

MARICOPA COUNTY DEPARTMENT OF PUBLIC HEALTH DIVISION OF DISEASE CONTROL OFFICE OF EPIDEMIOLOGY

HEAT-ASSOCIATED DEATHS IN MARICOPA COUNTY, AZ ADDENDUM TO THE 2012 FINAL REPORT WITH RESOLUTION TO TWO PENDING CASES

10/3/2014

Table of Contents

Background	3
Results of the Pending Cases	3
Table 1: Identifying Characteristics of the Two Pending Cases	3
Preliminary and Final Results	4
Table 2: Heat Associated Deaths by Classification	4
Table 3: Heat Associated Deaths by Place of Residence	4
Table 4: Heat Associated Deaths by Gender	4
Table 5: Heat Associated Deaths by Age Group	5
Table 6: Heat Associated Deaths by Number of Years Spent in Arizona	5
Table 7: Heat Associated Deaths by Race/Ethnicity Error! Bookmark n	ot defined.
Table 8: Heat Associated Deaths by Place of Injury	6
Table 9: Heat Associated Deaths by Place of Outdoor Injury	7
Table 10: Heat Associated Deaths by Residency Status	7
Table 11: Heat Associated Deaths by Drug & Alcohol Use (Death Certificate)	8
Table 12: Heat Associated Deaths by Drug & Alcohol Use (Medical Examiner)	8

Background

This addendum is a continuation of the 2012 Final Heat-Associated Death Report and includes a summarization of the two heat-associated deaths that were previously pending. After extensive investigation into the two pending cases, it was found that both cases were legitimate heat-associated deaths. In this report you will find a table depicting the history and demographics of the two previously pending heat-associated deaths, followed by a series of tables depicting the preliminary 2012 results compared to the final 2012 results

Final Results of the Two Pending Cases

Table 1

Identifying Characteristics of the Two Pending Cases			
	<u>Case #1</u> <u>Case #2</u>		
Heat Caused or Heat Related	Heat Caused	Heat Caused	
Gender	Female	Female	
Age	68	54	
Age Group	65-74	50-64	
# of Years Spent in Arizona	00		
Race	White	African American	
Place of Injury	Outdoor	Outdoor	
Place of Outdoor Injury	Urban Area	Car	
Air Conditioning Status	N/A	N/A	
Homeless Status	Non-Homeless	Non-Homeless	
Drug/Alcohol Related based on records from the Death Certificate	No	No	
Place of Residency	Out of Jurisdiction (Pinal County)	Maricopa County	
Date of Injury	8/30/2012	10/20/2012	
Date of Death	10/23/2012	10/20/2012	

Comparison of the Preliminary and Final Results for the 2012 Heat Mortality Report

Table 2

Heat Associated Deaths by Classification					
	<u>Preliminary Results</u> <u>Final Results</u>				
Heat Related	47 (43.5%)	47 (42.7%)			
Heat Caused 61 (56.5%) 63 (57.3%)		63 (57.3%)			
Total 108 (100%) 110 (100%)					

Table 3

Heat Associated Deaths by Place of Residence				
Preliminary Results Final Results				
Maricopa County	86 (82.7%)	87 (82.1%)		
Non-Maricopa County 11 (10.6%) 12 (11.3%)		12 (11.3%)		
Non-Arizona	Non-Arizona 7 (6.7%) 7 (6.6%)			
Total	104 (100%)	106 (100%)		

^{*}Excludes 4 cases where residency could not be established

Table 4

Heat Associated Crude Deaths by Gender				
<u>Preliminary Results</u> <u>Final Results</u>				
Total # Males	71 (65.7%)	71 (64.5%)		
Total # Females 37 (34.3%) 39 (35.5%)		39 (35.5%)		
Total	108 (100%)	110 (100%)		

^{**}Non-Maricopa County residents include Apache (1), Cochise (1) La Paz (1), Mohave (1), Pinal (2), and other unidentified AZ counties (6).

^{***}Non-Arizona residents include seven U.S. residents (AR, CA (3), IA, MN) and one non-US resident (Mexico)

Table 5

Heat Associated Deaths by Age Group				
	Preliminary Results Final Results			
0-4	2 (1.9%)	2 (1.8%)		
5-19	1 (0.9%)	1 (0.9%)		
20-34	4 (3.7%)	4 (3.6%)		
35-49	21 (19.4%)	21 (19.1%)		
50-64	36 (33.3%)	37 (33.6%)		
65-74	15 (13.9%)	16 (14.6%)		
75+	29 (26.9%)	29 (26.4%)		
Total	108 (100%)	110 (100%)		

Table 6

Heat Associated Deaths by Number of Years Spent in Arizona				
	Preliminary Results Final Results			
< 3	8 (8.5%)	8 (8.3%)		
3-9	9 (9.6%) 9 (9.4%)			
10-19	17 (18.1%)	18 (18.8%)		
20+	60 (63.8%)	61 (63.5%)		
Total	94 (100%)	96 (100%)		

^{*}Excludes fourteen cases for which time spent in Arizona was unknown at time of analysis

Table 7

Heat Associated Deaths by Race/Ethnicity					
	Preliminary Results <u>Final Results</u>				
White	White 59 (2.6) 59 (2.6)				
Hispanic	spanic 16 (1.4) 16 (2.2)				
African American 3 (1.6) 4 (1.6)		4 (1.6)			
Asian/Pacific Islander 3 (2.0) 3 (2.0)		3 (2.0)			
Native American 4 (6.4) 4 (6.4)		4 (6.4)			
Total Rates:	85 (2.2)	86 (2.3)			

^{*}Preliminary results exclude twenty-three cases that were not Maricopa County
**Final results exclude twenty-four cases that were not Maricopa County

Table 8

Heat Associated Deaths by Place of Injury				
<u>Preliminary Results</u> <u>Final Results</u>				
Indoor	45 (41.7%)	45 (41.0%)		
Outdoor	Outdoor 62 (57.4%) 64 (58.2%)			
Unknown	1 (0.9%)	1 (0.9%)		
Total	108 (100%)	110 (100%)		

Table 9

Heat Associated Deaths by Place of Outdoor Injury				
	Preliminary Results Final Results			
Urban Area	22 (35.5%)	23 (35.9%)		
Desert Area/Trail	10 (16.1%)	10 (15.6%)		
Private Residence	17 (27.4%)	17 (26.6%)		
Car	13 (21%)	14 (21.9%)		
Total	62 (100%)	64 (100%)		

Table 10

Heat Associated Deaths by Residency Status					
	Preliminary Results <u>Final Results</u>				
Homeless	9 (8.3%)	9 (8.2%)			
Non-Homeless	99 (91.7%)	101 (91.8%)			
Total	108 (100%)	110 (100%)			

Table 11

Drug and Alcohol Use, as Mentioned on the Death Certificate, for Heat-**Associated Deaths by Homelessness Preliminary Preliminary Final Results Final Results** 'No' Drug and/or Results Results Drug and/or Drug and/or 'No' Drug **Alcohol Use Alcohol Use** and/or Alcohol **Alcohol Use** Use Homeless 4 (12.5%) 5 (6.6%) 4 (12.5%) 5 (6.4%) Non-71 (93.4%) 28 (87.5%) 28 (87.5%) 73 (93.6%) **Homeless** 76 (100%) Total 32 (100%) 32 (100%) **78** (100%)

Table 12

Drug and Alcohol Use, as Mentioned by the Medical Examiner, for Heat- Associated Deaths by Homelessness				
	Preliminary Preliminary Final Results Final Results Results Preliminary Final Results Final Results Drug and/or Orug and/or Alcohol Use Alcohol Use Alcohol Use Orug and/or Orug and/or Orug and/or Orug a			
Homeless	4 (10%)	5 (7.4%)	4 (10%)	5 (7.1%)
Non- Homeless	36 (90%)	63 (92.6%)	36 (90%)	65 (92.9%)
Total	40 (100%)	68 (100%)	40 (100%)	70 (100%)