

東北大學

2013



1	1
1.1	1
1.2	1
1.3	1
1.4	1
2	4
2.1	4
2.1.1	4
2.1.2	4
2.1.3	4
2.2	5
2.2.1	5
2.2.2	5
2.2.3	6
2.2.4	7
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3.1	8
3.1.1	8
3.1.2	8
3.1.3	9
3.1.4	10
3.1.5	10
3.2	10
3.2.1	" "	10
3.2.2	11
3.3	11

3.3.1	11
3.3.2	12
3.3.3	12
3.4	13
3.4.1	13
3.4.2	13
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
4	15
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4.2	16
4.3	16
4.4	16
5	17
5.1	17
5.1.1	17
5.1.2	17
5.2	18
5.3	18
5.3.1	18
5.3.2	20

6	20
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6.1.2	21
6.1.3	21
6.2	22
6.2.1	" " " "	22
6.2.2	" " " "	22
6.2.3	" "	22
6.2.4	" "	22
7	23
7.1	23
7.2	23

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1.1

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1 2013

2 2013

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3. 1. 3

2013 19819 11372
 3412 952 440G 2013
 10 2012
 9 2013 6 9
 29
 6 31
 2013 2
 1 1 2
 2012-2013
 2013 5
 82

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

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3.4.1

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3.4.4 " "

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3.5.1

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3.5.4 " "

3.5.5" "

4

4.1

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4.4

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5.1

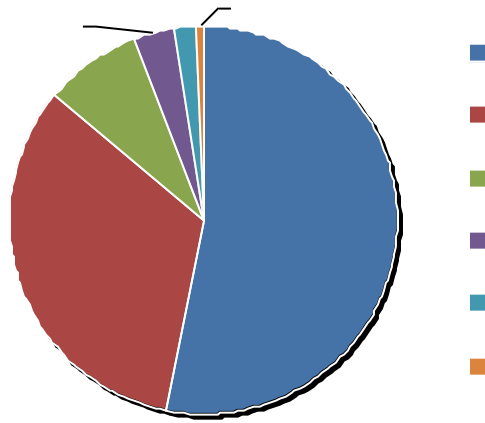
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5.1.2

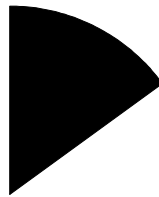
5.2

5.3

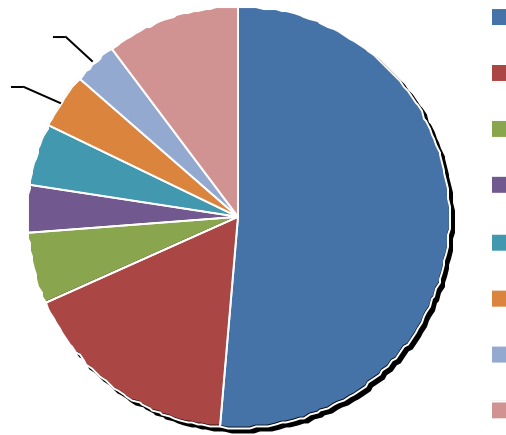
5.3.1



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

