

Crash Test Video Log.

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Live full scale human volunteer crash testing and Bio-Rid dummy testing at various speeds and collision vectors. These crashes evaluate the risk for injury. By performing these crash tests we are able to better understand the occupant kinematics that occur in specific collisions dependent on vector, force and risk factors as well as the interaction between two vehicles in collisions of different nature.

Vc = Closing Velocity

Delta V = Change in Velocity

Acceleration = Head Linear Acceleration

-- = Did not record

Collision Vector	Video #	Vc (MPH)	Delta V	Acceleration (g)	Make/Model/Year	Male/Female
Disc 1					See Disc 1 Vehicles Below	
Rear	S99-1	5.4	--	--		M
Rear	S99-2	9.3	5.2	12.5		M
Rear	S99-3	9.9	6	13		M
Rear	S99-6	6.6	5.6	13.5		F
Rear	S99-7	4.1	3.3	6.8		F
Rear	S99-9	7	5.2	8.9		F

Collision Vector	Video #	Vc (MPH)	Delta V	Acceleration (g)	Make/Model/Year	Male/Female
Side	S99-10	7.6	3.1	4.6		F
Side Swipe	S99-14	14	--	1.2		F
Front	S99-15	36.9	17.1	10.3		M
Rear	S00-1	4.8	3.8	5		M
Rear	S00-2	7.8	5.8	12.7		M
Rear	S00-3	8.3	5.9	8.2		M
Front	S00-5	3.8	--	1.6		M
Front	S00-6	7.7	5.5	2.9		M
Front	S00-8	7.9	5.6	3.1		F
Front	S00-9	9.9	7.1	4.6		F
Rear	S00-10	3	2.8	2.9		F
Rear	S00-11	7.5	6	12.8		F
Rear	S00-12	8.6	6.7	15		F
Rear	S00-13	3.6	2.9	4		M
Rear	S00-14	5.5	4.7	7.8		M
Rear	S00-15	7.2	5.8	4.3		M
Front	S00-16	2.7	--	1.3		M

Collision Vector	Video #	Vc (MPH)	Delta V	Acceleration (g)	Make/Model/Year	Male/Female
Front	S00-17	7.2	4.2	--		M
Front	S00-18	9.9	5.6	--		M
Front	S00-19	--	--/15.7	--		M
Disc 2					See Disc 2 Vehicles Below	
Frontal Braced	S01-1	4	3.5	1.9		M
Frontal Braced	S01-2	7.5	5.1	--		M
Front	S01-3	8.3	5.3	3.3		M
Rear	S01-4	3.8	2.7	3.5		F
Rear	S01-5	8.1	5	7.8		F
Rear Braced	S01-6	8	4.8	5		F
Rear	S01-7	4.4	4.3	6		M
Rear	S01-8	5.6	4.7	7.3		M
Rear Braced	S01-9	5.9	5	2.4		M
Frontal Braced	S01-10	5	4.7	1.9		M

Collision Vector	Video #	Vc (MPH)	Delta V	Acceleration (g)	Make/Model/Year	Male/Female
Frontal Braced	S01-11	8.7	7.1	3.6		M
Frontal Braced	S01-12	8.4	6.8	3.7		M
Oblique Far Side Braced	S01-13	16.2	2.9 x 5.8 y	3.0 x 3.3 y		M
Head On Braced	S01-14	49	23.8 Taur 25.2 Imp.	40.0 Taur 26.0 Imp	Taurus Impala	M
Rear	S02-1	5.2	3.7	4.9		M
Rear	S02-2	7.7	5.4	5.7		M
Rear	S02-3	10	6.8	7.7		M
Rear	S02-4	5.6	4.1	6.3		M
Rear	S02-5	7.4	5.2	6		M
Rear	S02-6	9.3	6.4	7.7		M
Rear	S02-7	5.4	3.4	3		M
Rear	S02-8	6.9	4.9	4		M
Rear	S02-9	9.5	5.6	7.1		M
Rear	S02-10	12.3	7.7	12.1		M
Rear	S02-11	14.6	9	--		M

Collision Vector	Video #	Vc (MPH)	Delta V	Acceleration (g)	Make/Model/Year	Male/Female
Rear	S02-12	16.2	10.8	20.6		M
Far Side 90 Degree	S02-13	6.2	4	1.7		M
Rear	S02-14	20.9	15.4	14.4		M

Disc 1 Crash Test Vehicles:

1. 1991 Lincoln Continental 4 Door, Executive Series. Vin: 1LNCM9747MY646735. Weight 3320 lb
2. 1991 Honda Civic DX 4 Door, Vin: JHMED3641MSO13953. Weight 2135 lb
3. 1989 Ford Tempo LX 4 Door, Vin: 1FAPP37X2KK176690. Weight 2490 lb
4. 1992 Chrysler Le Baron Convertible. Vin: 1CEXU4535NF267706. Weight 3100 lb
5. 1992 Ford Taurus 4 Door. Vin: 1FACP5249NG221140. Weight 3200 lb
6. 1994 Hyundai Excel 2 Door. Vin: KMHVD12J8RU299597. Weight 2040 lb

Disc 2 Crash Test Vehicles:

1. 2000 Chevrolet Impala. Vin: 2G1WF55E0Y9151179. Weight 3389 lb
2. 1996 Chevrolet Cavalier. Vin: 1G1JC1245TM121680. Weight 2537 lb
3. 1994 Ford Taurus. Vin: 1FALP52UXRG159477. Weight 3200 lb
4. 1994 Chrysler Le Baron. Vin: 1C3XJ45JZK0228648. Weight 3100 lb
5. 1989 Toyota Corolla. Vin: JT2AE91A8L3342499. Weight 2253 lb
6. 1994 Ford Crown Victoria. Vin: 2FALP71WORX192531. Weight 3800 lb.