

2023 Lung Cancer Screening Registry Report from the American College of Radiology

We are pleased to release the 2023 annual State Aggregate report for Lung Cancer Screening Registry. The PDF report contains the following:

1. Measures definition

2. Pre-exam measures aggregated by states

3. During-exam measures aggregated by states

4. Post-exam measures aggregated by states

Currently the Post-exam (outcome) measures provided within this report are limited to the Abnormal Interpretation Rate. Other measures such as Cancer Detection Rate or Positive Predictive Value are not available at the state aggregate level at this time. Some sites may have limited ability to fully capture outcome (tissue diagnoses) data and state performance may be misconstrued.

Aggregate measure data only reported for states where there are 5 or more sites. Less than 5 are indicated as NR (Not reported).

Measure Definitions

Appropriateness of screening by USPSTF criteria

Percent of screening population who are adults aged 55 to 80 years, have a 30 pack-year smoking history, and currently smoke or have quit within the past 15 years.

Smoking cessation offered

Percent of patients who are offered smoking cessation guidance.

Smoking cessation offered among current smokers

Percent of current smokers who are offered smoking cessation guidance.

Radiation exposure Mean CTDIvol - overall, and by BMI category

Mean Volumetrics CT Dose Index (CTDIvol) across all screening exams performed, across all screening exams performed on underweight patients (BMI<18.5), across all screening exams performed on normal weight patients (BMI of 18.5-24.9), across all screening exams performed on overweight patients (BMI of 25-29.9), and across all screening exams performed on obese patients (BMI of 30 or more).

Radiation exposure (DLP) - overall, and by BMI category

Mean Dose Length Product (DLP) across all screening exams performed, across all screening exams performed on underweight patients (BMI<18.5), across all screening exams performed on normal weight patients (BMI of 18.5-24.9), across all screening exams performed on overweight patients (BMI of 25-29.9), and across all screening exams performed on obese patients (BMI of 30 or more).

Abnormal Interpretation Rate, all exams

Percent of screening exams that have a Lung-RADS assessment of 3, 4a, 4b, or 4x (and lead to additional imaging or biopsy).

Abnormal Interpretation Rate, at baseline exam

Percent of baseline screening exams that have a Lung-RADS assessment of 3, 4a, 4b, or 4x (and lead to additional imaging or biopsy).

Abnormal Interpretation Rate, at annual exam

Percent of annual screening exams that have a Lung-RADS assessment of 3, 4a, 4b, or 4x (and lead to additional imaging or biopsy).

Lung Cancer Screening Statistics, Pre-Exam Measures – Screening Exams performed in 2023

				Appropriateness of screening by USPSTF criteria		Smoking cessation offered		Smoking cessation offered among current smokers	
Aggregation Level	Year	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Alabama	2023	49	14253	73.66%	(10499/14253)	74.83%	(10665/14253)	77.52%	(7284/9396)
Alaska	2023	13	2324	69.45%	(1614/2324)	27.62%	(642/2324)	27.17%	(353/1299)
Arizona	2023	25	6245	69%	(4309/6245)	70.39%	(4396/6245)	77.09%	(2837/3680)
Arkansas	2023	29	10400	70.76%	(7359/10400)	74.01%	(7697/10400)	75.63%	(5374/7106)
California	2023	75	14748	62.58%	(9230/14748)	34.64%	(5109/14748)	39.78%	(2799/7036)
Colorado	2023	42	9447	64.77%	(6119/9447)	49.92%	(4716/9447)	52.24%	(2427/4646)
Connecticut	2023	39	17598	68.89%	(12123/17598)	37.24%	(6553/17598)	42.46%	(4134/9737)
Delaware	2023	12	4202	69.59%	(2924/4202)	81.03%	(3405/4202)	79.59%	(1973/2479)
District of Columbia	2023	5	540	71.11%	(384/540)	63.33%	(342/540)	66.06%	(183/277)
Florida	2023	138	40042	66.18%	(26501/40042)	41.91%	(16780/40042)	45.47%	(9539/20979)
Georgia	2023	96	24942	69.38%	(17306/24942)	69.49%	(17331/24942)	81.03%	(12299/15179)
Hawaii	2023	8	2008	68.73%	(1380/2008)	31.08%	(624/2008)	42.62%	(537/1260)
Idaho	2023	19	2633	74.82%	(1970/2633)	79.53%	(2094/2633)	92.33%	(1156/1252)
Illinois	2023	92	38692	69.56%	(26913/38692)	79.49%	(30756/38692)	82.93%	(18549/22367)
Indiana	2023	92	31841	63.92%	(20353/31841)	46.25%	(14728/31841)	52.22%	(9471/18135)
Iowa	2023	54	12591	76.1%	(9582/12591)	71.18%	(8962/12591)	76.01%	(5909/7774)
Kansas	2023	43	10951	66.67%	(7301/10951)	70.29%	(7698/10951)	69.01%	(3855/5586)
Kentucky	2023	112	50698	59.5%	(30167/50698)	75.36%	(38208/50698)	73.97%	(20421/27609)
Louisiana	2023	30	9663	69%	(6667/9663)	67.26%	(6499/9663)	70.53%	(4555/6458)
Maine	2023	23	11960	73.43%	(8782/11960)	73.29%	(8766/11960)	74.73%	(5334/7138)
Maryland	2023	27	6319	78.65%	(4970/6319)	43.85%	(2771/6319)	48.41%	(1747/3609)
Massachusetts	2023	69	47719	73.7%	(35170/47719)	77.11%	(36797/47719)	79.06%	(21683/27425)
Michigan	2023	102	61248	72.31%	(44286/61248)	68.09%	(41705/61248)	69.66%	(24607/35325)

Lung Cancer Screening Statistics, Pre-Exam Measures – Screening Exams performed in 2023

				Appropriateness of screening by USPSTF criteria		Smoking cessation offered		Smoking cessation offered among current smokers	
Aggregation Level	Year	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Minnesota	2023	66	17310	63.78%	(11040/17310)	46.2%	(7997/17310)	65.57%	(6310/9624)
Mississippi	2023	22	10399	73.12%	(7604/10399)	68.24%	(7096/10399)	82.68%	(5195/6283)
Missouri	2023	51	27027	73.75%	(19932/27027)	63.53%	(17170/27027)	65.66%	(11031/16800)
Montana	2023	16	5854	70.14%	(4106/5854)	76.72%	(4491/5854)	81.11%	(2520/3107)
Nebraska	2023	6	3222	71.82%	(2314/3222)	82.06%	(2644/3222)	80.84%	(1325/1639)
Nevada	2023	13	3850	61.4%	(2364/3850)	80.26%	(3090/3850)	95.27%	(1992/2091)
New Hampshire	2023	22	8536	70.03%	(5978/8536)	57.28%	(4889/8536)	62.82%	(3021/4809)
New Jersey	2023	82	20243	59.02%	(11948/20243)	47.26%	(9567/20243)	56.25%	(5684/10104)
New Mexico	2023	<5	NR	NR	NR	NR	NR	NR	NR
New York	2023	153	68728	65.26%	(44853/68728)	60.45%	(41549/68728)	65.67%	(25627/39025)
North Carolina	2023	122	55557	69.97%	(38876/55557)	70.92%	(39401/55557)	73.98%	(24490/33103)
North Dakota	2023	9	3413	74.04%	(2527/3413)	19.46%	(664/3413)	30.22%	(582/1926)
Ohio	2023	157	69415	68.31%	(47416/69415)	65.5%	(45468/69415)	70.97%	(29480/41540)
Oklahoma	2023	17	5598	68.54%	(3837/5598)	34.85%	(1951/5598)	51.54%	(1695/3289)
Oregon	2023	32	13222	72.93%	(9643/13222)	47.83%	(6324/13222)	52.71%	(3553/6741)
Pennsylvania	2023	183	80707	68.74%	(55479/80707)	62.25%	(50244/80707)	67.9%	(32963/48544)
Rhode Island	2023	16	7807	75.09%	(5862/7807)	38.91%	(3038/7807)	36.45%	(1705/4678)
South Carolina	2023	62	27781	65.37%	(18161/27781)	44.08%	(12246/27781)	49.93%	(7501/15022)
South Dakota	2023	27	4413	78.7%	(3473/4413)	67.71%	(2988/4413)	74.55%	(1983/2660)
Tennessee	2023	60	21832	72.62%	(15854/21832)	58.82%	(12841/21832)	62.08%	(8364/13472)
Texas	2023	91	18627	68.05%	(12676/18627)	62.73%	(11685/18627)	67.41%	(7790/11557)
Utah	2023	5	1614	60.84%	(982/1614)	43.18%	(697/1614)	62.86%	(501/797)
Vermont	2023	8	4040	77.92%	(3148/4040)	71.14%	(2874/4040)	98.07%	(2285/2330)

Lung Cancer Screening Statistics, Pre-Exam Measures – Screening Exams performed in 2023

				Appropriateness of screening by USPSTF criteria		Smoking cessation offered		Smoking cessation offered among current smokers	
Aggregation Level	Year	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Virginia	2023	75	33526	68.28%	(22890/33526)	63.77%	(21381/33526)	64.8%	(12630/19491)
Washington	2023	52	25636	71.43%	(18313/25636)	42.98%	(11018/25636)	48.67%	(6516/13389)
West Virginia	2023	25	11050	70.97%	(7842/11050)	52.73%	(5827/11050)	56.13%	(4203/7488)
Wisconsin	2023	111	32698	66.6%	(21776/32698)	63.64%	(20809/32698)	67.85%	(11808/17404)
Wyoming	2023	<5	NR	NR	NR	NR	NR	NR	NR
LCSR	2023	2683	1016489	68.51%	(697103/1017520)	61.75%	(628318/1017520)	66.56%	(389239/584757)

Lung Cancer Screening Statistics, During Exam Measures – Screening Exams performed in 2023

			CTDIvol - Mean (mGy)					DLP - Mean (mGy-cm)				
Aggregation Level	# Facilities	# Screening Exams	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)
Alabama	49	14253	3.05	2.16	2.42	2.94	3.68	90.14	68.7	73.58	89.02	103.23
Alaska	13	2324	3.03	3	2.92	2.68	3.44	85.23	66.27	72.04	78.79	102.07
Arizona	25	6245	2.49	1.45	1.96	2.23	3.36	81.75	55.28	63.37	78	106.92
Arkansas	29	10400	2.99	2.55	2.63	2.82	3.61	99.38	83.49	85.82	97	115.36
California	75	14748	2.93	3.04	2.44	2.77	3.61	100.47	76.38	83.27	96.56	121.41
Colorado	42	9447	3.52	2.62	2.72	3.26	4.62	98.57	64.64	74.9	96.78	124.67
Connecticut	39	17598	2.42	1.7	2.05	2.13	2.94	74.84	52.78	57.61	70.72	90.55
Delaware	12	4202	3.33	2.01	2.84	3.26	3.71	93.91	62.9	78.85	90.56	106.07
District of Columbia	5	540	2.01	8.11	1.45	1.57	2.45	75.24	67.16	46.18	99.97	74.02
Florida	138	40042	3.11	2.18	2.61	3.12	3.7	88.69	65.86	76.32	88.31	102.56
Georgia	96	24942	2.96	2.24	2.53	2.82	3.48	89.43	70.15	76.89	86.25	102.7
Hawaii	8	2008	4.11	1.46	4.91	2.82	4.87	101.96	59.83	76.02	95.34	148.73
Idaho	19	2633	2.86	2.66	1.89	2.6	3.7	96.59	52.81	67.26	89.73	124.09
Illinois	92	38692	3.17	4.17	2.59	2.8	3.7	87.77	67.05	73.17	83.42	101.13
Indiana	92	31841	4.2	2.74	3.16	3.95	5.11	93.25	59.39	70.49	84.75	113.06
Iowa	54	12591	2.7	2.16	2.01	2.51	3.24	85.22	56.85	65.29	78.34	101.4
Kansas	43	10951	4.51	3.15	3.71	4.78	5.14	81.18	44.25	55.61	71.14	95.72
Kentucky	112	50698	11.77	7.73	11.64	12.31	12.79	85.01	62.89	71.51	80.14	97.96
Louisiana	30	9663	2.87	2.01	2.21	2.87	3.35	97.95	67.07	75.46	89.75	119.28
Maine	23	11960	2.48	2.29	2.3	2.33	2.74	81.52	75.57	70.51	75.59	91.53
Maryland	27	6319	2.76	1.75	2	2.49	3.51	76.02	51.82	59.95	70.94	90.84
Massachusetts	69	47719	3.64	2.05	2.67	3.46	4.47	86.16	61.51	66.48	80.49	103.05
Michigan	102	61248	3.12	2.19	2.37	2.89	3.73	98.54	64.58	75.7	91.11	117.5
Minnesota	66	17310	2.61	1.26	1.8	2.33	3.04	81.71	49.45	60.81	71.65	99.65

Lung Cancer Screening Statistics, During Exam Measures – Screening Exams performed in 2023

			CTDIvol - Mean (mGy)					DLP - Mean (mGy-cm)				
Aggregation Level	# Facilities	# Screening Exams	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)
Mississippi	22	10399	2.55	2.69	2.18	2.36	2.81	84.75	66.92	71.87	81.42	94.66
Missouri	51	27027	2.72	1.65	2.11	2.47	3.37	80.37	51.57	61.67	75.82	97.68
Montana	16	5854	2.61	2.16	2.46	2.57	2.94	84.74	80.71	75.95	84.21	94.64
Nebraska	6	3222	2.05	1.05	1.3	1.83	2.5	76.49	39.58	48.91	69.21	87.73
Nevada	13	3850	1.82	1.59	1.61	1.81	2.04	63.68	57.06	58	59.63	72.62
New Hampshire	22	8536	3.15	2.15	2.75	3.12	3.43	94.36	62.11	71.15	90.84	111.19
New Jersey	82	20243	3.42	1.99	2.69	3.02	4.08	97.12	72.64	79.07	93.3	113.24
New Mexico	<5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
New York	153	68728	2.88	2.08	2.22	2.59	3.37	93.08	68.49	72.69	85.79	107.14
North Carolina	122	55557	3.11	2.24	2.27	2.92	3.81	99.38	67.94	75.32	92.61	121.2
North Dakota	9	3413	2.34	1.08	1.4	1.9	3.12	80.17	40.03	50.71	67.77	103.37
Ohio	157	69415	3.45	2.26	2.8	3.4	3.97	93.14	67.48	77.08	89.89	105.95
Oklahoma	17	5598	3.49	2.18	2.66	3.71	3.97	111.88	75.72	89.96	111.69	129.77
Oregon	32	13222	2.9	2.39	2.04	2.63	3.71	97.62	62.7	71.7	89.19	123.65
Pennsylvania	183	80707	3.21	2.76	2.47	2.97	3.78	94.75	66.83	75.59	90.64	109.14
Rhode Island	16	7807	2.58	2.62	2.02	2.28	3.09	80.75	69.61	71.22	79.41	86.01
South Carolina	62	27781	3.23	2.55	2.64	3	3.84	94.98	67.04	75.56	88.68	110.12
South Dakota	27	4413	3.49	2.39	2.6	2.73	4.57	109.27	62.95	82.68	87.4	141.27
Tennessee	60	21832	2.82	2.25	2.26	2.66	3.54	87.23	63.53	71.07	86.31	106.49
Texas	91	18627	2.91	1.84	2.11	2.8	3.62	95.21	88.28	77.91	86.69	115.4
Utah	5	1614	3.8	1.81	3.35	2.87	5.31	104.27	64.86	83.8	105.07	124.52
Vermont	8	4040	3.16	2.11	2.37	2.94	3.98	118.85	83.83	92.54	111.22	146.34
Virginia	75	33526	2.3	1.8	1.9	2.37	2.81	71.75	53.29	62.87	70.52	87.2
Washington	52	25636	2.4	1.44	1.9	2.25	2.87	76.49	61.87	62.11	69.61	92.13

Lung Cancer Screening Statistics, During Exam Measures – Screening Exams performed in 2023

			CTDIvol - Mean (mGy)					DLP - Mean (mGy-cm)				
Aggregation Level	# Facilities	# Screening Exams	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)	Overall	underweight (BMI<18.5)	normal (BMI 18.5-24.9)	overweight (BMI 25.0-29.9)	obese (BMI 30 or greater)
West Virginia	25	11050	3.46	2.82	2.88	3.02	4.33	106.79	93.38	81.46	95.61	131.25
Wisconsin	111	32698	3.26	2.76	2.13	2.86	4.2	94.48	53.77	66.56	84.22	122.32
Wyoming	<5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
LCSR	2683	1016489	3.53	2.62	2.85	3.36	4.2	90.52	65.13	72.19	85.27	107.34

Lung Cancer Screening Statistics, Post-Exam Measures – Screening Exams performed in 2023

			Abnormal Interpretation Rate, baseline, annual, not indicated (%)		Abnormal Interpretation Rate, at baseline exam (%)		Abnormal Interpretation Rate, at annual exam (%)	
Aggregation Level	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Alabama	49	14253	13.23%	(1886/14253)	15.37%	(1152/7494)	10.73%	(722/6726)
Alaska	13	2324	11.45%	(266/2324)	13.54%	(150/1108)	9.19%	(110/1197)
Arizona	25	6245	12.91%	(806/6245)	16.21%	(640/3948)	6.94%	(154/2218)
Arkansas	29	10400	14.13%	(1469/10400)	17.01%	(1104/6492)	9.2%	(356/3871)
California	75	14748	10.82%	(1595/14748)	12.65%	(785/6205)	9.46%	(758/8011)
Colorado	42	9447	12.92%	(1221/9447)	15.43%	(788/5107)	9.78%	(411/4204)
Connecticut	39	17598	11.47%	(2019/17598)	15.04%	(1001/6656)	9.26%	(1000/10800)
Delaware	12	4202	10.54%	(443/4202)	13.82%	(257/1860)	7.91%	(185/2338)
District of Columbia	5	540	7.59%	(41/540)	8.14%	(24/295)	6.56%	(16/244)
Florida	138	40042	12.43%	(4978/40042)	15.41%	(2916/18919)	9.68%	(2022/20891)
Georgia	96	24942	11.19%	(2790/24942)	13.11%	(1565/11941)	9.39%	(1211/12890)
Hawaii	8	2008	9.46%	(190/2008)	10.39%	(145/1396)	7.39%	(45/609)
Idaho	19	2633	11.81%	(311/2633)	14.35%	(167/1164)	9.84%	(144/1464)
Illinois	92	38692	12.46%	(4822/38692)	14.85%	(2429/16353)	9.34%	(1834/19638)
Indiana	92	31841	12.05%	(3836/31841)	13.8%	(2275/16482)	10.05%	(1484/14759)
Iowa	54	12591	12.62%	(1589/12591)	17.25%	(675/3914)	10.28%	(821/7984)
Kansas	43	10951	11.3%	(1237/10951)	14.97%	(594/3969)	9.04%	(627/6934)
Kentucky	112	50698	13.06%	(6622/50698)	15.87%	(3912/24656)	10.4%	(2701/25961)
Louisiana	30	9663	11.77%	(1137/9663)	13.32%	(743/5578)	9.63%	(383/3978)
Maine	23	11960	11.16%	(1335/11960)	14.34%	(746/5203)	8.68%	(583/6714)
Maryland	27	6319	12.74%	(805/6319)	16.54%	(441/2667)	9.89%	(357/3611)
Massachusetts	69	47719	11.18%	(5337/47719)	14.73%	(1986/13482)	9.69%	(3010/31056)
Michigan	102	61248	10.51%	(6440/61248)	12.68%	(3431/27052)	8.76%	(2980/34007)

Lung Cancer Screening Statistics, Post-Exam Measures – Screening Exams performed in 2023

			Abnormal Interpretation Rate, baseline, annual, not indicated (%)		Abnormal Interpretation Rate, at baseline exam (%)		Abnormal Interpretation Rate, at annual exam (%)	
Aggregation Level	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Minnesota	66	17310	10.61%	(1837/17310)	13.69%	(927/6771)	8.46%	(870/10283)
Mississippi	22	10399	12.92%	(1344/10399)	17.76%	(617/3474)	10.47%	(720/6877)
Missouri	51	27027	12.47%	(3369/27027)	14.24%	(1177/8266)	10.34%	(1115/10788)
Montana	16	5854	12.71%	(744/5854)	15.04%	(460/3059)	10.12%	(281/2778)
Nebraska	6	3222	13.53%	(436/3222)	20.26%	(171/844)	11.14%	(265/2378)
Nevada	13	3850	9.56%	(368/3850)	10.85%	(178/1641)	8.84%	(130/1471)
New Hampshire	22	8536	10.98%	(937/8536)	14.57%	(474/3254)	8.78%	(461/5250)
New Jersey	82	20243	11.34%	(2295/20243)	13.14%	(1381/10508)	9.29%	(892/9604)
New Mexico	<5	NR	NR	NR	NR	NR	NR	NR
New York	153	68728	11.06%	(7604/68728)	13.49%	(3512/26029)	9.8%	(3528/36011)
North Carolina	122	55557	12.78%	(7099/55557)	14.78%	(3597/24338)	10.82%	(3267/30190)
North Dakota	9	3413	11.75%	(401/3413)	15.02%	(200/1332)	9.5%	(197/2074)
Ohio	157	69415	11.92%	(8273/69415)	14.38%	(4153/28888)	10.09%	(3993/39566)
Oklahoma	17	5598	10%	(560/5598)	12.84%	(312/2430)	7.47%	(232/3105)
Oregon	32	13222	11.1%	(1467/13222)	13.4%	(778/5808)	9.13%	(648/7096)
Pennsylvania	183	80707	11.7%	(9439/80707)	14.73%	(5156/35009)	9.21%	(4014/43598)
Rhode Island	16	7807	11.07%	(864/7807)	12.7%	(449/3536)	9.72%	(414/4260)
South Carolina	62	27781	12.1%	(3361/27781)	14.25%	(1888/13248)	9.97%	(1421/14259)
South Dakota	27	4413	8.86%	(391/4413)	9.66%	(199/2060)	7.87%	(184/2337)
Tennessee	60	21832	13%	(2838/21832)	14.7%	(1380/9386)	11.71%	(1451/12392)
Texas	91	18627	13.15%	(2450/18627)	14.65%	(1371/9359)	11.16%	(862/7727)
Utah	5	1614	13.57%	(219/1614)	12.72%	(71/558)	10.66%	(39/366)
Vermont	8	4040	11.96%	(483/4040)	15.01%	(196/1306)	10.54%	(287/2722)

Lung Cancer Screening Statistics, Post-Exam Measures – Screening Exams performed in 2023

			Abnormal Interpretation Rate, baseline, annual, not indicated (%)		Abnormal Interpretation Rate, at baseline exam (%)		Abnormal Interpretation Rate, at annual exam (%)	
Aggregation Level	# Facilities	# Screening Exams	Rate	Num/Den	Rate	Num/Den	Rate	Num/Den
Virginia	75	33526	11.91%	(3994/33526)	14.2%	(2102/14805)	10.11%	(1867/18467)
Washington	52	25636	12.07%	(3093/25636)	14.61%	(1564/10705)	10.23%	(1391/13602)
West Virginia	25	11050	13.19%	(1457/11050)	15.71%	(977/6220)	9.81%	(462/4708)
Wisconsin	111	32698	10.28%	(3362/32698)	12.96%	(1807/13948)	8.2%	(1501/18301)
Wyoming	<5	NR	NR	NR	NR	NR	NR	NR
LCSR	2683	1016489	11.83%	(120327/1017520)	14.37%	(63181/439753)	9.7%	(52701/543520)