北京林业大学

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1951

10 79

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12

39 2015 ESI 1%

2012 4

56 26890

31

20

96% 60% 1915

1371 750 480

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46 47

25 24 21

49.23

[2013]25 2016

1. 2016 8 31

2.

2016 2016 9 13 2016 10 20

38 1949 33.68%

2016 9 29 2016 10 24 96

2016 5787 2015 5700

87 1.53%

1-1

1-1 2014

		%			
	276	4.77	48	228	0.21
	258	4.46	111	147	0.

	%			
93	1.61	58	35	1.66
92	1.59	25	67	0.37
91	1.57	19	72	0.26
88	1.52	62	26	2.38
83	1.43	16	67	0.24
82	1.42	66	16	4.13
81	1.40	56	25	2.24
79	1.37	31	48	0.65
79	1.37	12	67	0.18
77	1.33	44	33	1.33
76	1.31	24	52	0.46
75	1.30	50	25	2.00
73	1.26	26	47	0.55
73	1.26	21	52	0.40
72	1.24	22	50	0.44
72	1.24	57	15	3.80
72	1.24	36	36	1.00
70	1.21	20	50	0.40
70	1.21	32	38	0.84
67	1.16	29	38	0.76
66	1.14	13	53	0.25
65	1.12	25	40	0.63
62	1.07	40	22	1.82
60	1.04	21	39	0.54
59	1.02	14	45	0.31
56	0.97	1	55	0.02
56	0.97	20	36	0.56
56	0.97	13	43	0.30
56	0.97	33	23	1.43
54	0.93	22	32	0.69
53	0.92	16	37	0.43
51	0.88	11	40	0.28
51	0.88	40	11	3.64
47	0.81	26	21	1.24
45	0.78	18	27	0.67
43	0.74	8	35	0.23
42	0.73	20	22	0.91
37	0.64	23	14	1.64
36	0.62	13	23	0.57
36	0.62	14	22	0.64
28	0.48	7	21	0.33

		%			
	27	0.47	17	10	1.70
	26	0.45	6	20	0.30
	24	0.41	9	15	0.60
	23	0.40	8	15	0.53
	1	0.02	0	1	0.00
	5787	**100.00**	**2351**	**3436**	**0.68**

2016 31

1074 18.56%

10.89% 10.04%

6.03% 5.69% [1] 2353

40.66% [2] 743

12.84% 1098

18.97% 1-3

1

12 / /

2

1-3 2016

	%		%
1074	18.56	99	1.71
630	10.89	83	1.43
581	10.04	79	1.37
349			

1-4 2016

	%		%
562	18.68	10	0.33
494	16.42	6	0.20
379	12.60	6	0.20
260	8.64	5	0.17
187	6.22	5	0.17
157	5.22	4	0.13
124	4.12	3	0.10
112	3.72	3	0.10
105	3.49	3	0.10
103	3.42	2	0.07
85	2.83	2	0.07
81	2.69	2	0.07
69	2.29	2	0.07
55	1.83	2	0.07
34	1.13	2	0.07
29	0.96	1	0.03
19	0.63	1	0.03
18	0.60	1	0.03
18	0.60	1	0.03
15	0.50	1	0.03
14	0.47	1	0.03
12	0.40	1	0.03
11	0.37	1	0.03

2016 765

20

1-5 2016

	1801	152	11.85		164	119	1.38
	1472	131	11.24		162	120	1.35
	1107	96	11.53		157	51	3.08
	1099	88	12.49		142	75	1.89
	912	92	9.91		140	95	1.47
	892	99	9.01		136	45	3.02
	854	70	12.20		134	54	2.48
	842	83	10.14		132	81	1.63
	730	56	13.04		126	93	1.35
	713	379	1.88		125	72	1.74
	670	72	9.31		116	27	4.30
	648	164	3.95		116	113	1.03
	625	135	4.63		101	66	1.53
	582	59	9.86		101	82	1.23
	575	197	2.92		96	79	1.22
	562	72	7.81		80	76	1.05
	545	73	7.47		79	65	1.22
	543	73	7.44		77	26	2.96
	522	77	6.78		73	51	1.43
	505	56	9.02		70	67	1.04
	500	91	5.49		69	62	1.11
	431	43	10.02		69	70	0.99
	397	36	11.03		61	60	1.02
	272	37	7.35		60	56	1.07
	251	183	1.37		55	53	1.04
	241	196	1.23		50	42	1.19
	236	278	0.85		49	47	1.04
	224	79	2.84		46	56	0.82
	201	148	1.36		30	28	1.07
	191	139	1.37		30	36	0.83
	190	101	1.88		28	23	1.22
	172	99	1.74		25	24	1.04
	164	118	1.39		2	1	2.00

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÷ ×100%

2014 1 = +

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2016 8 31 2016

5787 5211 90.05%

45.19% 22.31% 13.95%

2-1

2-1 2016

		%
	2615	45.19
	1291	22.31
	807	13.95
	278	4.80
	178	3.08
	42	0.73
	576	9.95
	90.05%	

1.

2016

15 90.50%

90.05% 2-2

2-2 2016

2-3 201649

	%	%	%	%	%	%	%
	70.04	4.22	22.36	0.42	0.00	0.42	2.53
	66.83	12.93	12.93	0.24	0.49		

		%
148	145	97.97
88	86	97.73
42	41	97.62
81	79	97.53
73	71	97.26
72	70	97.22
59	57	96.61
56	54	96.43
54	52	96.30
27	26	96.30
73	70	95.89
72	69	95.83
119	114	95.80
183	175	95.63
135	129	95.56
77	73	94.81
75	71	94.67
37	35	94.59
36	34	94.44
120	111	92.50
92	85	92.39
26	24	92.31
51	47	92.16
36	33	91.67
152	139	91.45
197	180	91.37
196	179	91.33
23	21	91.30
45	41	

			%
	24	21	87.50
	70	61	87.14
	65	56	86.15
	79	68	86.08
	91	78	85.71
	56	48	85.71
	28	24	85.71
	164	135	82.32
	66	54	81.82
	60	49	81.67
	379	308	81.27
	47	38	80.85
	56	45	80.36
	79	63	79.75
	83	65	78.31
	95	72	75.79
	278	204	73.38
	1	0	0.00
	5787	**5211**	**90.05**

2.

2-5

40.00%

70.00%

2-5 2016 64

	%	%	%	%	%	%	%
	73.74	3.03	20.20	0.00	0.00	1.01	2.02
	73.28	15.27	7.63	1.53	1.53	0.00	0.76
	72.13	11.48	11.48	0.55	0.00	0.00	4.37
	67.57	8.11	18.92	0.00	0.00	0.00	5.41
	67.33	3.96	25.74	0.99	0.00	0.00	1.98
	63.64	25.00	6.82	1.14	1.14	0.00	2.27
	63.51						

%	%	%	%	%	%	%
61.33	14.67	14.67	0.00	1.33	2.67	5.33
60.76	10.13	7.59	1.27	6.33	0.00	13.92
60.17	21.19	5.93	11.02	1.69	0.00	0.00
59.09	10.61	6.06	3.03	1.52	1.52	18.18
58.49	7.55	20.75	1.89	1.89	0.00	9.43
58.33	19.44	5.56	4.17	0.00	0.00	12.50
56.16	5.48	31.51	1.37	0.00	1.37	4.11
55.42	8.43	3.61	2.41	8.43	0.00	21.69
52.38	21.43	16.67	0.00	7.14	0.00	2.38
51.85	20.00	20.00	2.22	1.48	0.00	4.44
50.75	25.37	10.45	2.99	1.49	0.00	8.96
50.55	8.79	10.99	6.59	7.69	1.10	14.29
50.00	11.11	0.00	2.78	22.22	5.56	8.33
50.00	2.78	41.67	0.00	0.00	0.00	5.56
48.21	16.07	10.71	14.29	7.14	0.00	3.57
48.20	10.79	21.58	6.47	3.60	0.00	9.35
47.37	9.47	8.42	3.16	7.37	0.00	24.21
47.14	12.86	20.00	7.14	0.00	0.00	12.86
45.71	18.57	11.43	1.43	12.86	0.00	10.00
44.19	30.23	6.98	6.98	0.00	0.00	11.63
43.75	28.13	5.21	0.00	13.54	0.00	9.38
43.43	21.21	11.11	5.05	16.16	1.01	2.02
42.37	45.76	5.08	1.69	0.00	1.69	3.39
41.46	16.46	12.20	3.05	9.15	0.00	17.68
41.33	14.80	13.78	3.57	16.33	1.53	8.67
40.22	31.52	8.70	1.09	10.87	0.00	7.61
39.73	28.77	21.92	4.11	2.74	0.00	2.74
38.89	33.33	11.11	3.70	7.41	1.85	3.70
38.33	22.50	27.50	0.83	3.33	0.00	7.50
38.27	27.16	25.93	2.47	1.23	2.47	2.47
38.26	20.84	11.87	4.75	5.01	0.53	18.73
37.97						

	%	%	%	%	%	%	%
	34.78	34.78	4.35	8.70	8.70	0.00	8.70
	33.93	10.71	41.07	0.00	0.00	0.00	14.29
	33.33	43.14	15.69	0.00	0.00	0.00	7.84
	32.93	40.24	12.20	1.22	1.22	1.22	10.98
	32.73	19.78	11.51	2.16	6.83	0.36	26.62
	31.91	29.79	17.02	0.00	0.00	2.13	19.15
	29.20	34.51	10.62	1.77	11.50	0.00	12.39
	27.92	44.16	7.11	3.05	5.08	4.06	8.63
	26.67	53.33	2.22	4.44	2.22	2.22	8.89
	25.93	51.85	3.70	11.11	3.70	0.00	3.70
	23.68	38.16	15.79	1.32	7.89	1.32	11.84

2.

3008 46.28%

1.

2-7

92.09% 89.58%

13

90.05%

2353 2084

88.57% 743

675 90.85%

2-7 2016

			%
	1074	989	92.09
	4713	4222	89.58
	4	4	100.00
	41	39	95.12
	49		

			%
	266	231	86.84
	69	59	85.51
	349	293	83.95
	12	10	83.33
	12	10	83.33
	108	87	80.56
	57	39	68.42
	2353	2084	88.57
	743	675	90.85

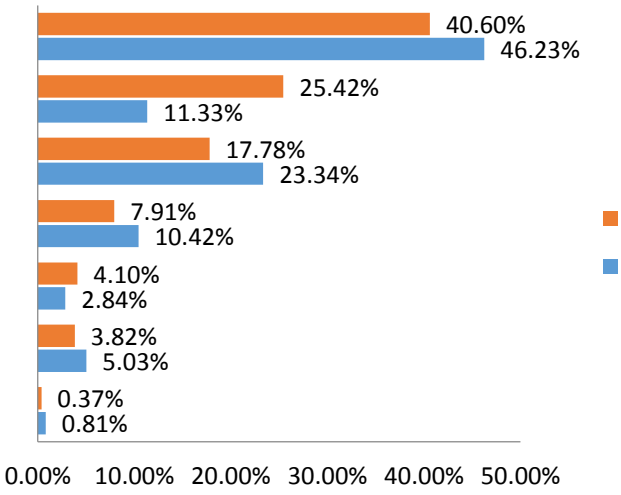
2.

25.42%

14 4.10%

40.60% 17.78% 7.91% 3.82%

0.37% 2-3



2-3 2016

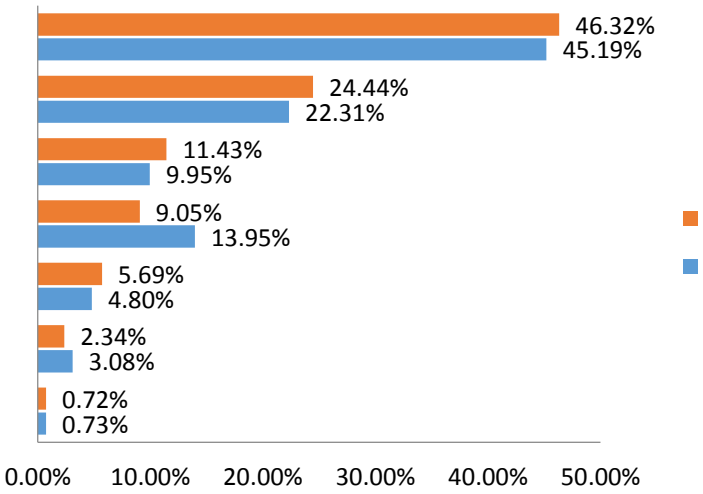
3.

2016 2353 46.32%

24.44%

2.34% 0.72%

2-4



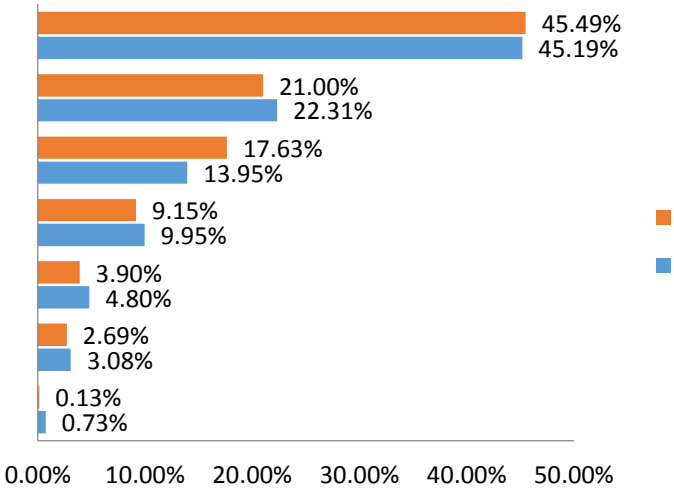
2-4 2016

4.

743 45.49%

21.00%

2-5



2-5 2016

1.

38.55%

32.18% 23.21%

20.11% 2-8

2-8 2016

%

		%
	14	0.36
	12	0.31
	3	0.08
	2	0.05
	3906	**100**

2.

2-9

93.77%

52.66%

928 44.26%

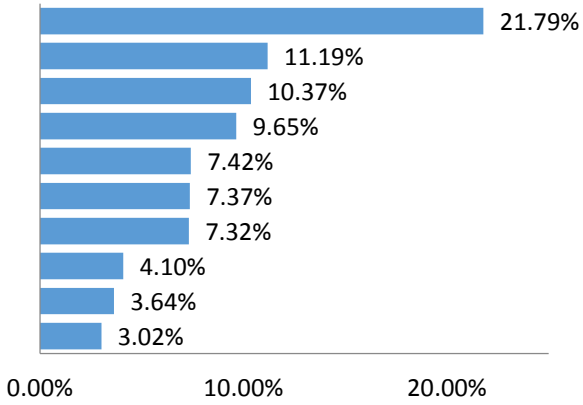
2-9 2016

	793	**52.66%**	325	35.83%	34	4.33%	152	21.50%	1304	511	60.81%
	39	2.59%	118	**13.01%**	1	0.13%	22	3.11%	180	62	65.56%
	440	29.22%	327	36.05%	737	**93.77%**	161	22.77%	1665	928	44.26%
	234	15.54%	137	15.10%	14	1.78%	372	**52.62%**	757	385	49.14%
	1506	100.00%	907	100.00%	786	100.00%	707	100.00%	3906		

2-6

21.79%

11.19%

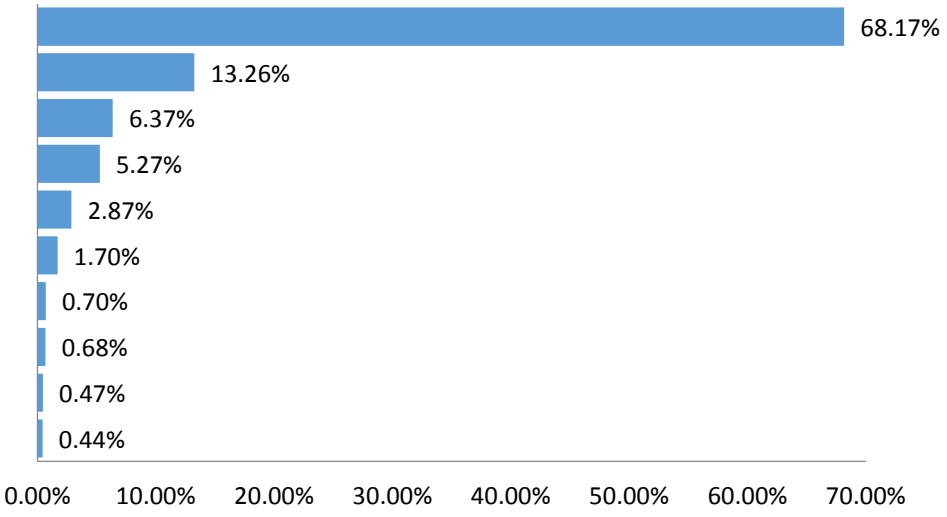


2-6 2016

2016

68.17% 13.26% 6.37%

2-7



2-7 2016

2016 807

211 985 245 985 209 197

30.36% 25.90% 24.41% 2-8

2-8 2016

2016 2-10

2-10 2016

		40		3
		37		3
				3

		9		2
		8		2
		7		2
		6		2

381

1.

381

326 85.56% 55 14.44%

2-9 2-10

92.86%

2-9 2016 **2-10**

-2016

2

2016 66.67%

2016

2-11

2-11 2016

-2016

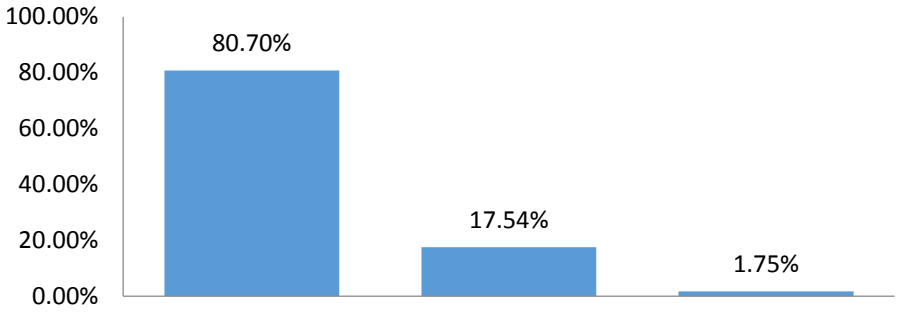
2016

57

1. [5]

79.31%

18.97% 2-13



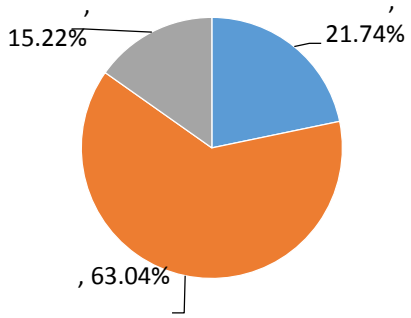
2-13 2016

-2016

2.

2-14

84.78%



2-14

-2016

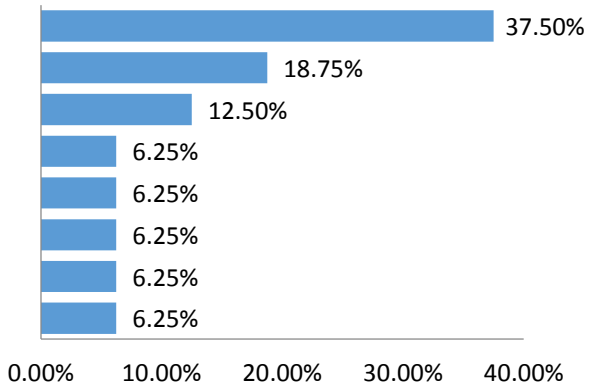
5 /

100%

2016 42 0.73%

2016

37.50% 18.75% 12.50% 2-15

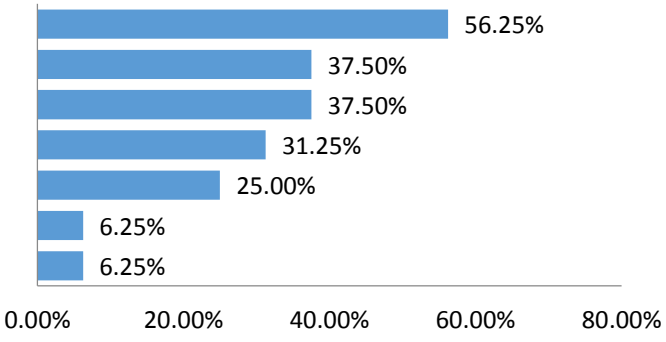


2-15 2016

6 / /

56.25% 37.50%

37.50% 2-16



2-16 2016

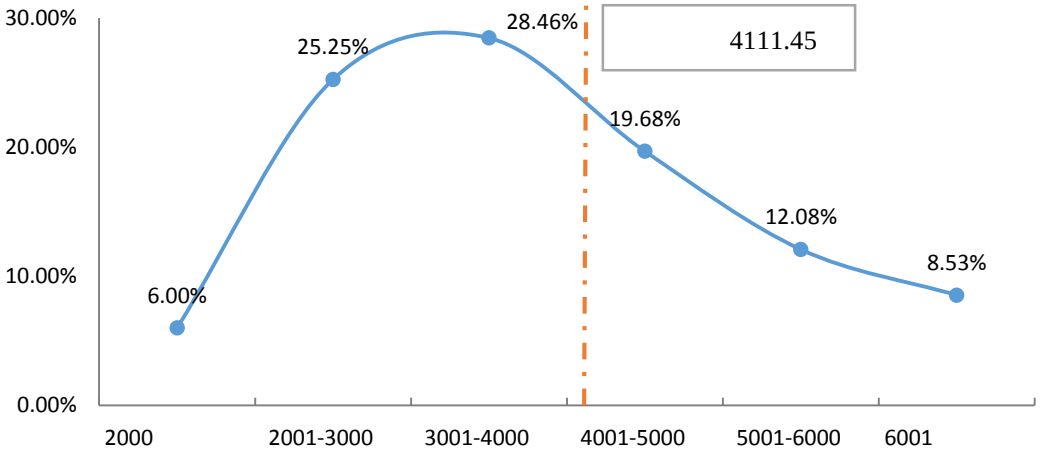
-2016

6

/ 100%

2016 4111.45

3001-4000 28.46% 2001-3000 25.25% 3-1



3-1 2016

-2016

5111.60 /

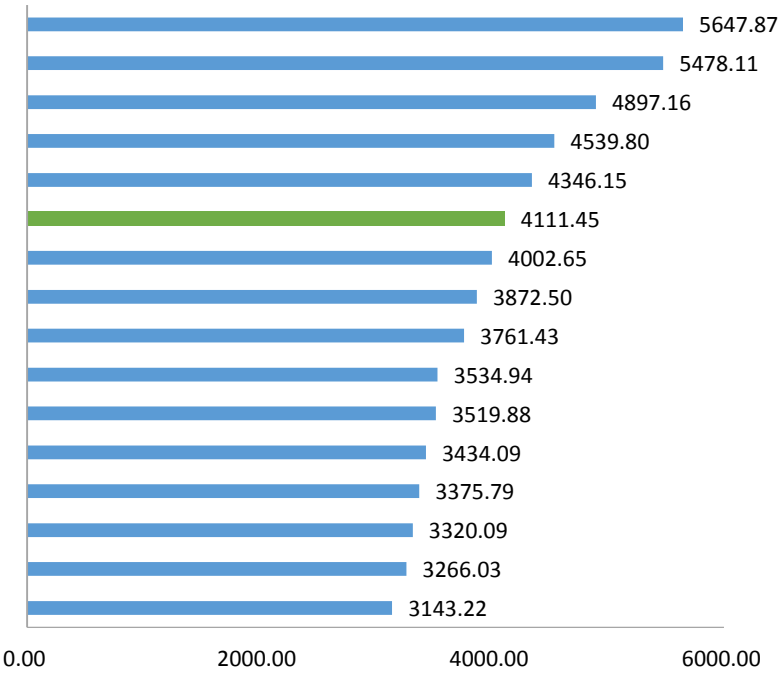
4687.41 / 4329.81 / 4269.05

/ 3-2

3-2 2016

-2015

2016



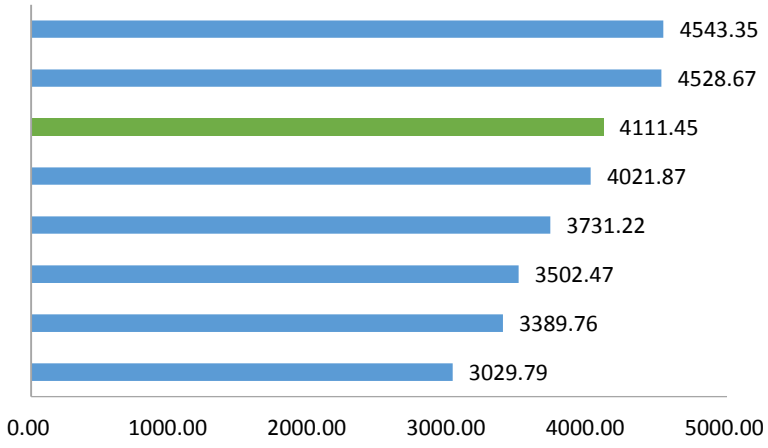
3-3 2016 /

20

-2016

2016

4543.55 4528.67 3-4



3-4 2016

1. 20

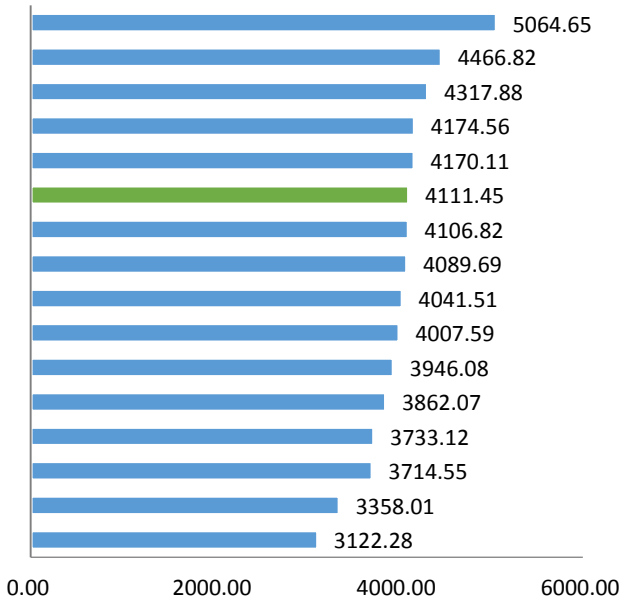
2.

-2016

2016

5064.65

3122.28 / 3-5



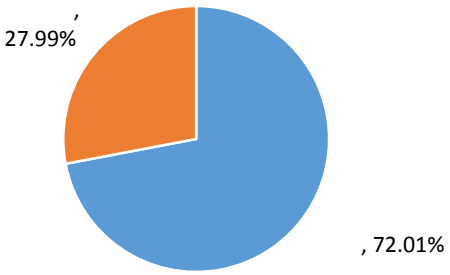
3-5 2016 /

20

-2016

2016 72.01%

3-6



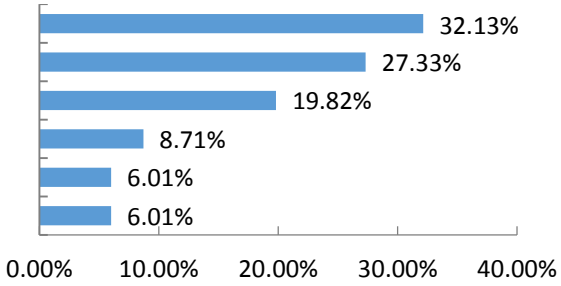
3-6 2016

-2016

333

3-7 32.13%

27.33%

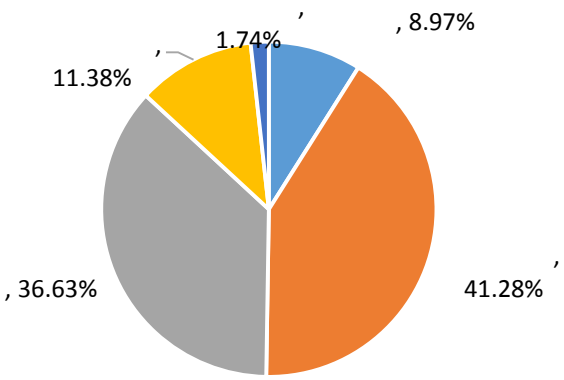


3-7 2016

-2016

2016 88 68%

8 97% 41 28% 3-8



3-8 2016

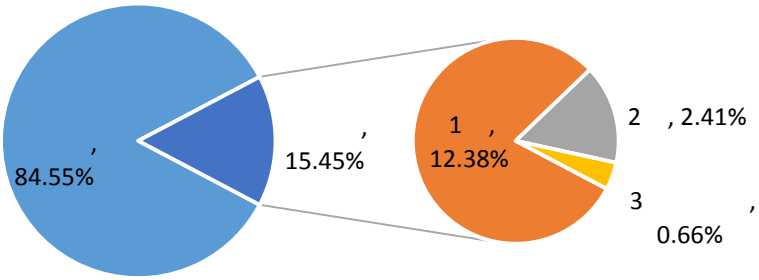
= + +

-2016

7

3-9 84.55%

7 = 1 / *100.00% =100.00%-



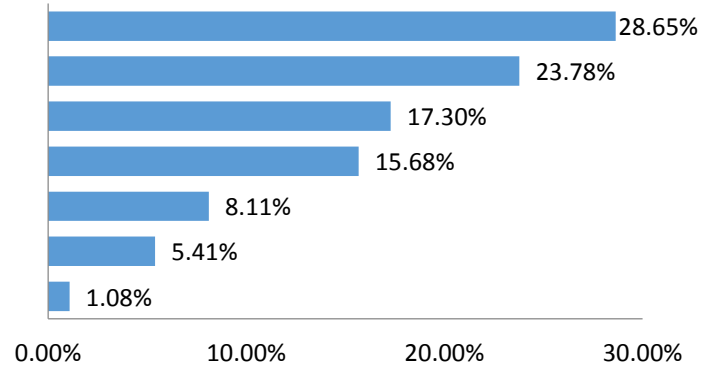
3-9 2016

-2015

8 185

28.65%

23.78% 3-10



3-10 2016

-2016

2016

8 /

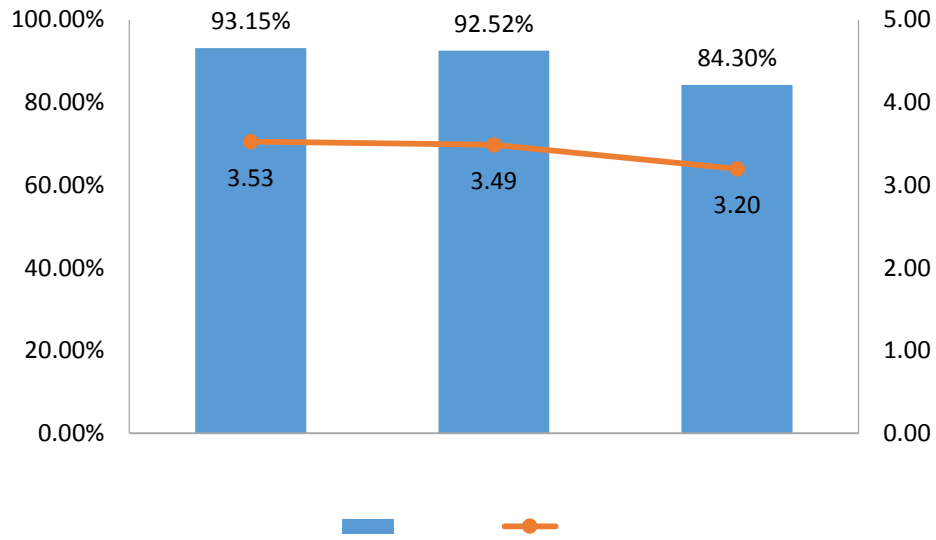
100%

1-5 3-11 2016

93.15%

92.52% 84.30%

3.00



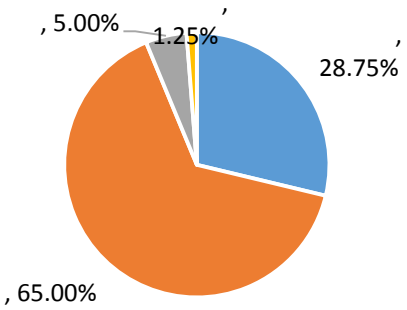
3-11 2016

= + +

-2016

98.75%

65.00% 3-12



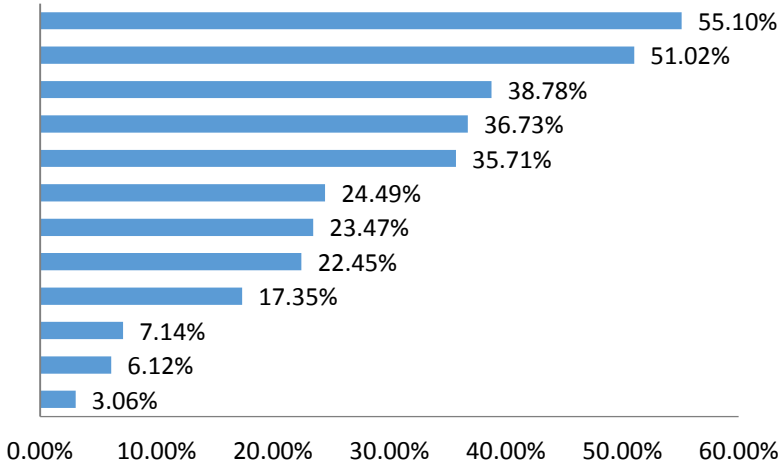
3-12 2016

= + +

-2016

2016 55.10%

51.02% 38.78% 3-13



3-13 2016

/

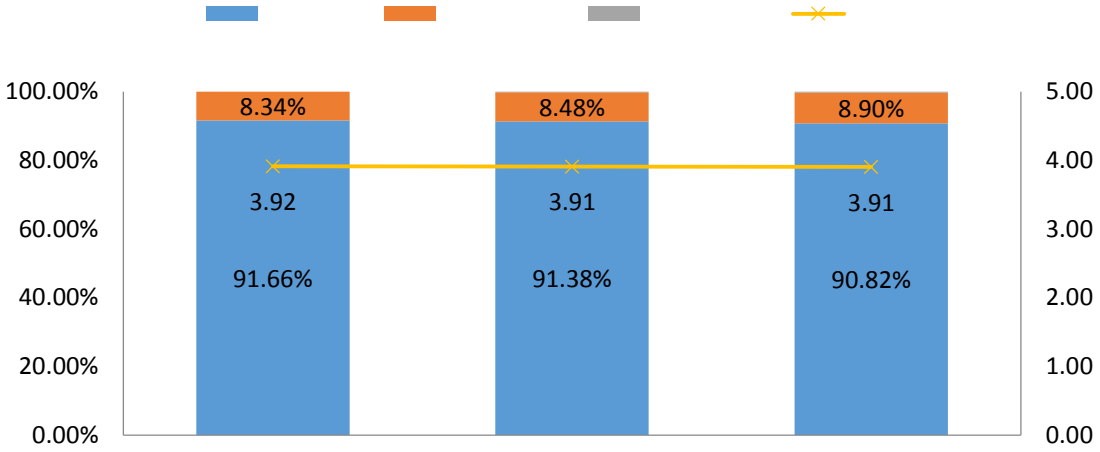
100%

-2016

91.66% 91.38% 90.82%

90%

3.9 4 3-14

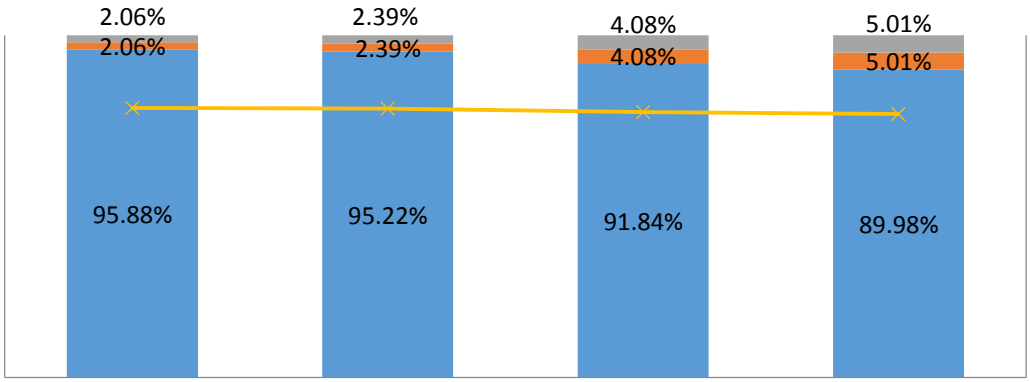


3-14

= + 1-4 1= 4=

94%

3.94 4 3-15

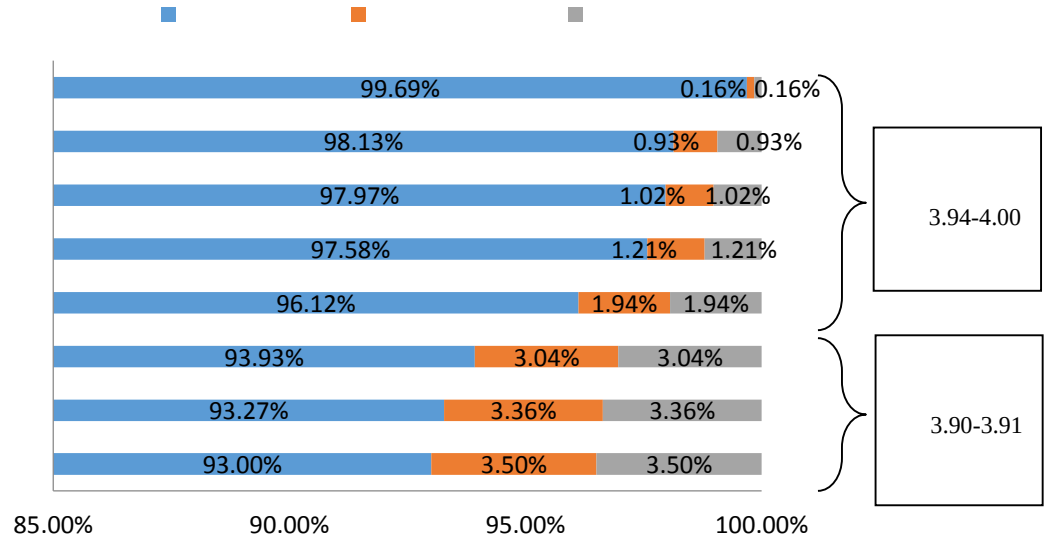


3-15

= + 1-4 1= 4=

96%

4.00 4 3-16


99.69%
0.16%
0.16%
98.13%
0.93%
0.93%
97.97%
1.02%
1.02%
97.58%
1.21%
1.21%
96.12%
1.94%
1.94%
93.93%
3.04%
3.04%
93.27%
3.36%
3.36%
93.00%
3.50%
3.50%
85.00%
90.00%
95.00%
100.00%
3.94-4.00
3.90-3.91

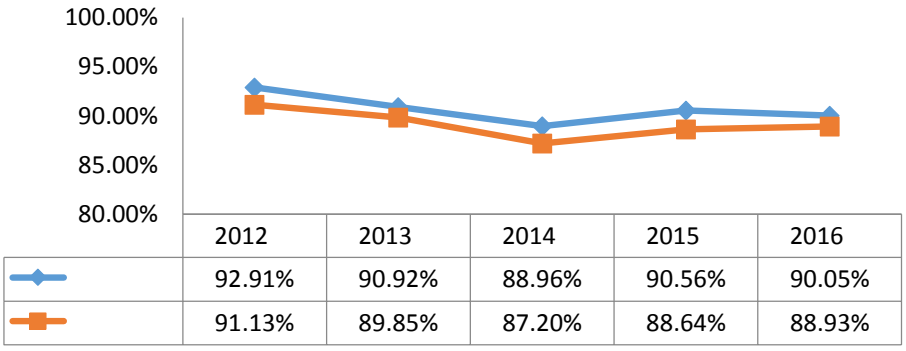
3-16

= + 1-4 1= 4=

90.00%

87.00%

4-1



	2012	2013	2014	2015	2016
	92.91%	90.92%	88.96%	90.56%	90.05%
	91.13%	89.85%	87.20%	88.64%	88.93%

4-1 2012-2016

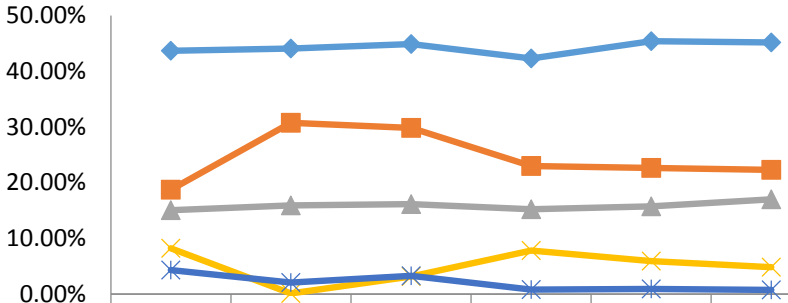
42.00%

15.00%

2016 17.02%

2012

4-2



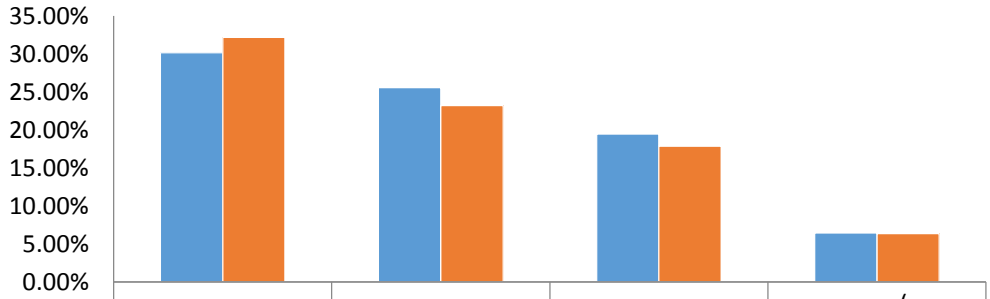
	2011	2012	2013	2014	2015	2016
	43.68%	44.06%	44.87%	42.33%	45.40%	45.19%
	18.72%	30.76%	29.81%	23.00%	22.61%	22.31%
	15.03%	15.93%	16.12%	15.22%	15.74%	17.02%
	8.18%	0.10%	3.15%	7.82%	5.93%	4.80%
	4.30%	2.06%	3.27%	0.78%	0.88%	0.73%

4-2 2011-2016

2015 -2016

55.00% 17.00%

4-3



				( )
2015	30.18%	25.59%	19.45%	6.45%
2016	32.18%	23.21%	17.87%	6.37%

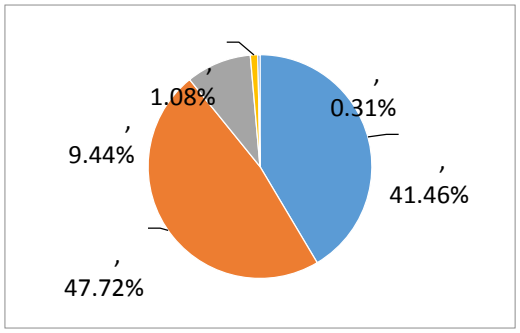
4-3 2015-2016

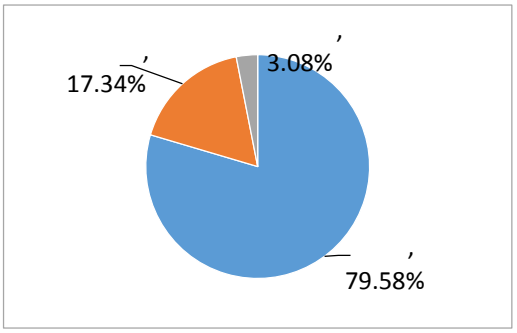
2016 9

5-1 5-2 98.61%

79.58% 17.34%

3.08%





5-1 2016 **5-2 2016**

-2016

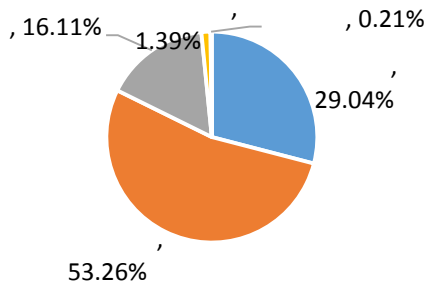
2016 98 41%

29 04% 53.26%

5-3

9 = +

+



5-3 2016

= + +

-2016

96.00%

100.00% 4.00

5-1

5-1 2016

	100.00%	4.01	98.63%	4.15
	100.00%	4.19	98.09%	4.00
	100.00%	4.21	98.06%	4.06
	100.00%	4.06	97.96%	4.05
	100.00%	4.20	97.78%	4.10
	99.08%	3.93	97.40%	4.05
	98.89%	4.18	96.12%	4.16
	98.77%	4.11	96.04%	4.20
	98.67%	4.08	*100.00%*	*4.89*
	98.67%	4.24	*100.00%*	*4.14*

1.

2. = + +

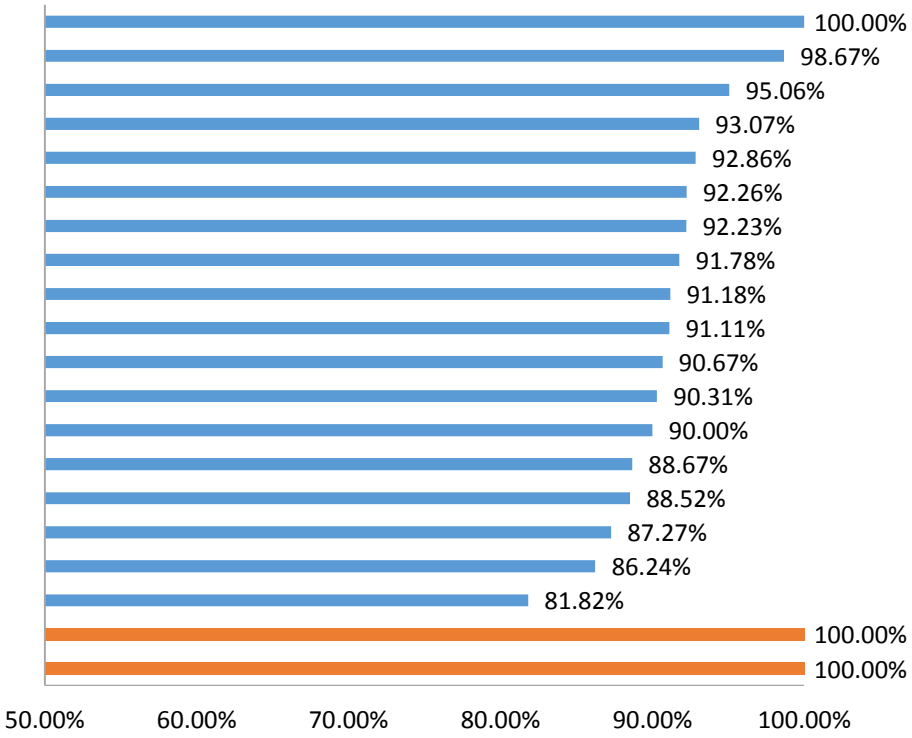
-2016

90.61%

81%

100.00% 98.67% 95.06%

5-4



5-4 2016

1.

2. = + +

-2016

10

5

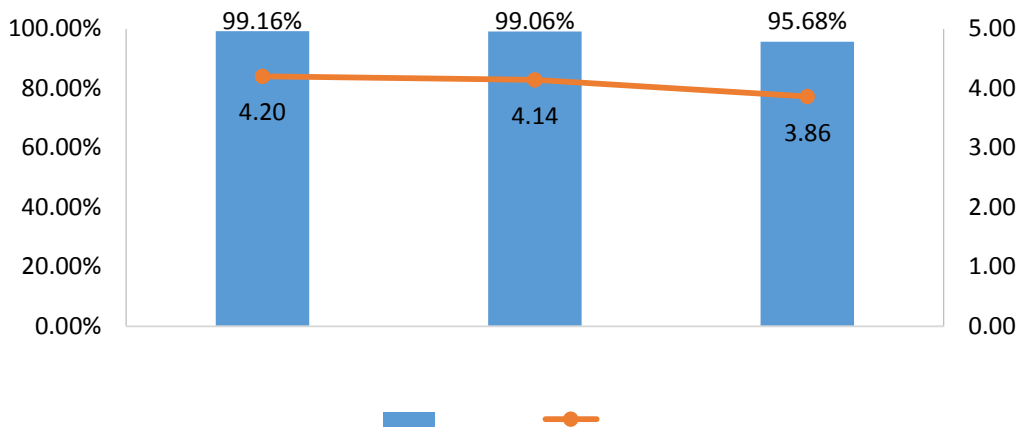
5 1

99%

4.00 5-5

10 =

+ +



5-5 2016

-2015

3.70-4.40

4.38

431

4.05

5-2

5-2 2016

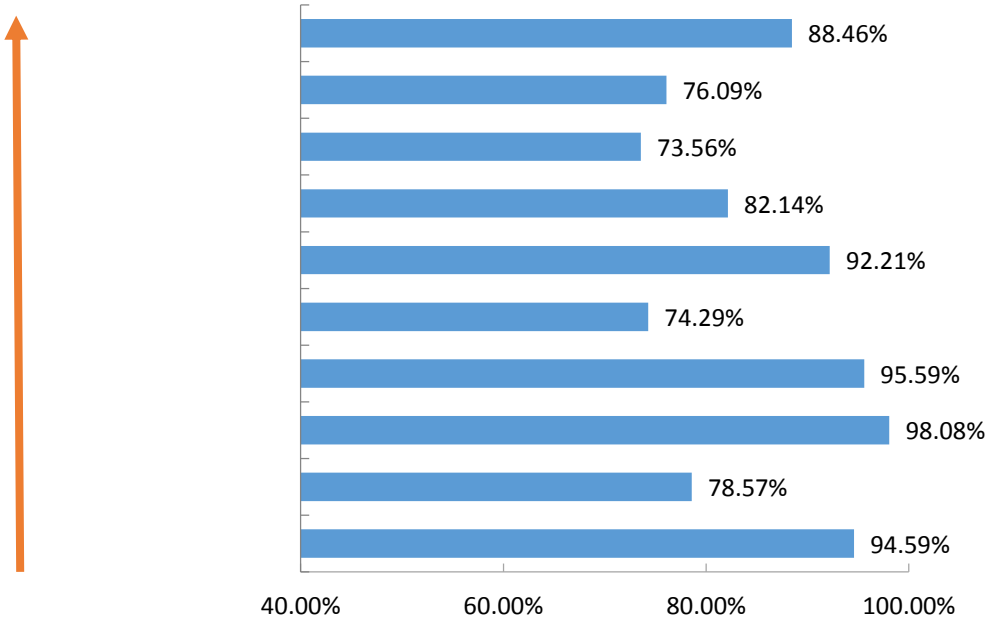
	4.38	4.31	3.92
	4.31	4.24	4.01
	4.28	4.16	3.99
	4.27	4.21	3.97
	4.26	4.06	3.76
	4.25	4.22	3.83
	4.25	4.20	3.98
	4.24	4.13	3.86
	4.23	4.21	3.85
	4.22	4.14	3.76
	4.22	4.14	3.86
	4.22	4.16	4.05
	4.17	4.08	3.83
	4.15	4.11	3.80
	4.15	4.07	3.85
	4.15	4.07	3.84
	4.09	4.05	3.79
	4.07	4.06	3.76
	4.78	*4.89*	*4.67*

	4.21	*4.21*	*4.07*

-2016

70.00%

88.46% 76.09% 73.56% 5-6



5-6

1. 10

2. = + +

-2016

2016 98.61% 79.58%

98.41%

90.61%

95.00%

/ /

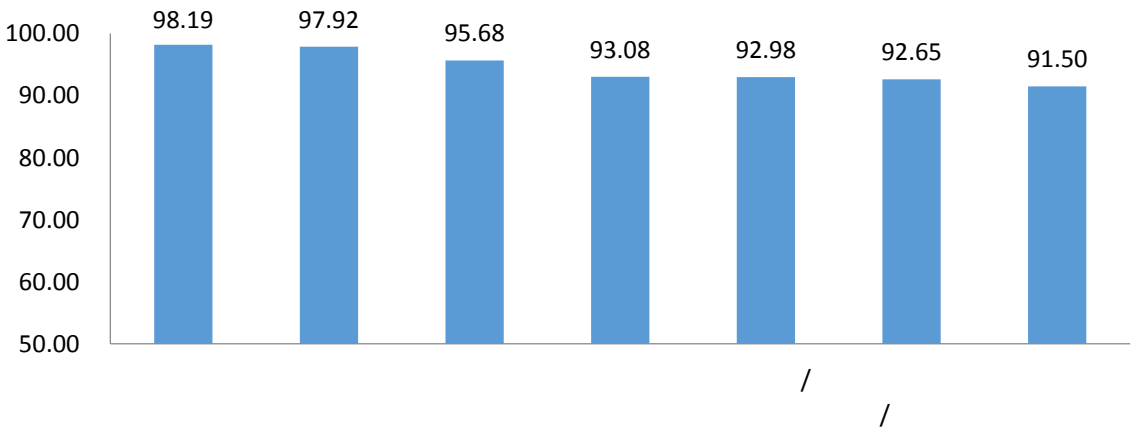
11

2016

91.00%

98.19%

5-7



5-7 2016 %

-2016

11 =

\+ \+

/

90.00% 5-8

5-8 2016

-2016

5-9

96.81%

A

2016

5-3

1 100%

2

6

5-3 2014-2016

	2014	2015	2016
	84.58%	85.15%	84.31%
	77.71%	75.78%	85.69%
	77.73%	82.06%	85.32%
	83.56%	81.86%	85.49%
	87.48%	89.03%	89.72%
	85.42%	81.49%	88.65%
	80.34%	93.35%	88.71%

	2014	2015	2016
	88.17%	82.51%	91.22%
	92.37%	90.49%	90.26%
	87.76%	88.12%	92.45%
	90.75%	91.12%	90.70%
	95.63%	97.74%	95.52%
	90.49%	86.63%	94.06%
	86.95%	89.99%	89.52%
	86.10%	88.44%	92.34%

1.2014 2015

1 = / 100%

2 = + + + /4

2.

5-3

2016

2016

1

2016 105 2015

2

QQ

2015 10 2016 5 174 459126

3

20

2015 2016

3000 305

12000 3 1

4

2015

10

5

6

2016 444

35.52 2016 267

300 8.01

7

2016

6 600

2014 2016 87.2% 88.65% 88.93%

87.06% 88.1% 88.57%

89.44% 90.64% 90.85%

2016

2014

2015

2016

1

2

3

2000

1000

4 2016 8

2016

		%		%	%
	710	12.27	180	9.24	25.35
	577	9.97	209	10.72	36.22
	536	9.26	196	10.06	36.57
	479	8.28	150	7.70	31.32
	410	7.08	155	7.95	37.80
	338	5.84	101	5.18	29.88
	330	5.70	103	5.28	31.21
	318	5.50	75	3.85	23.58
	276	4.77	109	5.59	39.49
	258	4.46	110	5.64	42.64
	237	4.10	84	4.31	35.44
	235	4.06	77	3.95	32.77
	215	3.72	90	4.62	41.86
	204	3.53	81	4.16	39.71
	200	3.46	75	3.85	37.50
	191	3.30	73		

37.11%

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