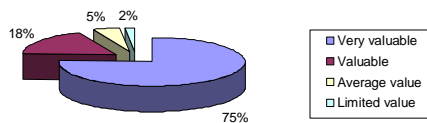


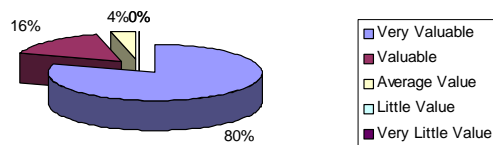
## TEACHER WORKSHOPS 2003 AND 2004

ALABAMA	13 TEACHERS 12 TEACHERS	7 SCIENTISTS 8 SCIENTISTS
FLORIDA	10 TEACHERS 11 TEACHERS	3 SCIENTISTS 8 SCIENTISTS
LOUISIANA	12 TEACHERS 14 TEACHERS	7 SCIENTISTS 10 SCIENTISTS
MISSISSIPPI	11 TEACHERS 10 TEACHERS	11 SCIENTISTS 13 SCIENTISTS
TEXAS	9 TEACHERS 7 TEACHERS	4 SCIENTISTS 3 SCIENTISTS
TOTALS	109 (55/54)	74 (38/42)

Alabama Likert Evaluation 2003

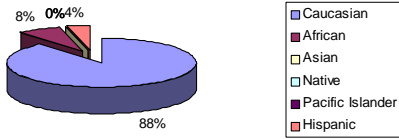


Alabama Likert Evaluation 2004

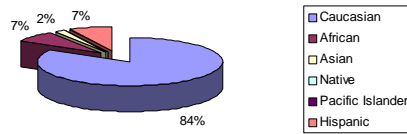


# ETHNICITY

Participant Ethnicity 2003

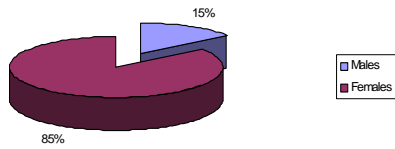


Participant Ethnicity 2004

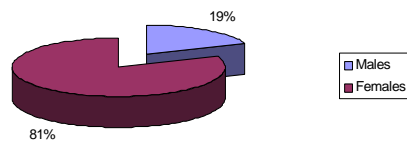


# GENDER

Participant Gender 2003



Participant Gender 2004



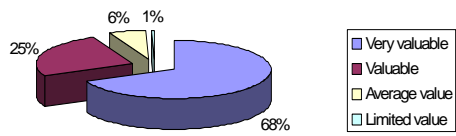
# PRETEST & POSTTEST EVALUATIONS - 2003

	FIRST 25 QUESTIONS		ENTIRE 50 QUESTIONS		SIGNIFICANCE	
	MEAN PRE	MEAN POST	MEAN PRE	MEAN POST	LEVEL	
AL	16.0 (p-value 0.0109243)	17.4	28.5 (p-value 0.000000100184)	34.9	First 25 Entire 50	0.05 0.01
FL	16.167 (p-value 0.003906)	19.5	33.3 (p-value 0.000191)	40.8	First 25 Entire 50	0.01 0.01
LA	15.5 (p-value 0.000003793)	23.9	28.7 (p-value 0.000005084)	46.8	First 25 Entire 50	0.05 0.01
MS	17.0 (p-value 0.007)	20.1	34.0 (p-value 0.0384)	38.5	First 25 Entire 50	0.01 0.05
TX	18.9 (p-value 0.004741)	20.7	32.0 (p-value 0.0000073832)	39.4	First 25 Entire 50	0.05 0.01

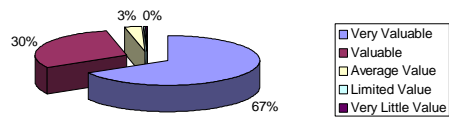
# PRETEST & POSTTEST EVALUATIONS - 2004

	FIRST 25 QUESTIONS		ENTIRE 50 QUESTIONS		SIGNIFICANCE	
	MEAN PRE	MEAN POST	MEAN PRE	MEAN POST	LEVEL	
AL	18.0 (p-value 0.204188)	19.5	33.91667 (p-value 0.012575)	36.91667	First 25 Entire 50	NS 0.05
FL	16.36364 (p-value 0.007476)	20.45455	29.81818 (p-value 0.002103)	39.36364	First 25 Entire 50	0.01 0.01
LA	15.42857 (p-value 0.000886)	19.35714	27.71429 (p-value 1.25E-05)	36.5	First 25 Entire 50	0.01 0.01
MS	16.22222 (p-value 0.116646)	18.0	30.4 (p-value 0.0050561)	36.9	First 25 Entire 50	NS 0.01
TX	18.71429 (p-value 0.010467)	23.71429	31.28571 (p-value 0.00107)	45.85714	First 25 Entire 50	0.05 0.01

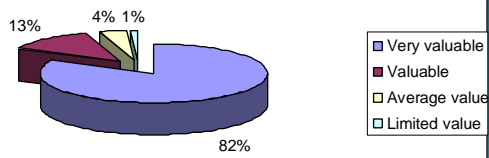
Florida Likert Evaluation 2003



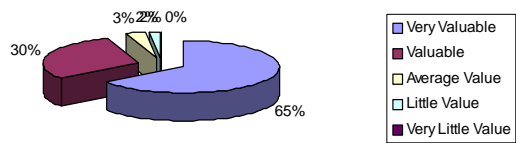
Florida Likert Evaluation 2004



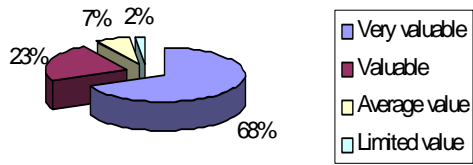
Louisiana Likert Evaluation 2003



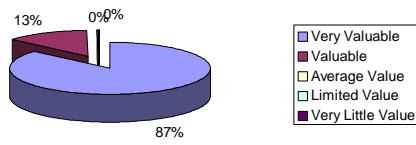
Louisiana Likert Evaluation 2004



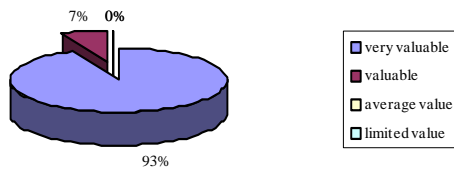
### Mississippi Likert Evaluation 2003



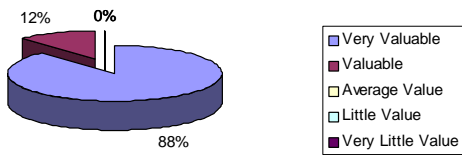
### Mississippi Likert Evaluation 2004

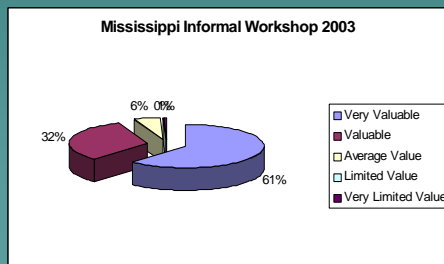
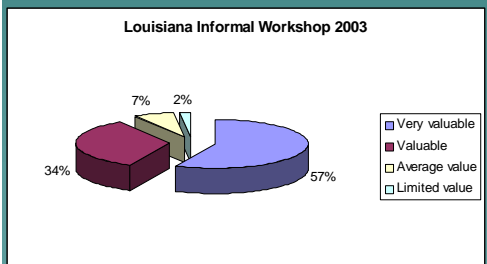
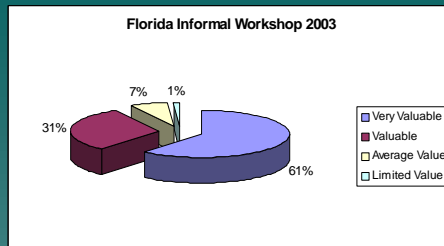
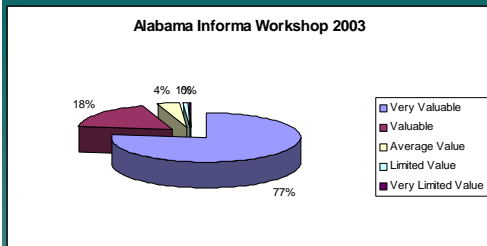


### Texas Likert Evaluation 2003



### Texas Likert Evaluation 2004





## 2004 SCIENTISTS' PROFILE

(1-NO KNOWLEDGE TO 5 EXPERT KNOWLEDGE)

KNOWLEDGE LEVEL	1	2	3	4	5
<b>KNOWLEDGE OF NATIONAL EDUCATION STANDARDS</b>					
ALABAMA	29%	43%	14%	14%	
FLORIDA	25%	13%	63%		
LOUISIANA	44%	44%		11%	
MISSISSIPPI	56%	33%	11%		
TEXAS		50%	50%		
<b>KNOWLEDGE OF SCIENCE FRAMEWORK</b>					
ALABAMA	29%	43%	14%	14%	
FLORIDA	25%	13%	50%	13%	
LOUISIANA	67%	11%	11%	11%	
MISSISSIPPI	56%	22%	22%		
TEXAS		100%			
<b>KNOWLEDGE OF MIDDLE SCHOOL SCIENCE CONTENT</b>					
ALABAMA	29%	43%	29%		
FLORIDA	13%	13%	50%	25%	
LOUISIANA	22%	44%	22%	11%	
MISSISSIPPI	33%	22%	33%	11%	
TEXAS		50%	50%		
<b>KNOWLEDGE OF THE PHILOSOPHY OF INQUIRY-BASED LEARNING</b>					
ALABAMA	14%	29%	14%	29%	14%
FLORIDA		25%		50%	25%
LOUISIANA		56%	44%		
MISSISSIPPI	33%	11%	45%	11%	
TEXAS				100%	

## 2004 SCIENTISTS' PROFILE COMPOSITE FACE-TO-FACE

(1-NO KNOWLEDGE TO 5 EXPERT KNOWLEDGE)

KNOWLEDGE LEVEL	1	2	3	4	5
KNOWLEDGE OF NATIONAL EDUCATION STANDARDS	37%	34%	23%	6%	
KNOWLEDGE OF SCIENCE FRAMEWORK	43%	26%	23%	9%	
KNOWLEDGE OF MIDDLE SCHOOL SCIENCE CONTENT	24%	32%	35%	9%	
KNOWLEDGE OF THE PHILOSOPHY OF INQUIRY-BASED LEARNING	11%	29%	26%	26%	9%

### Online Course Likert Summary 2003

