



## DoD Numbers for Traumatic Brain Injury Worldwide – Totals

2010

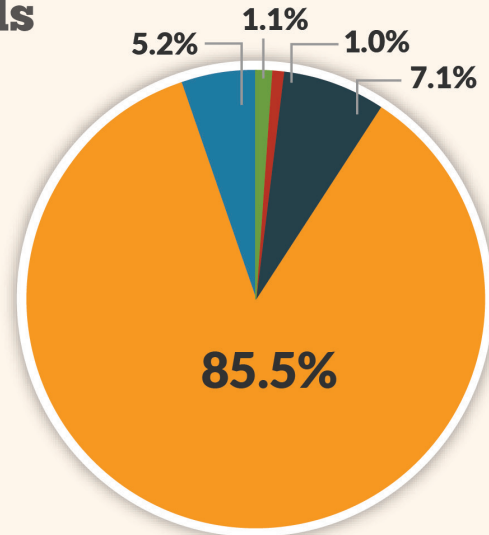
Penetrating	331
Severe	291
Moderate	2,088
Mild	25,122
Not Classifiable	1,536

**Total - All Severities 29,368**

Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Center (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

\*Percentages do not add up to 100% due to rounding



2010, as of June 21, 2018

Effective October 2015, the International Classification of Diseases was updated. With the improved information, more moderate traumatic brain injuries can be counted. Previously, some cases were categorized as “unclassifiable” severity due to more limited surveillance information. Also in 2015, the Assistant Secretary of Defense clarified the TBI case definition. A subsequent review found that some of the remaining “unclassifiable” cases were likely moderate TBI. This change also will contribute to higher counts of moderate TBI surveillance cases.

Worldwide numbers represent medical diagnoses of TBI that occurred anywhere U.S. forces are located including the continental United States since 2000.

**Concussion/Mild TBI is characterized by the following:** Confused or disoriented state which lasts less than 24 hours; or loss of consciousness for up to 30 minutes; or memory loss lasting less than 24 hours. Excludes penetrating TBI. A CT scan is not indicated for most patients with a Mild TBI. If obtained, it is normal.

**Moderate TBI is characterized by the following:** Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 30 minutes, but less than 24 hours; or memory loss lasting greater than 24 hours but less than seven days; or meets criteria for Mild TBI except an abnormal CT scan is present. Excludes penetrating TBI. A structural brain imaging study may be normal or abnormal.

**Severe TBI is characterized by the following:** Confused or disoriented state which lasts more than 24 hours; or loss of consciousness for more than 24 hours; or memory loss for more than seven days. Excludes penetrating TBI. A structural brain imaging study may be normal but usually is abnormal.

**Penetrating TBI, or open head injury, is characterized by the following:** A head injury in which the scalp, skull and dura mater (the outer layer of the meninges) are penetrated. Penetrating injuries can be caused by high-velocity projectiles or objects of lower velocity such as knives, or bone fragments from a skull fracture that are driven into the brain.

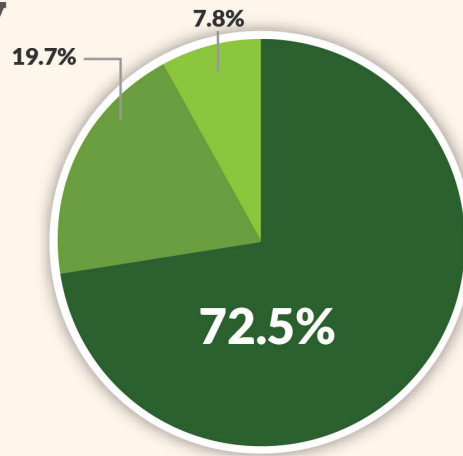


## DoD Numbers for Traumatic Brain Injury Worldwide – Army

2010

Active	13,515
Guard	3,676
Reserve	1,456

**Total - Army** 18,647



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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2010, as of June 21, 2018

Service	Component	Severity	Diagnosed
Army	Active	Penetrating	175
		Severe	141
		Moderate	971
		Mild	11,371
		Not Classifiable	857
	Guard	Penetrating	39
		Severe	40
		Moderate	236
		Mild	3,107
		Not Classifiable	254
	Reserve	Penetrating	12
		Severe	22
		Moderate	107
		Mild	1,204
		Not Classifiable	111

2010, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)  
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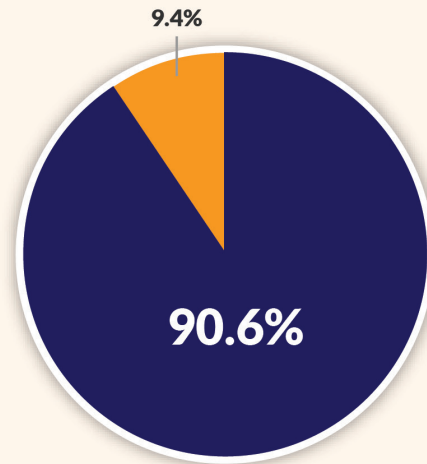
## DoD Numbers for Traumatic Brain Injury Worldwide – Navy

2010

Active	2,591
Reserve	269

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**Total - Navy** 2,860



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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2010, as of June 21, 2018

Service	Component	Severity	Diagnosed
Navy	Active	Penetrating	16
		Severe	22
		Moderate	164
		Mild	2,312
		Not Classifiable	77
	Reserve	Penetrating	3
		Severe	3
		Moderate	20
		Mild	233
		Not Classifiable	10

2010, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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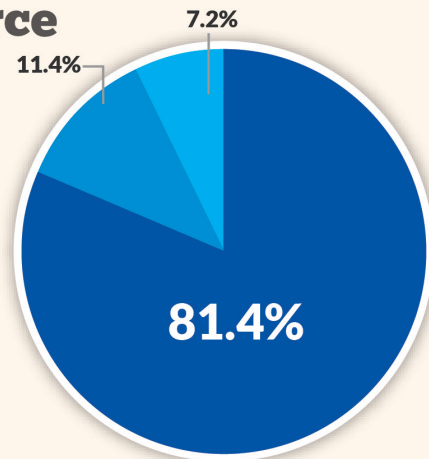
## DoD Numbers for Traumatic Brain Injury Worldwide – Air Force

2010

■ Active	2,770
■ Guard	388
■ Reserve	244

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**Total - Air Force**                      **3,402**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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2010, as of June 21, 2018

Service	Component	Severity	Diagnosed
Air Force	Active	Penetrating	26
		Severe	14
		Moderate	187
		Mild	2,492
		Not Classifiable	51
	Guard	Penetrating	4
		Severe	1
		Moderate	28
		Mild	344
		Not Classifiable	11
	Reserve	Penetrating	4
		Severe	3
		Moderate	23
		Mild	207
		Not Classifiable	7

2010, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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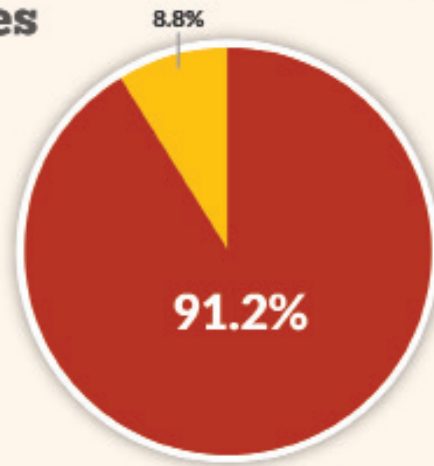
## DoD Numbers for Traumatic Brain Injury Worldwide – Marines

2010

Active	4,068
Reserve	391

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**Total - Marines**                      **4,459**



Source: Defense Medical Surveillance System (DMSS), Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

Prepared by the Defense and Veterans Brain Injury Center (DVBIC)

2010, as of June 21, 2018

Service	Component	Severity	Diagnosed
Marines	Active	Penetrating	45
		Severe	37
		Moderate	314
		Mild	3,530
		Not Classifiable	142
	Reserve	Penetrating	7
		Severe	8
		Moderate	38
		Mild	322
		Not Classifiable	16

2010, as of June 21, 2018

Source: Defense Medical Surveillance System (DMSS) and Theater Medical Data Store (TMDS) provided by the Armed Forces Health Surveillance Branch (AFHSB)

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