



# Comparison of Form B 2001 Results

Presentation by the FCHLPM Professional Team

FCHLPM Meeting

Tallahassee, FL  
September 18, 2002



# Form B: Hypothetical Event Evaluation

- The Commission requests:
  - Maximum estimated one-minute sustained 10-meter wind speed
  - Estimated loss by coverage type
  
- For the purpose of evaluating the consistency of:
  - Wind speeds among the different models
  - Loss estimates among the different models



# Form B Comparisons

## ■ Losses calculated:

- Total estimated
- Loss A
- Loss B (10% of Loss A)
- Loss C
- Loss D

## ■ Storm Categories:

- Cat 1
- Cat 2
- Cat 3
- Cat 4
- Cat 5

## ■ Cities:

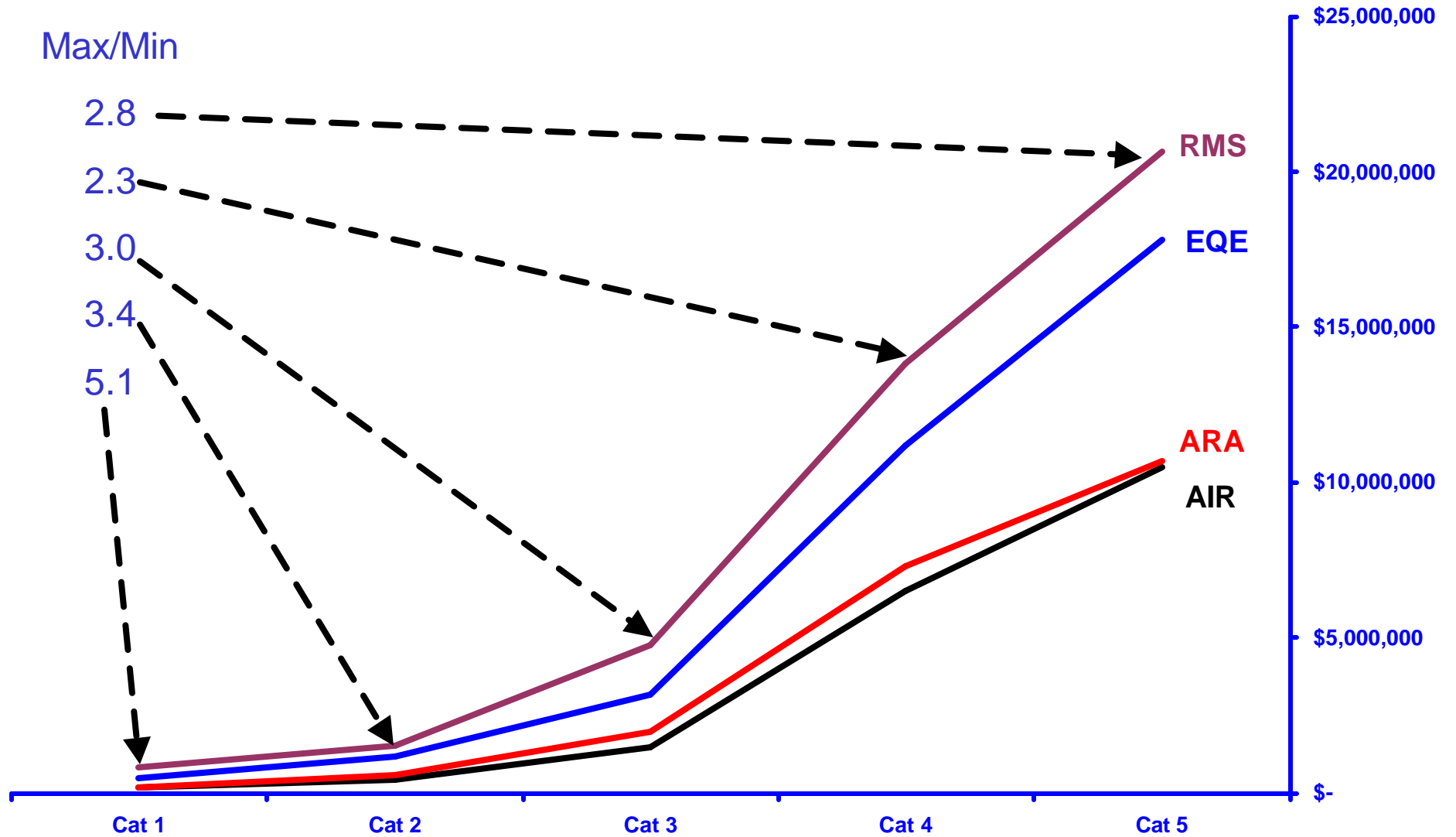
- Ft. Myers
- Ft. Pierce
- Jacksonville
- Panama City
- Miami
- Tampa

5 Cats x 6 Cities = 30 cases  
for each loss

Significant differences  
exist among modelers

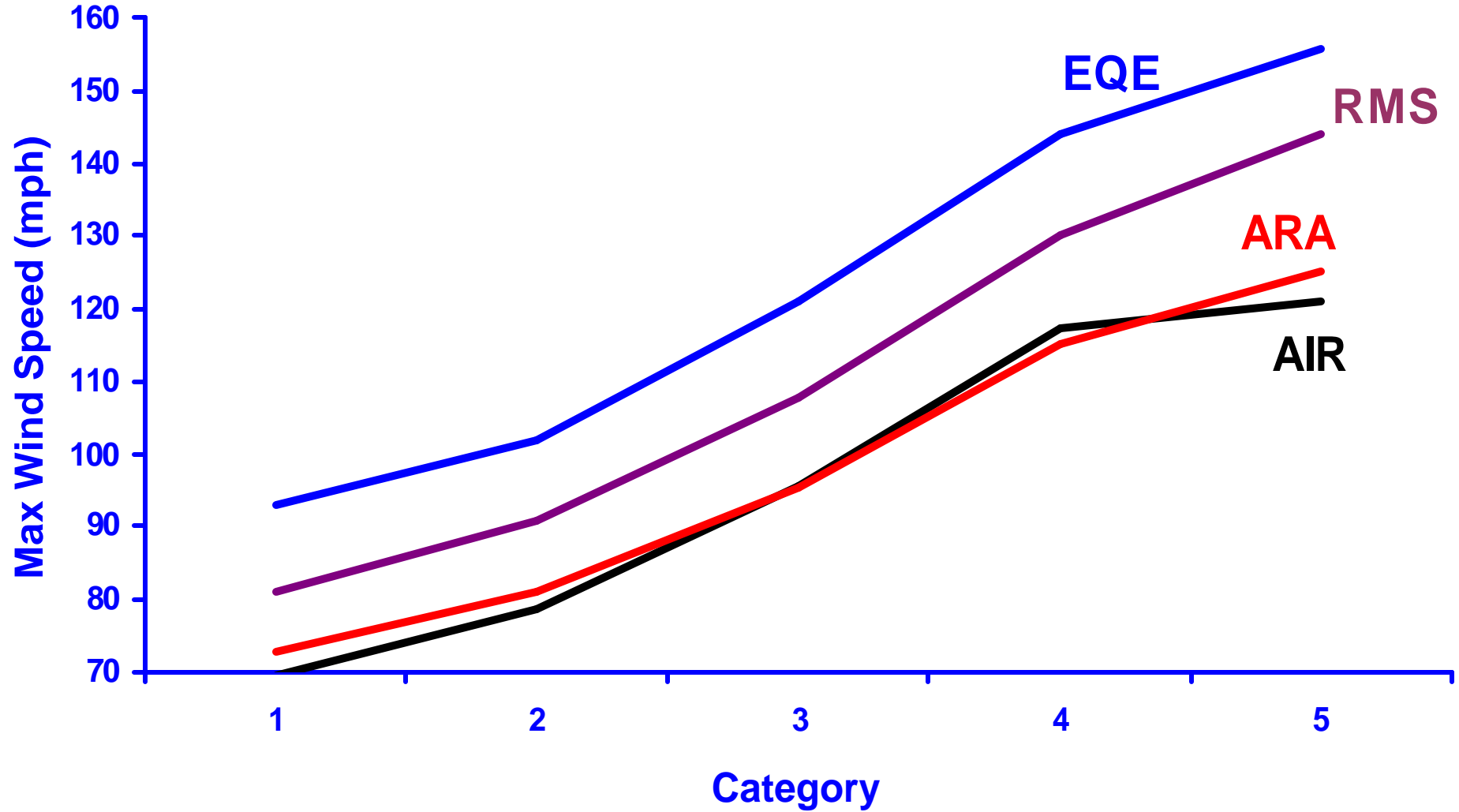


# Form B: Total Estimated Loss - Ft. Myers



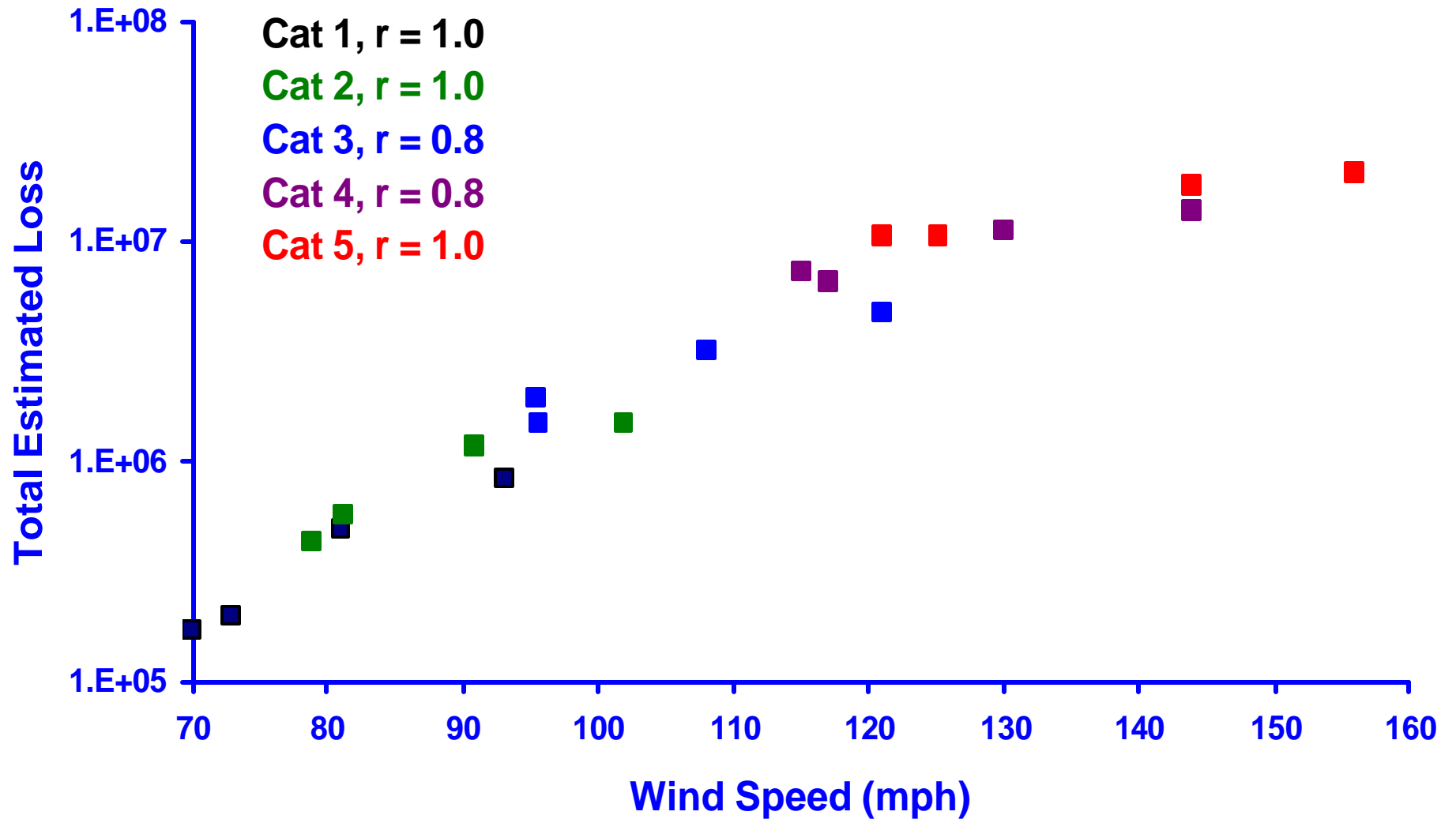


# Ft. Myers



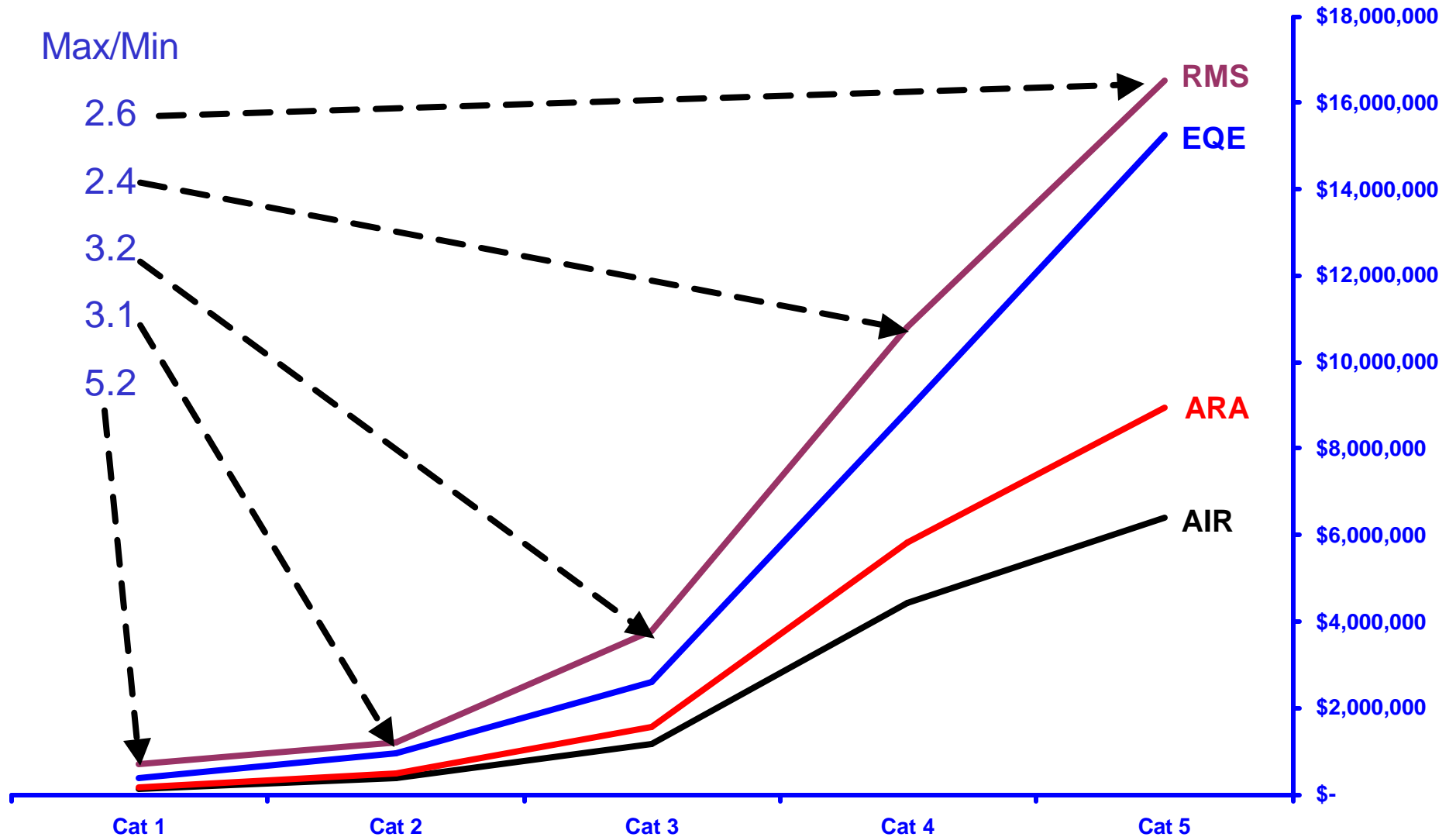


## Ft. Myers - Correlation of Max WS & Total Loss



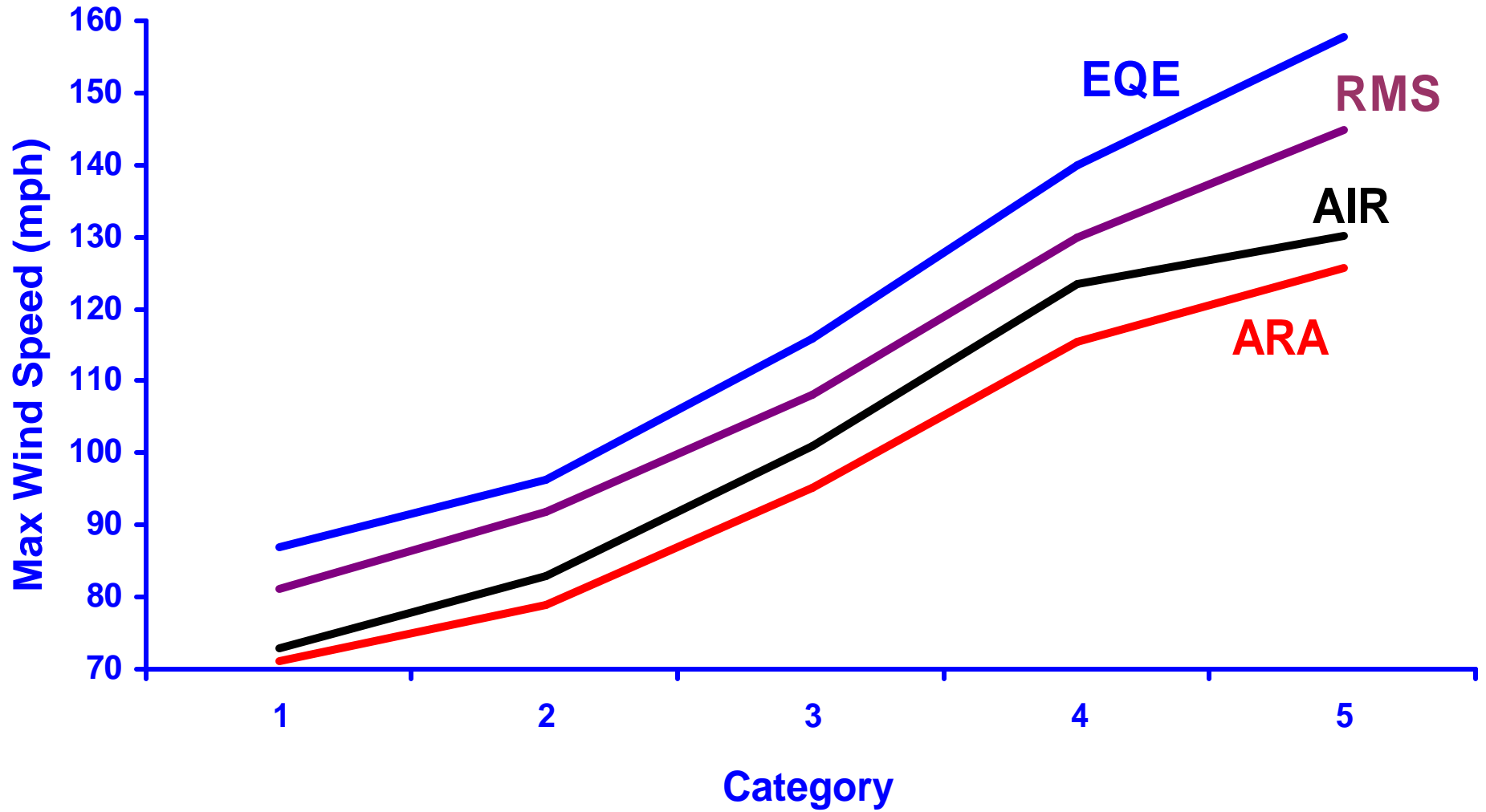


## Form B: Total Estimated Loss - Ft. Pierce





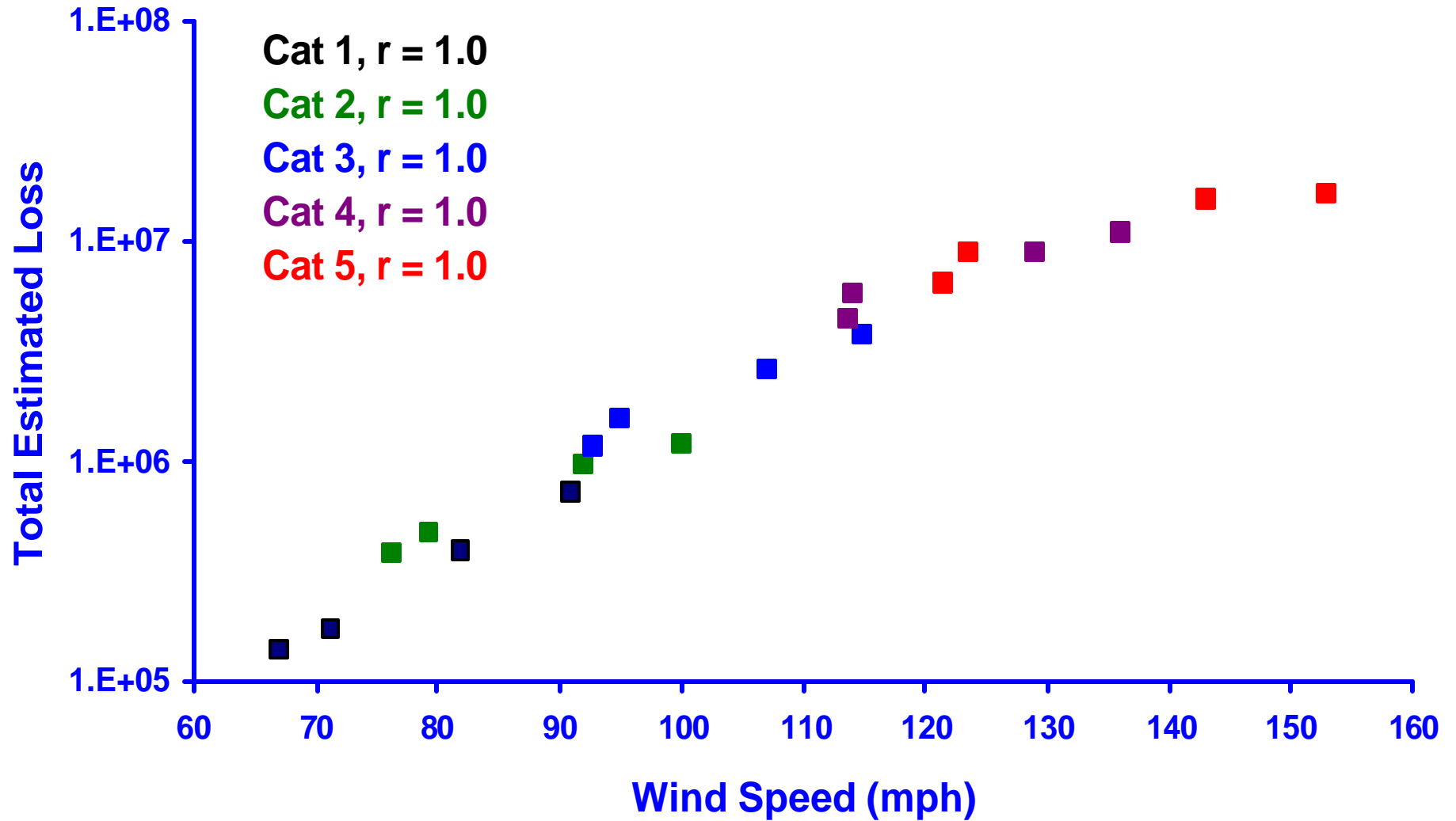
# Ft. Pierce





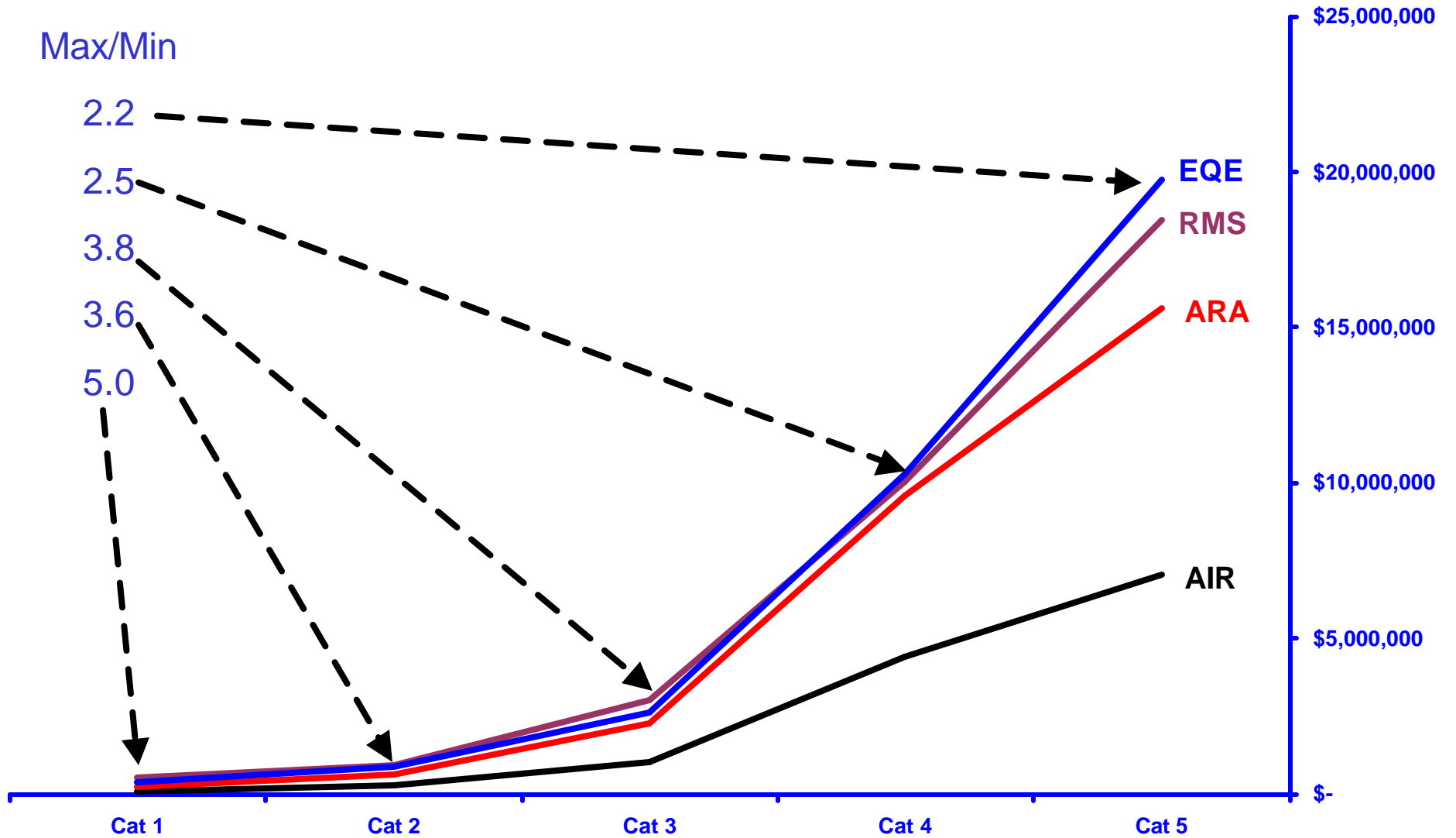


## Ft. Pierce - Correlation of Max WS & Total Loss



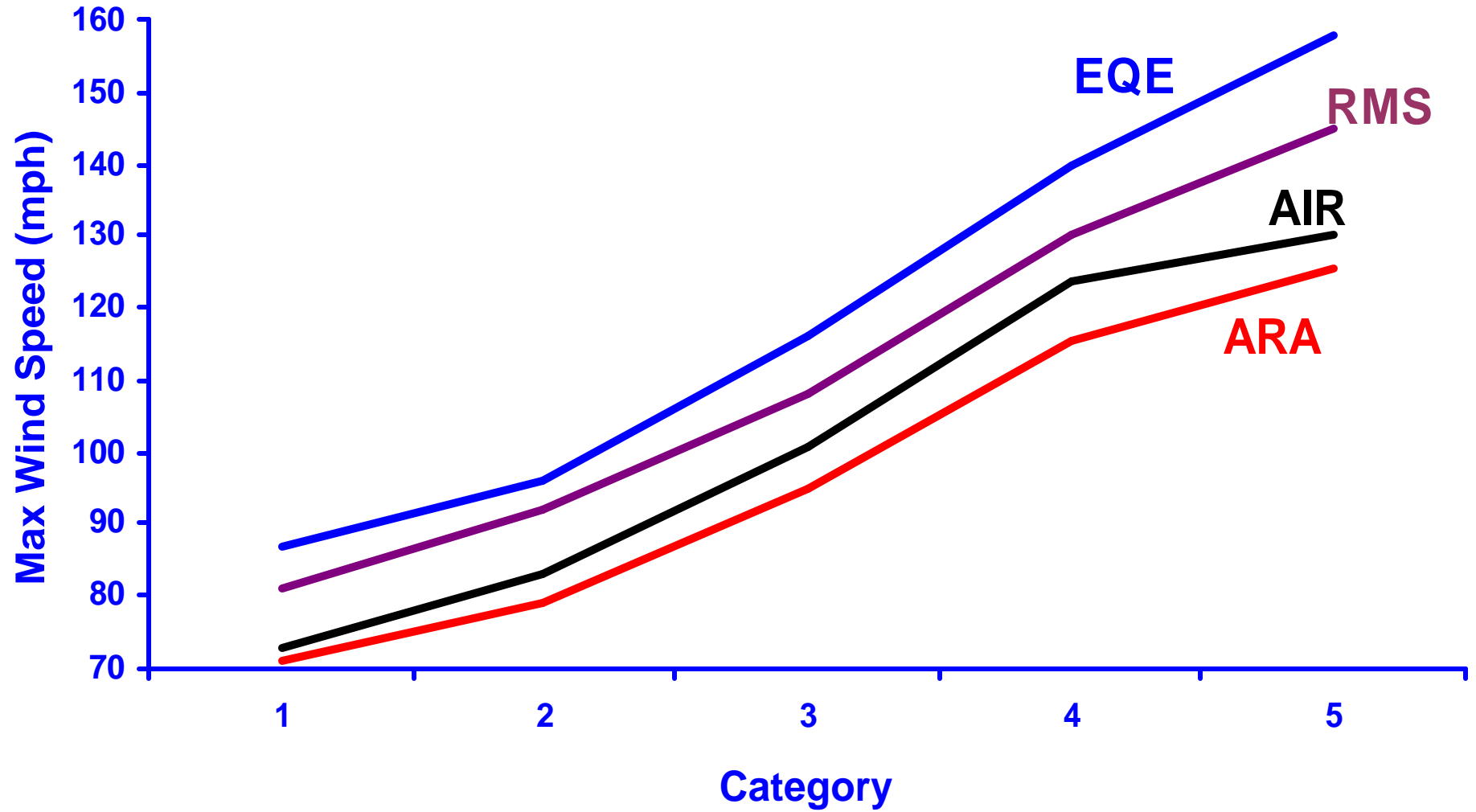


# Form B: Total Estimated Loss - Jacksonville



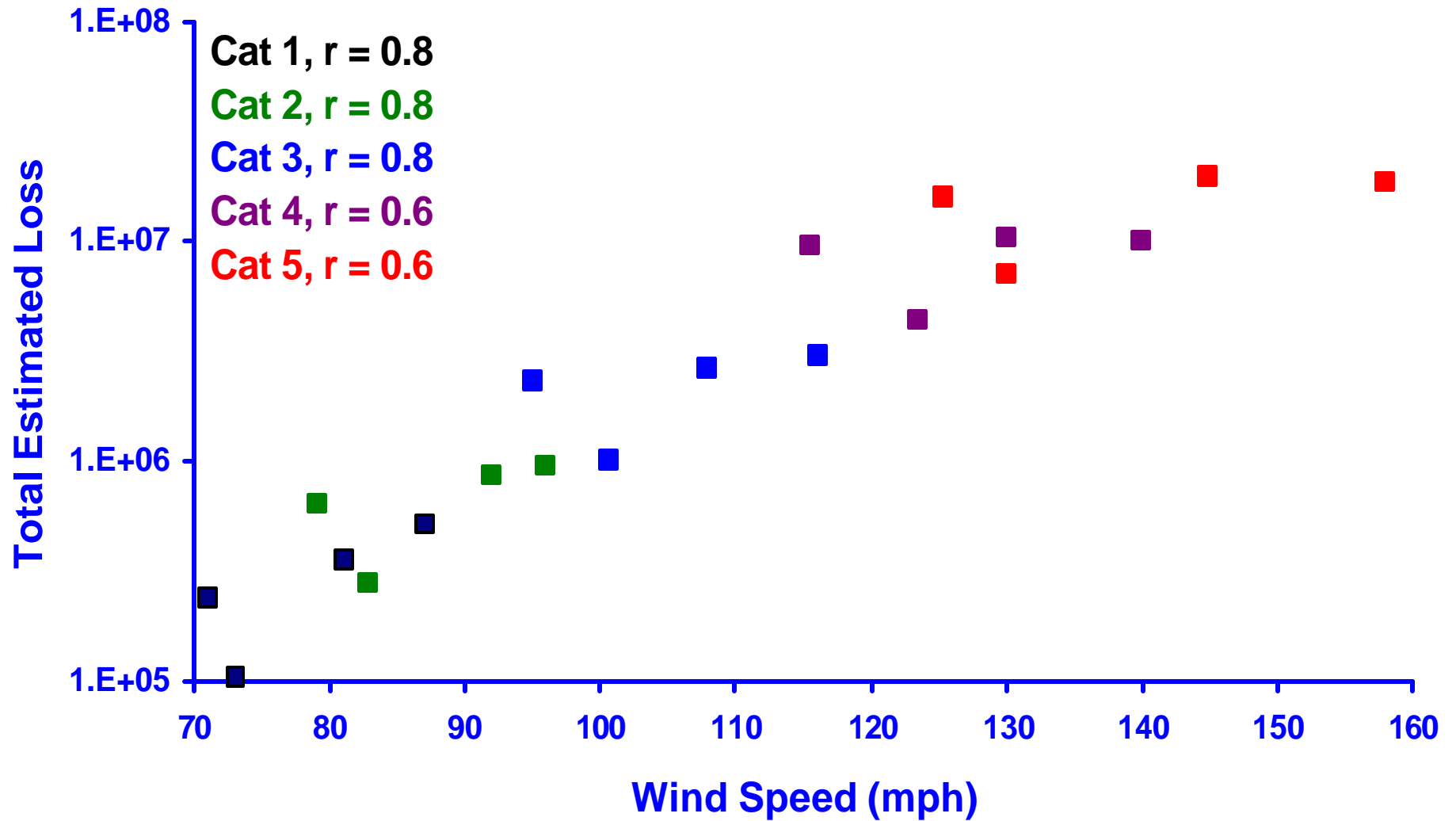


# Jacksonville



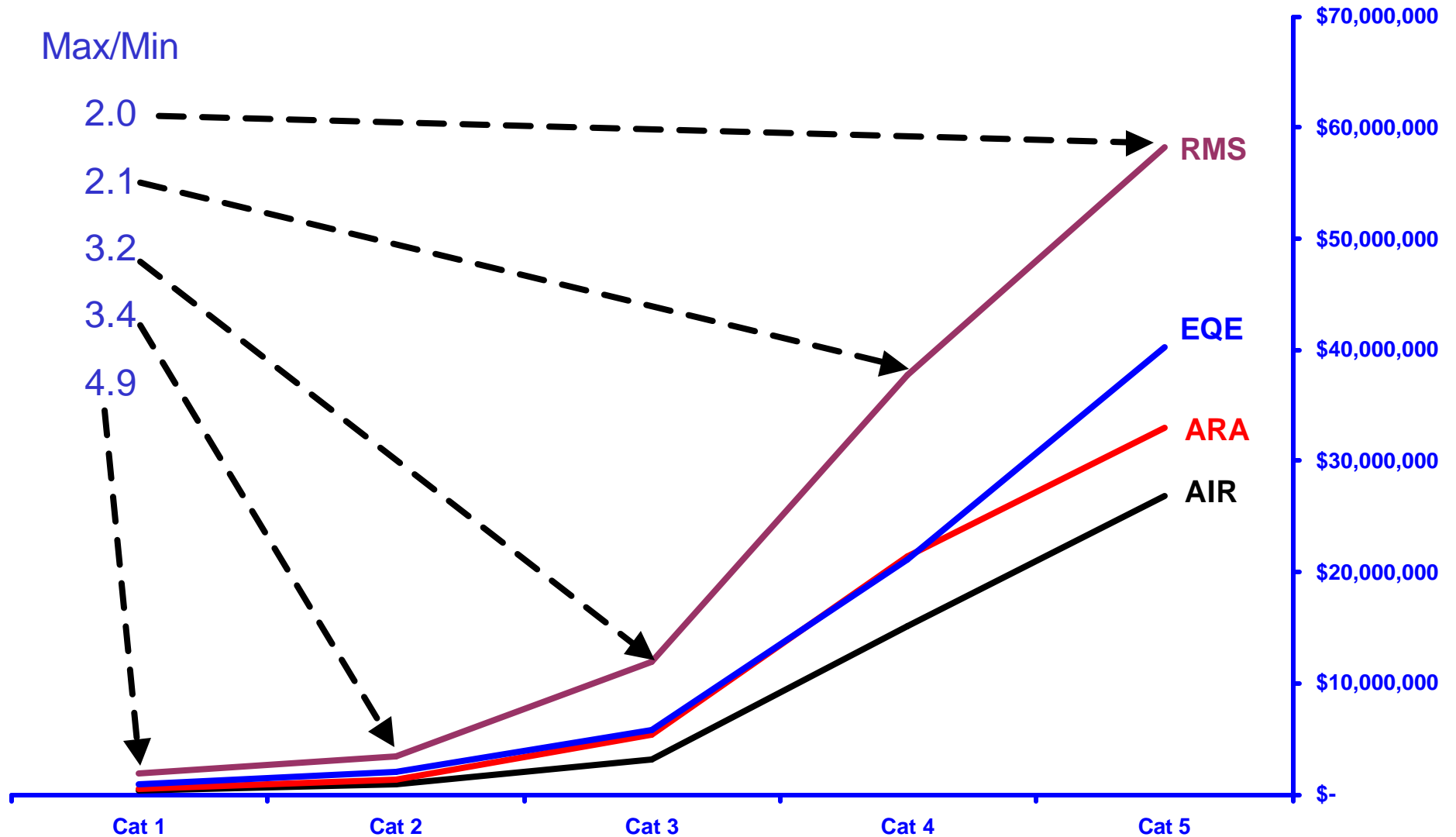


## Jacksonville - Correlation of Max WS & Total Loss



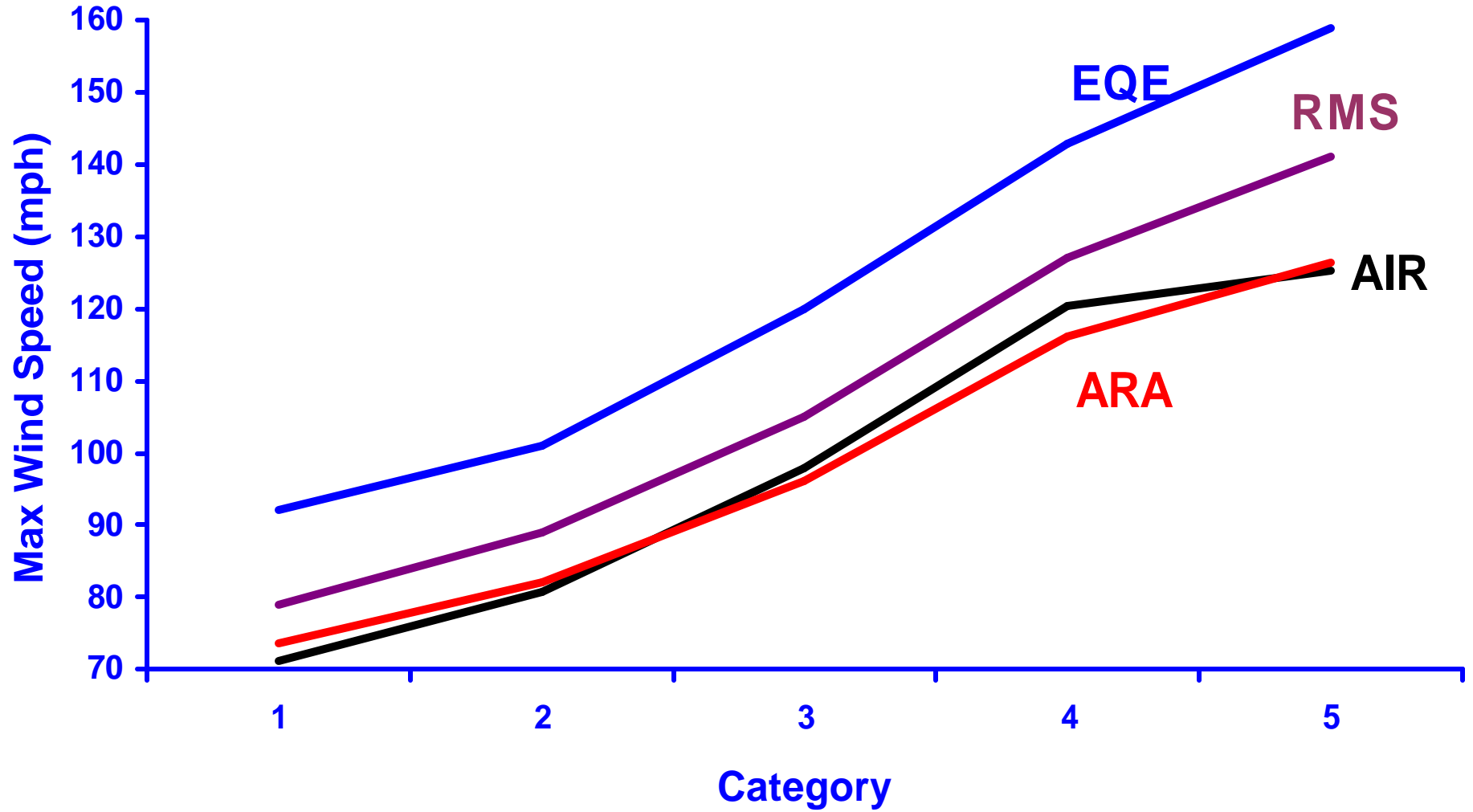


## Form B: Total Estimated Loss - Miami



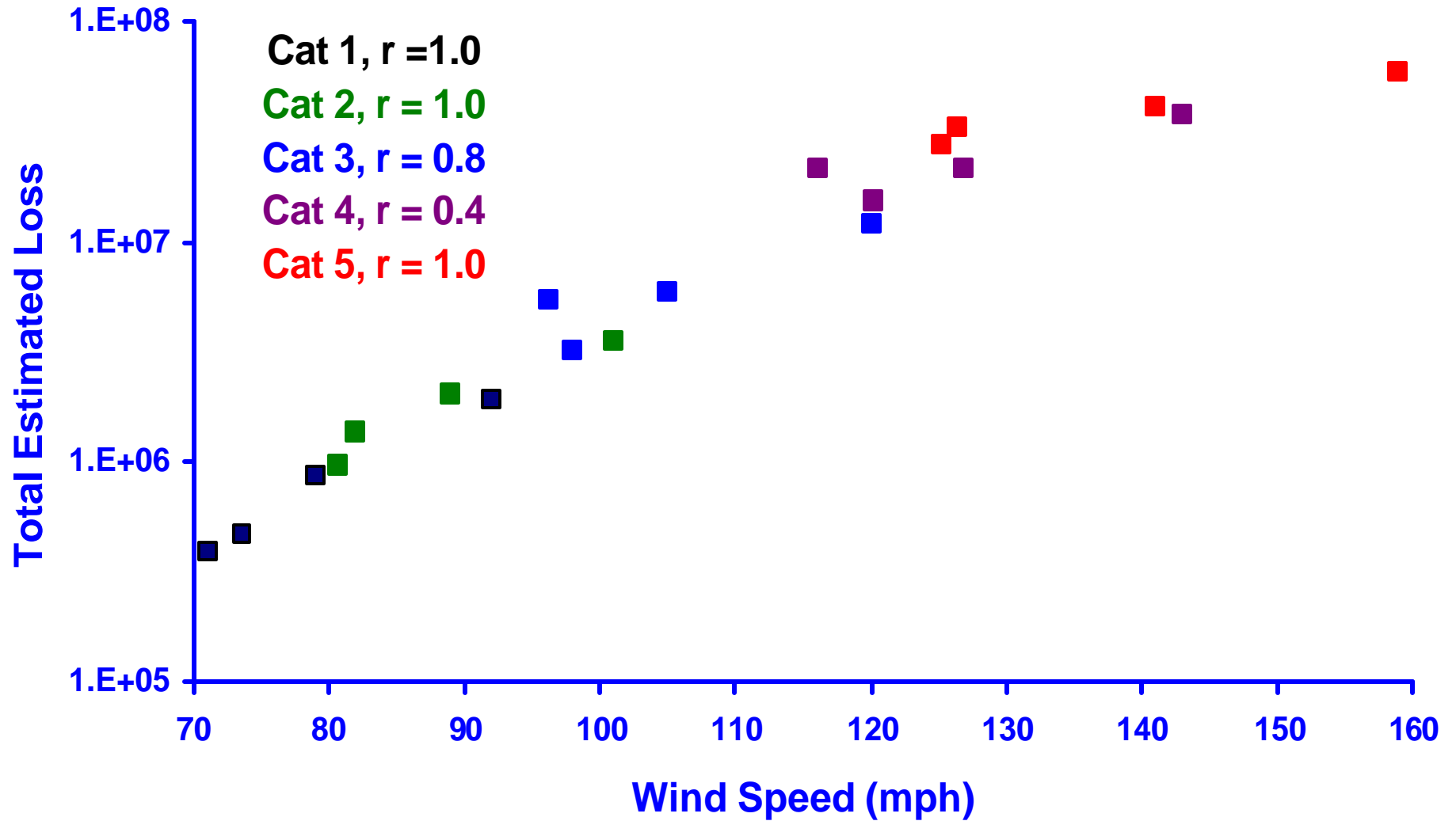


# Miami



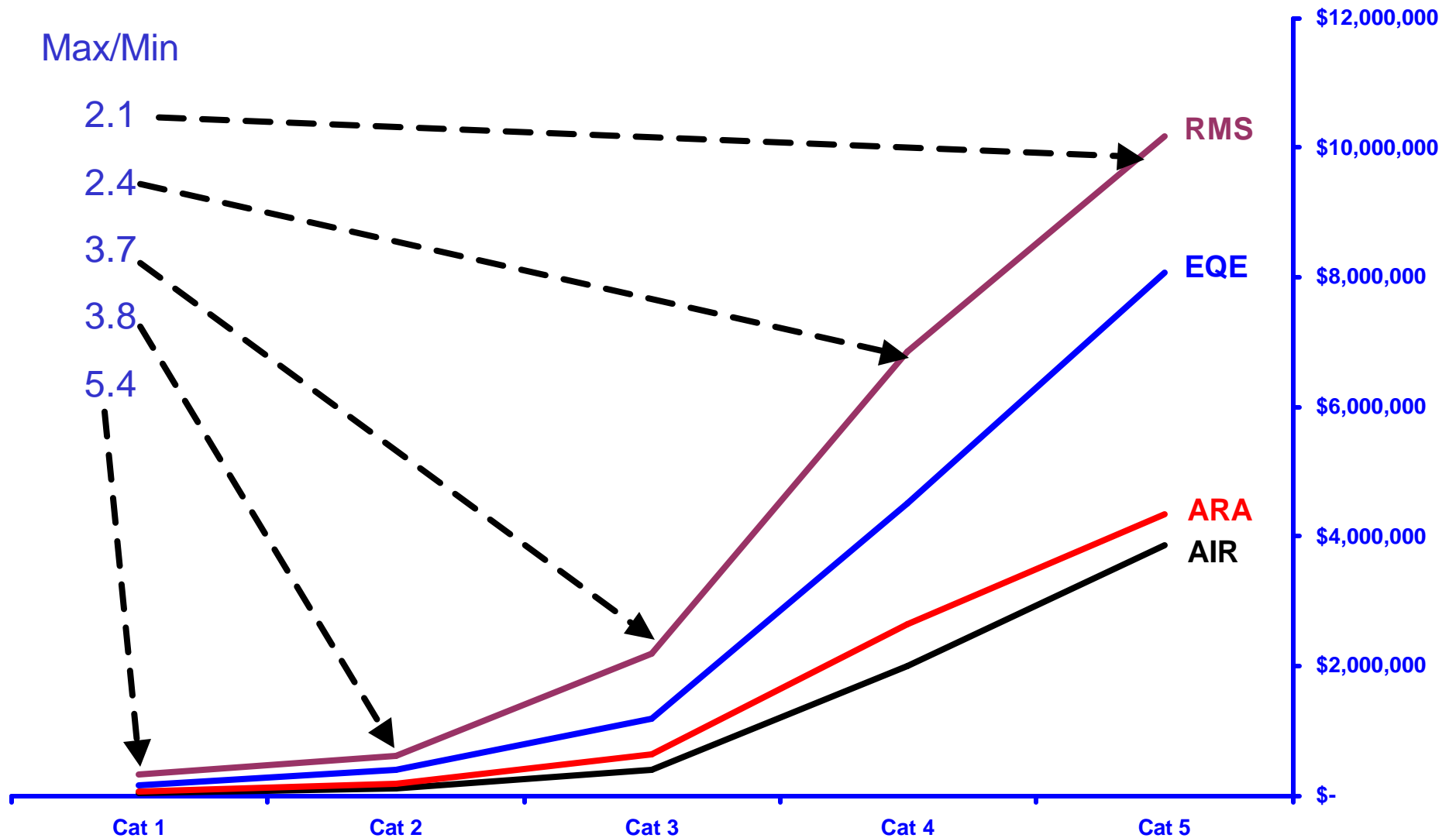


## Miami - Correlation of Max WS & Total Loss





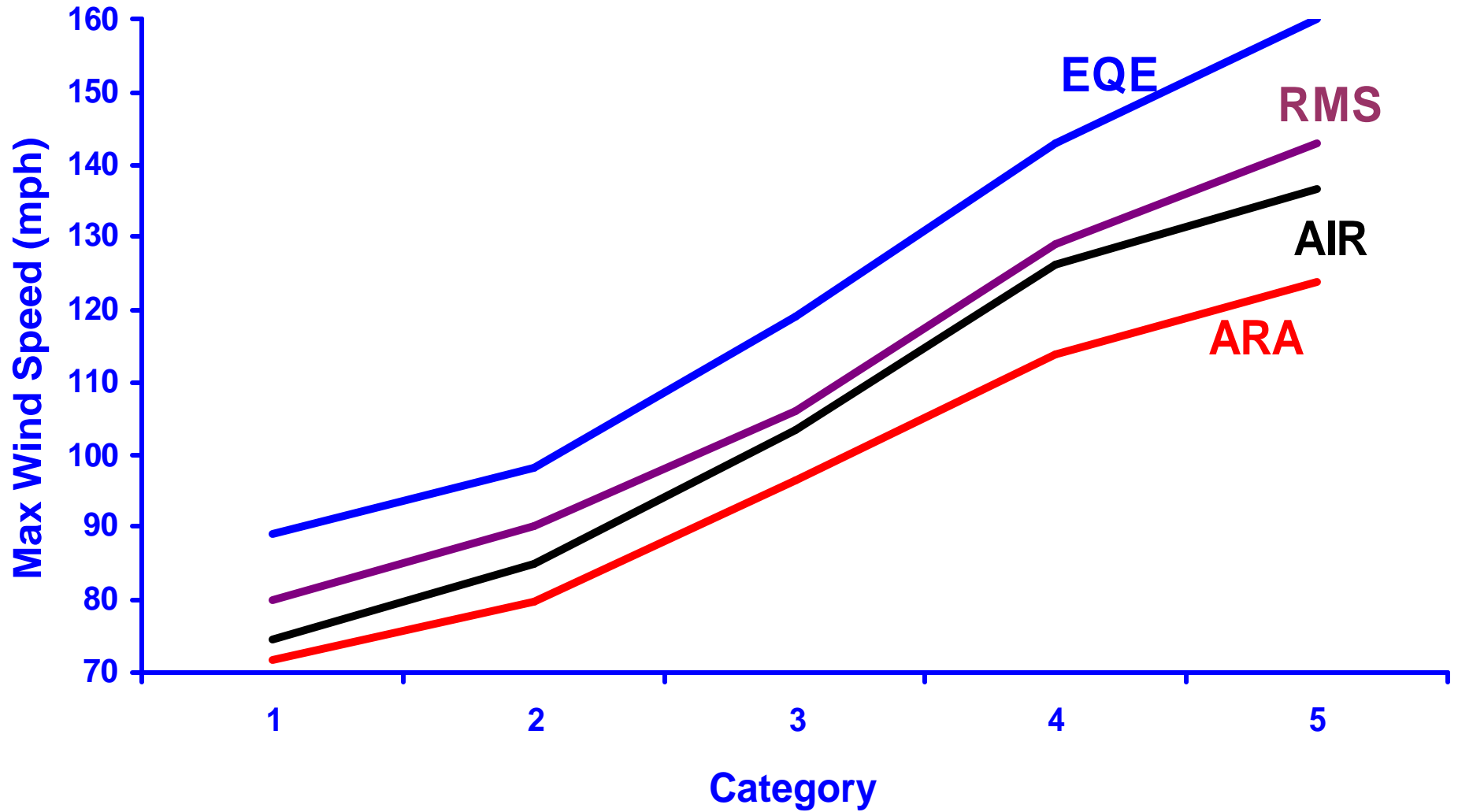
## Form B: Total Estimated Loss - Panama City





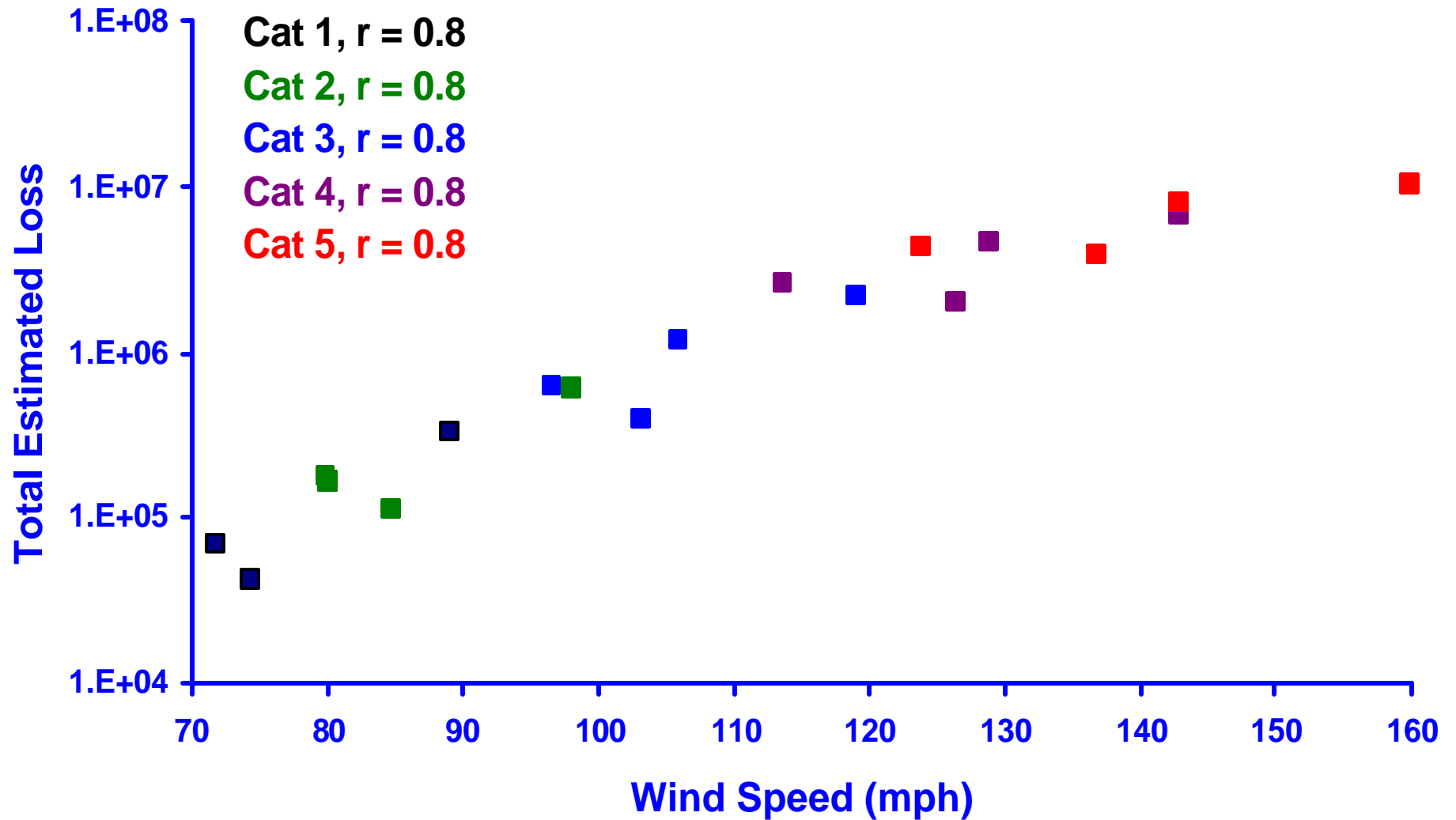


# Panama City



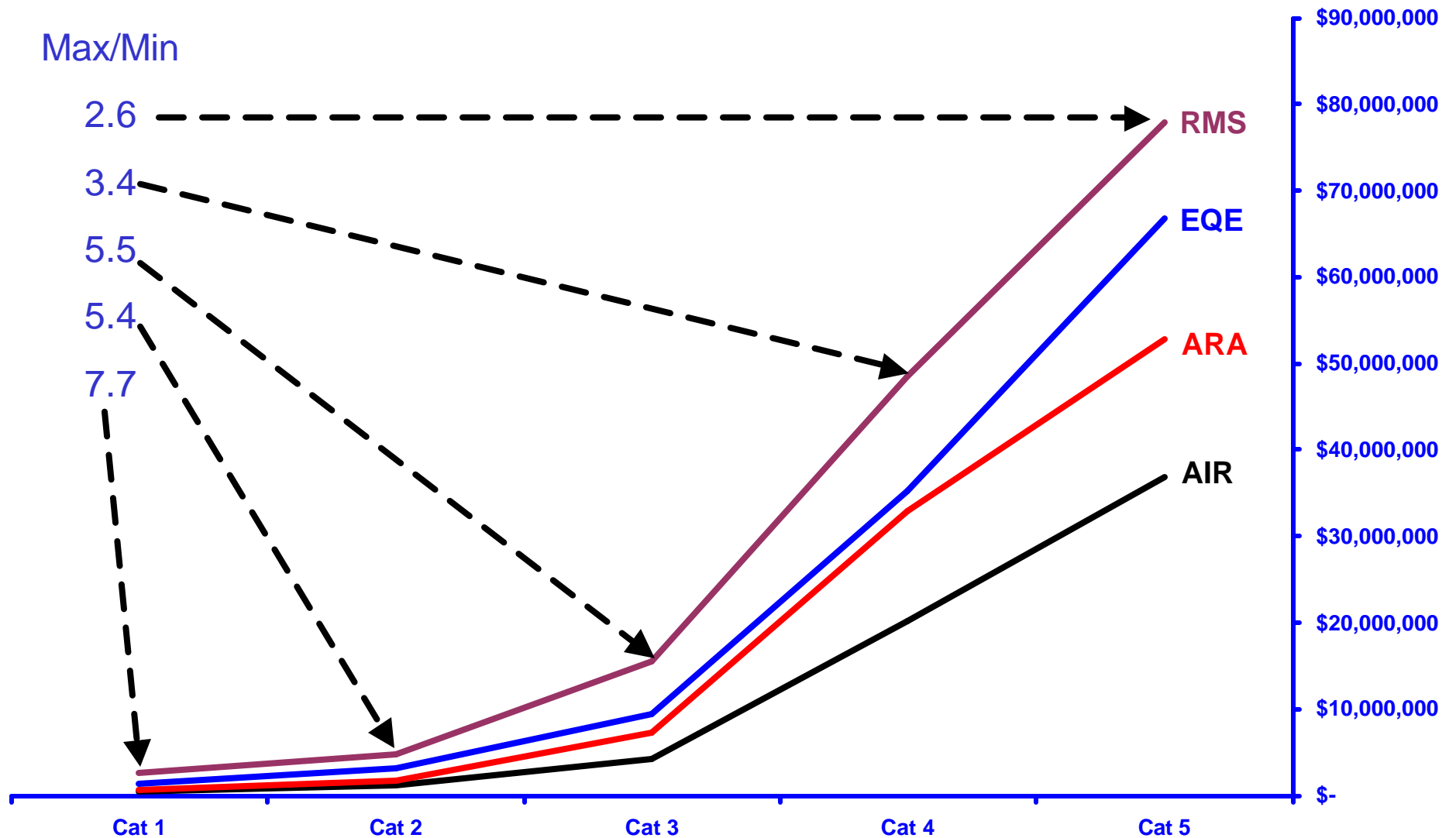


## Panama City - Correlation of Max WS & Total Loss



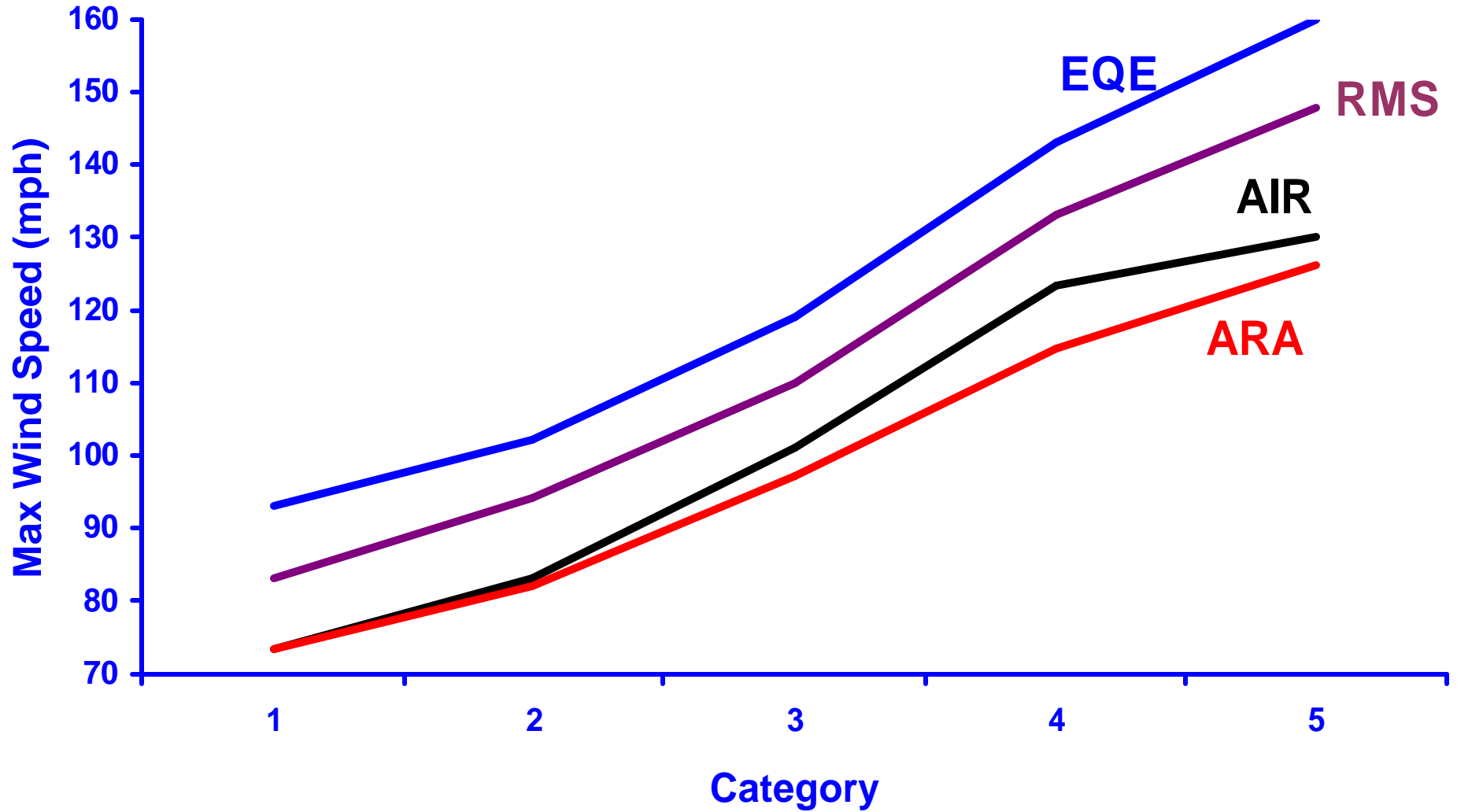


## Form B: Total Estimated Loss - Tampa



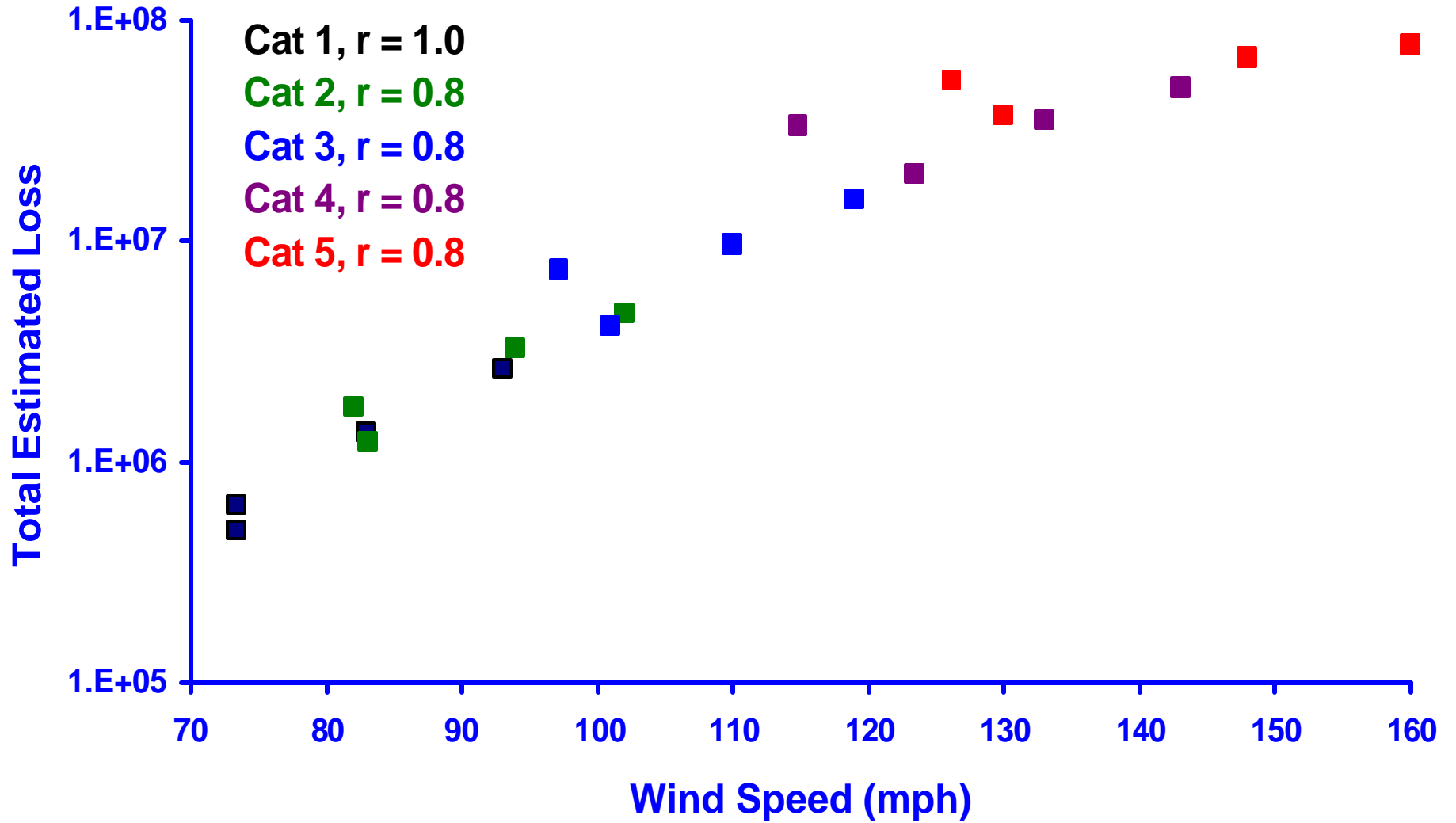


# Tampa





## Tampa - Correlation of Max WS & Total Loss



## Ranking of Losses by Modeler within Cities by Category

	Total					Loss A					Loss C					Loss D				
	AIR	ARA	EQE	RMS		AIR	ARA	EQE	RMS		AIR	ARA	EQE	RMS		AIR	ARA	EQE	RMS	
<b>Cat 1</b>																				
Ft M	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Ft P	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
JV	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Mia	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
PC	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Tam	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
<b>Cat 2</b>																				
Ft M	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Ft P	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
JV	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Mia	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
PC	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Tam	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
<b>Cat 3</b>																				
Ft M	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Ft P	1	2	3	4		1	2	3	4		1	2	4	3		1	2	3	4	
JV	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	
Mia	1	2	3	4		1	3	2	4		1	2	4	3		1	3	2	4	
PC	1	2	3	4		1	2	3	4		1	2	4	3		1	2	3	4	
Tam	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	
<b>Cat 4</b>																				
Ft M	1	2	3	4		1	2	3	4		2	1	4	3		1	3	2	4	
Ft P	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	
JV	1	2	4	3		1	3	4	2		1	2	4	3		1	4	2	3	
Mia	1	3	2	4		1	3	2	4		1	2	4	3		1	3	2	4	
PC	1	2	3	4		1	2	3	4		1	2	4	3		1	2	3	4	
Tam	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	
<b>Cat 5</b>																				
Ft M	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Ft P	1	2	3	4		1	2	3	4		1	2	4	3		1	2	3	4	
JV	1	2	4	3		1	2	4	3		1	2	4	3		1	4	2	3	
Mia	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	
PC	1	2	3	4		1	2	3	4		2	1	4	3		1	2	3	4	
Tam	1	2	3	4		1	2	3	4		1	2	4	3		1	3	2	4	

## Ranking of Losses by City within Modeler by Category

	Total					Loss A					Loss C					Loss D			
	RMS	AIR	ARA	EQE		RMS	AIR	ARA	EQE		RMS	AIR	ARA	EQE		RMS	AIR	ARA	EQE
<b>Cat 1 PC</b>	1	1	1	1		1	1	1	1		1	1	3	1		1	2	1	1
JV	2	2	4	2		2	2	4	2		2	2	5	2		2	1	2	2
Ft P	3	3	2	3		3	3	2	3		3	3	1	3		4	3	3	3
Ft M	4	4	3	4		4	4	3	4		4	4	2	4		3	6	4	4
Mia	5	5	5	5		5	5	5	5		5	5	4	5		5	5	6	5
Tam	6	6	6	6		6	6	6	6		6	6	6	6		6	4	5	6
<b>Cat 2 PC</b>	1	1	1	1		1	1	1	1		1	1	2	1		1	1	1	1
JV	2	2	4	2		2	2	4	2		2	2	4	2		2	2	2	2
Ft P	3	3	2	3		3	3	2	3		3	3	1	3		3	3	3	3
Ft M	4	4	3	4		4	4	3	4		4	4	3	4		4	4	4	4
Mia	5	5	5	5		5	5	5	5		5	5	5	5		5	6	5	5
Tam	6	6	6	6		6	6	6	6		6	6	6	6		6	5	6	6
<b>Cat 3 PC</b>	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1
JV	2	2	4	3		2	2	4	3		2	2	4	3		2	2	4	3
Ft P	3	3	2	2		3	3	2	2		3	3	2	2		3	3	2	2
Ft M	4	4	3	4		4	4	3	4		4	4	3	4		4	4	3	4
Mia	5	5	5	5		5	5	5	5		5	5	5	5		5	5	5	5
Tam	6	6	6	6		6	6	6	6		6	6	6	6		6	6	6	6
<b>Cat 4 PC</b>	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1
JV	2	2	4	3		2	2	4	3		2	3	4	3		2	3	4	3
Ft P	3	3	2	2		3	3	2	2		3	2	2	2		3	2	2	2
Ft M	4	4	3	4		4	4	3	4		4	4	3	4		4	4	3	4
Mia	5	5	5	5		5	5	5	5		5	5	5	5		5	5	5	5
Tam	6	6	6	6		6	6	6	6		6	6	6	6		6	6	6	6
<b>Cat 5 PC</b>	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1
JV	3	3	4	4		3	3	4	4		3	3	4	4		3	3	4	4
Ft P	2	2	2	2		2	2	2	2		2	2	2	2		2	2	2	2
Ft M	4	4	3	3		4	4	3	3		4	4	3	3		4	4	3	3
Mia	5	5	5	5		5	5	5	5		5	5	5	5		5	5	5	5
Tam	6	6	6	6		6	6	6	6		6	6	6	6		6	6	6	6



# Form B Summary for Total Estimated & Loss A

## Total Estimated Loss

	1 (low)	2	3	4 (high)
AIR	30			
ARA		29	1	
EQE		1	27	2
RMS			2	28

## Loss A

	1 (low)	2	3	4 (high)
AIR	30			
ARA		27	3	
EQE		2	26	2
RMS		1	1	28





# Form B Summary for Loss C

### Cat 1 and 2

	1 (low)	2	3	4 (high)
AIR		12		
ARA	12			
EQE			12	
RMS				12

### Cat 3, 4 and 5

	1 (low)	2	3	4 (high)
AIR	14	4		
ARA	4	14		
EQE			18	
RMS				18



# Form B Summary for Loss D

### Cat 1 and 2

	1 (low)	2	3	4 (high)
AIR	12			
ARA		12		
EQE			12	
RMS				12

### Cat 3, 4 and 5

	1 (low)	2	3	4 (high)
AIR	18			
ARA		7	9	2
EQE		11	7	
RMS			2	16