

Data Dictionary

Field Name on Data Page	Field Definition	Unit	Variable type
Obs #	ID number of tests or observations. (1, 2, 3, ..., 200)	N/A	Categorical
Helmet Type	ID number of the human types: 0 – without helmet; 1- basic helmet model A; 2 – basic helmet model B; 3 – advanced helmet model A; 4 – advanced helmet model B.	N/A	Categorical
Chin Strap	With or without chin strap use: 0 – without chin strap; 1 – with chin strap	N/A	Categorical
Suspension	Suspension tightness levels: 1 – Tight; 2 – Comfortable; 3 – Loose.	N/A	Categorical
Surface	Impact surface conditions: 1 – Concrete impact surface; 2 – Plywood-covered impact surface.	N/A	Categorical
Trial	Test repetition: 1 – 1st replicate; 2 – 2 nd replicate; 3 – 3 rd replicate; 4 – 4 th replicate.	N/A	Categorical
Acc	Peak head acceleration	G	Numerical
HIC	Head impact criteria	$s \cdot G^{2.5}$	Numerical
G	Earth gravitation 9.8	m / s^2	Numerical