

東北大學

2013



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1.3	1
1.4	1
2	4
2.1	4
2.1.1	4
2.1.2	4
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3.1.1	8
3.1.2	8
3.1.3	9
3.1.4	10
3.1.5	10
3.2	10
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3.2.2	11
3.3	11

3.3.1	11
3.3.2	12
3.3.3	12
3.4	13
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3.4.3	13
3.4.4	" "	13
3.5	14
3.5.1	14
3.5.2	14
3.5.3	" "	14
3.5.4	" "	14
3.5.5	"	15
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4.2	16
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4.4	16
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5.3.1	18
5.3.2	20

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6.1.3	21
6.2	22
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6.2.2	" " " " 	22
6.2.3	" " 	22
6.2.4	" " 	22
7	23
7.1	23
7.2	23

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1.2

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3.1.2

3. 1. 3

2013 19819 11372
 3412 952 440G 2013
 10 2012
 9 2013 6 9
 29
 6 31
 2013 2
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 2012-2013
 2013 5
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3. 1. 4

3. 1. 5

2013	3601			
88		2.44%		10
0.2%			47	1.30%
2013	8000	9130		
2013	657	2014		
2812.7				
2013			1900	
	2013		265	
	623.19			

3. 2

3. 2. 1 " "

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3.3

3.3.1

3.3.2

3.3.3

3.4

3.4.1

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3.4.4 " "

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20535" "

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4.1

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4.3

4.4

5

5.1

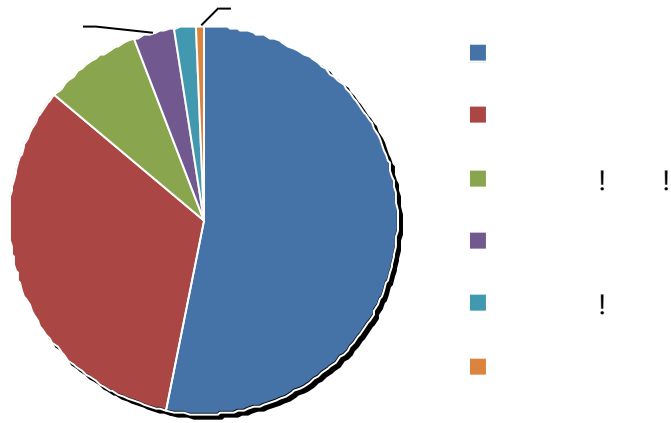
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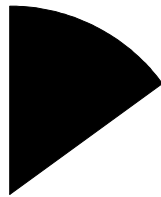
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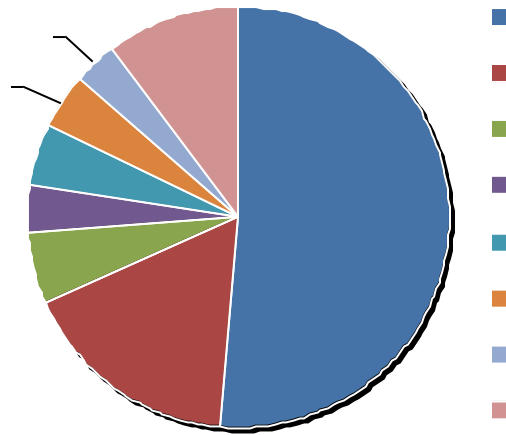
5.3.1



1 2013



2 2013



3 2013

5.3.2

6

6.1

6.1.1

6. 1. 2

6. 1. 3

6.2

6.2.1 " "

6.2.2 " " " "

6.2.3 " "

6.2.4 " "

7

7.1

7.2

