Federal agencies have varying authorities for other kinds of collaborative R&D relationships.

SOURCE: National Institute of Standards and Technology, *Federal Laboratory Technology Transfer, Fiscal Year 2010 Summary Report to the President and the Congress* (August 2012), <http://www.nist.gov/tpo/publications/index.cfm>.