



Motorcycle Operator Safety Training Program Annual Report FY 2012



Colorado Department of Transportation

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FY 2012 MOST Program Highlights and Fatality Data

In FY 2012 (July 1, 2011 to June 30, 2012):

16 MOST Vendors located in 16 counties provided motorcycle training to 11,349 students from throughout Colorado – the highest number to date. MOST courses were offered at 41 locations with many of those training sites utilizing multiple ranges, taught by more than 150 RiderCoaches. From 2008 through 2012 more than 40,000 students have attended MOST training.

Students participated in the following classes:

- Basic Rider Course (BRC) – 9,922
- Experienced Course (BRC 2) – 1,182
- Advanced Rider Course (ARC) – 67
- RiderCoach Preparation (RCP) – 47
- RiderCoach Update (RCU) – 131

Motorcycle Fatalities

79 operators and passengers were killed in motorcycle crashes in 2012 (75 operators, 4 passengers).

- Motorcycle fatalities represented 17% of the state's total traffic fatalities (79 of 468)
- Motorcycle fatalities were up slightly from 78 in 2011 and down by 20% from a record high of 98 fatalities in 2008
- The slight increase in motorcycle deaths corresponds with trends in overall traffic fatalities, which were up 4% in 2012 but have declined 15% since 2008

2012 Statistics

- 28 (37%) of motorcycle operators killed did not have a motorcycle endorsement on their drivers license
- 54 (68%) of motorcycle operators involved in fatal crashes were determined to be “at fault”
- 35 (44%) of the fatal crashes involved only the motorcycle and no other vehicle
- 52 (69%) % of the motorcycle operators killed were not wearing a helmet
- 4 (100%) of the motorcycle passengers killed were not wearing a helmet

2009 – 2012 (Calendar Year) Motorcycle Fatalities by County and Age

Fatalities by County	2009	2010	2011	2012	Total by County
Adams	7	6	5	3	21
Alamosa		2	1		3
Arapahoe	7		7	6	20
Archuleta			1		1
Bent		1			1
Boulder	6	5	1	7	19
Broomfield	1				1
Chaffee				2	2
Cheyenne				1	1
Conejos			1		1
Custer	2	1	1		4
Delta	1		1	2	4
Denver	3	9	6	3	21
Dolores		3			3
Douglas	3	2	2	2	9
El Paso	11	8	15	11	45
Elbert	1			2	3
Freemont	1			1	2
Garfield	2	4			6
Grand	2		1		3
Gunnison	2	2	1	1	6

Fatalities by County	2009	2010	2011	2012	Total by County
Hinsdale			1		1
Jefferson	7	8	6	9	30
Kit Carson			1		1
La Plata	4	3		4	11
Lake		1	1		2
Larimer	13	5	2	3	23
Mesa	1	1	5	2	9
Moffat		1	1	1	3
Montezuma			3		3
Montrose	1	1	3		5
Morgan		1		2	3
Ouray	1				1
Park		1	1	1	3
Pitkin		1			1
Prowers	1				1
Pueblo	2	8	4	4	18
Saguache	1				1
San Juan	1				1
San Miguel			1	1	2
Summit	1	1	3		5
Weld	6	7	4	11	28
Total	88	82	78	79	328

Motorcycle Fatalities by Age Group

The following counties had no motorcycle fatalities from 2009-2012:

Baca	Logan
Clear Creek	Mineral
Costilla	Otero
Crowley	Phillips
Eagle	Rio Blanco
Gilpin	Rio Grande
Huerfano	Routt
Jackson	Sedgewick
Kiowa	Teller
Las Animas	Washington
Lincoln	Yuma

Age/Year	2009	2010	2011	2012
Under 20	3	1	3	1
20's	19	13	17	15
30's	9	11	7	11
40's	17	25	13	14
50's	25	21	25	26
60's	12	7	10	10
70's	3	4	3	2
Total	88	82	78	79

Motorcycle fatalities age 40 and over represented 70% of fatalities in 2010, 65% in 2011, and 66% in 2012.

Motorcycle Crash Data

The CDOT MOST staff compared crash records for accidents involving MOST students from 2009-2012 to CDOT Traffic and Safety Engineering Branch overall motorcycle crash records and found that:

- Statewide in 2012, there were 101,388 total vehicle crashes and 2,539 of those involved motorcycles
- Motorcyclist-at-fault crashes totaled 1,644, and of those 120 were MOST students
- FY2012 motorcycle crashes involving alcohol or drug use included 213 alcohol-related and 24 drug-related crashes of which only 3 alcohol-related crashes involved MOST students

2012 Most Prevalent Citations to Motorcycle Riders in Crashes

Ranking	Citation	All Motorcycle Operators	MOST Students
1	Careless Driving	1,787	53
2	Careless Driving Causing Injury	227	6
3	Following Too Close	217	5
4	Reckless Driving	131	1
5	Improper Driving On Mountain Highway	124	2
6	Driver License Class/Type	86	3
7	Driving Under Influence of Alcohol	72	1
8	No Insurance In Possession	70	2
9	Failure To Drive In Designated Lane	65	0
10	Failure To Drive In Single Lane	53	1

Motorcycle Involved Crash – License Endorsement Compliance 2012

Endorsement Status	Statewide	MOST Students
No Driving Endorsements	513	37
Endorsement Required and Compiled With	1,691	109
Endorsement Required and Not Compiled With	340	15
Endorsement Required and Compliance Not Known	46	0

Motorcycle Crash Data

2012 First Harmful Event – Prevalence in Motorcycle Crashes

Ranking	Event	All Motorcycle Operators	MOST Students
1	Overtaking	1,320	25
2	Front to Rear	273	10
3	Curb	245	10
4	Other Non-Collision	203	5
5	Front to Side	159	3
6	Wild Animal	115	3
7	Guard Rail	93	3
8	Side to Side - Same Direction	73	3
9	Other Object	64	3
10	Embankment	54	3

2012 Motorcycle Crashes – Helmet Use

	Helmet Used Operator	Helmet Used Passenger	No Helmet Used Operator	No Helmet Used Passenger
Statewide	1,246	137	1,029	139
MOST Students	94	9	43	4

2012 Motorcycle Crashes by Road Description

Road Description	All Motorcycle Crashes	MOST Students
At Intersection	676	44
Driveway Access Related	204	16
Intersection Related	271	15
Non-intersection	1,284	72
Alley Related	15	3
Roundabout	20	11
Ramp	55	1
Parking Lot	7	
Total	2,532	162

Motorcycle Registrations by County

County	2008	2009	2010	2011	Total
Adams	12,783	12,992	13,443	14,189	53,407
Alamosa	497	534	524	530	2,085
Arapahoe	14,547	14,437	14,779	15,453	59,216
Archuleta	605	642	624	661	2,532
Baca	117	140	141	149	547
Bent	130	134	150	127	541
Boulder	9,963	9,974	10,061	10,580	40,578
Broomfield	1,725	1,811	1,864	2,019	7,419
Chaffee	1,017	1,083	1,106	1,118	4,324
Cheyenne	84	85	88	89	346
Clear Creek	665	663	673	695	2,696
Conejos	297	327	323	323	1,270
Costilla	170	161	166	165	662
Crowley	99	100	104	98	401
Custer	274	290	287	285	1,136
Delta	1,265	1,273	1,258	1,300	5,096
Denver	11,124	11,355	11,591	12,341	46,411
Dolores	114	121	112	124	471
Douglas	9,602	9,795	10,040	10,339	39,776
Eagle	2,071	2,104	2,026	2,116	8,317
El Paso	22,653	22,480	22,514	23,555	91,202
Elbert	1,305	1,269	1,289	1,340	5,203
Freemont	2,441	2,376	2,406	2,432	9,655

County	2008	2009	2010	2011	Total
Garfield	2,423	2,435	2,349	2,290	9,497
Gilpin	456	476	489	502	1,923
Grand	771	772	755	765	3,063
Gunnison	847	903	898	876	3,524
Hinsdale	68	75	75	81	299
Huerfano	256	264	247	269	1,036
Jackson	55	62	55	62	234
Jefferson	21,358	21,621	21,845	22,654	87,478
Kiowa	34	36	36	42	148
Kit Carson	293	304	301	303	1,201
La Plata	2,793	2,759	2,783	2,855	11,190
Lake	257	266	267	276	1,066
Larimer	12,616	12,719	12,627	13,295	51,257
Las Animas	631	648	610	631	2,520
Lincoln	191	189	188	199	767
Logan	728	763	786	858	3,135
Mesa	5,594	5,734	5,712	5,983	23,023
Mineral	62	61	58	67	248
Moffat	578	602	622	583	2,385
Montezuma	1,006	988	1,014	1,049	4,057
Montrose	1,553	1,609	1,606	1,564	6,332
Morgan	994	1,028	1,047	1,094	4,163
Otero	697	716	704	709	2,826

Motorcycle Registrations by County

County	2008	2009	2010	2011	Total
Ouray	375	398	387	408	1,568
Park	1,352	1,294	1,317	1,304	5,267
Phillips	225	234	232	223	914
Pitkin	1,199	1,237	1,186	1,217	4,839
Prowers	410	423	411	445	1,689
Pueblo	5,761	5,760	5,781	5,824	23,126
Rio Blanco	251	273	282	277	1,083
Rio Grande	461	507	489	497	1,954
Routt	1,357	1,309	1,261	1,319	5,246
Saguache	265	258	267	264	1,054
San Juan	71	71	71	74	287
San Miguel	642	595	591	618	2,446
Sedgwick	69	73	77	92	311
Summit	1,246	1,288	1,323	1,336	5,193
Teller	1,540	1,524	1,572	1,586	6,222
Washington	210	226	213	221	870
Weld	9,608	9,570	9,965	10,512	39,655
Yuma	393	420	440	455	1,708
State Issued	273	279	377	467	1,396
Total	173,517	174,915	176,885	184,174	709,491



MOST Course Curriculum

In FY 2012 the MOST program offered three motorcycle training curricula. All are certified by the Motorcycle Safety Foundation.

Basic Rider Course (BRC)

The Basic Rider course is the best place for a new rider to start, once they've made the decision to ride. Successful completion of this course including both knowledge and skill tests, consists of approximately five hours of classroom and 10 hours of on-cycle instruction, conducted over two or three sessions. This course may serve as a license test waiver program in some states.

Motorcycles and helmets are provided for the students' use during the course. A course completion card may provide a rider with an insurance discount. In some states, this course may lead to only a motorcycle permit, and may require completion of the BRC2 to obtain full licensure.

Basic Rider Course 2 - License Waiver (BRC2-LW)

Formerly known as part of the Experienced Rider Suite, this course is for riders who already have basic skills. It is similar to the BRC except the speeds are higher and riders should be riding their own motorcycle. It is an excellent refresher course for practicing and renewing basic riding skills. There is an informal classroom component that discusses safety concepts based on past riding experiences and current knowledge. For a BRC2 that does not include the license waiver component (no classroom activities and no knowledge or skill test), there is a skills practice course.

Basic Rider Course 2 - Skills Practice (BRC2-SP)

This course is similar to the BRC2 - License Waiver Rider Course, but consists of only the riding exercises. It is a perfect way to reinforce basic skills on one's personal motorcycle. Passengers are permitted with a licensed operator on a personal motorcycle during these riding exercises.

Advanced Rider Course (ARC)

This one-day course (formerly called the Experienced Rider Course) complements a rider's basic skills and helps with personal risk assessment. It includes a fast-paced classroom segment with several interactive activities to improve perception and hazard awareness. Range exercises enhance both basic skills and crash avoidance skills. Improving braking and cornering finesse is emphasized. The course is beneficial for riders on any type of street motorcycle.

MOST Training Vendors

All MOST vendors are subject to MOST Rules and Regulations as defined in 2 CCR 602-3. The MOST Rules can be found at the following link:

<http://www.coloradodot.info/programs/live-to-ride/documents/MOSTRulesRegsOldVersion.pdf/view>

MOST Vendors/Websites	FY 2012 Funding	Balance	Students Trained
1. ABATE of Colorado/ www.abateofcolo.org	\$290,000.01	\$21,165.01	3,847
2. T3RG International/ www.t3rg.com	\$105,000.00	\$12,790.00	1,334
3. Motorcycle Training Academy/ www.motorcycletrainingacademy.com	\$150,000.00	\$13,444.79	2,021
4. Iron Buffalo/ www.mcsafety.com	\$95,000.00	\$25,951.31	959
5. Motorcycle Rider Training Center www.MotorcycleRiderTrainingCenter.com	\$50,000.00	\$8,970.53	571
6. Wheels in Motion/ www.WheelsInMotionInc.com	\$40,000.00	\$20,306.57	255
7. Black B.A.G. LLC/ www.bbmct.com	\$35,000.00	\$6,857.08	444
8. Southwest Colorado Motorcycle Safety Training www.motorcyclesafetyswco.homestead.com	\$30,000.00	\$15,197.99	205
9. Ricky Orlando Motorcycle School www.rickyorlando.com	\$25,000.00	\$9,890.50	215
10. Rocky Mountain Motorcycle Training www.RockyMountainMotorcycleTraining.com	\$20,000.00	\$1,671.07	258
11. Colorado Northwest Rider Training www.mcridersafety.com	\$20,000.00	\$5,885.89	179
12. Full Throttle Motorcycle Academy www.fullthrottleacademy.com	\$45,000.00	\$4,560.00	564
13. Bluecreek Motorcycle Training www.bluecreekmotorcycletraining.com	\$20,000.00	\$6,560.00	224
14. A Better Ability Motorcycle Academy www.abamaclasses.org	\$20,000.00	\$14,820.00	74
15. Iride Pikes Peak Motorcycle Training www.pikespeakharleydavidson.com	\$15,000.00	\$3,015.00	173
16. Sleeping Giant Motorsports www.home.earthlink.net/~sleepinggiantmotos/	\$4,000.00	\$1,605.00	26
Total	\$964,000.01	\$172,690.74	11,349

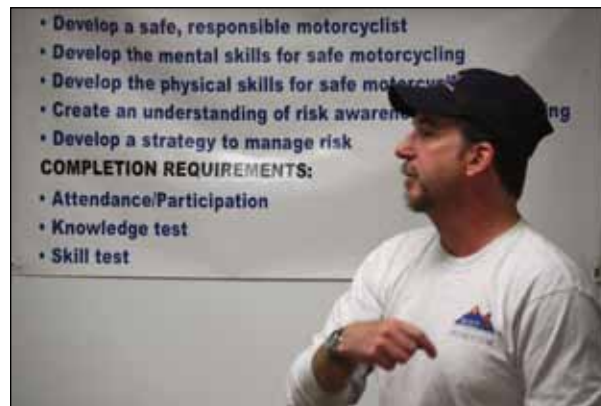
FY 2009 – 2012 Students Trained by Vendor

	2009	2010	2011	2012
Vendor				
ABATE of Colorado	4,029	3,738	3,322	3,847
T3RG International	1,983	1,272	1,321	1,334
Motorcycle Training Academy	2,153	1,268	1,280	2,021
Iron Buffalo	1,087	838	784	959
Wheels in Motion	499	375	377	255
Motorcycle Rider Training Center	564	529	551	571
SW CO Motorcycle Safety Training	339	250	211	205
Black B.A.G. LLC	522	368	376	444
Rocky Mountain Motorcycle Training	306	162	210	258
CO Northwest Rider Training	218	101	131	179
Ricky Orlando Motorcycle School	175	232	381	215
Cronk's PRS (Bad Axe)	43	15	0	0
Full Throttle Motorcycle Academy			84	564
Bluecreek Motorcycle Training			114	224
A Better Ability Motorcycle Academy			93	74
Iride Pikes Peak Motorcycle Training			0	173
Sleeping Giant Motorsports			11	26
Total	11,918	9,148	9,246	11,349



FY 2012 Motorcycle Training Courses by County and Month

	2011						2012						TOTAL
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	
COUNTY													
Adams	30	34	16	15	9	2	0	3	12	29	33	36	219
Arapahoe	27	21	19	10	6	21	1	3	19	30	29	24	210
Denver	7	4	3	2	2	1	0	1	5	4	9	8	46
Boulder	5	4	3	1	1	0	0	0	2	4	4	4	28
El Paso	25	26	39	15	5	2	2	3	10	25	30	33	215
Jefferson	24	22	17	8	3	0	0	3	17	22	28	44	188
La Plata	4	3	5	4	0	0	0	0	2	0	4	4	26
Larimer	3	6	5	3	2	2	0	0	5	4	6	3	39
Mesa	4	3	3	2	1	0	0	0	0	2	3	5	23
Moffat	3	1	0	0	0	0	0	0	0	0	1	2	7
Montrose	3	2	2	0	0	0	0	0	0	1	1	2	11
Morgan	0	2	1	1	2	0	0	0	2	2	0	0	10
Otero	0	2	3	1	0	0	0	0	0	0	0	0	6
Pueblo	4	3	3	3	0	0	0	0	2	4	4	3	26
Summit	3	1	1	0	0	0	0	0	0	0	2	4	11
Weld	3	6	3	1	3	0	0	2	5	3	6	6	38
Total Courses Conducted	145	140	123	66	34	28	3	15	81	130	160	178	1,103



FY 2012 MOST Program Funding

The MOST program provides tuition reimbursement to students and is funded by a \$2.00 fee collected on motorcycle endorsements and a \$4.00 fee collected on motorcycle registrations. Colorado statutes mandate that funds not spent during the Fiscal Year be carried forward to the next Fiscal Year operating cycle. The MOST program is set up to distribute funding to CDOT in three areas:

- MOST Administration – maximum of 15%
- MOST Out of State Travel – \$3,000.00 per FY (Included in MOST Administration)
- MOST Contracts – Funds are allocated to MOST training Vendors to be used as tuition subsidies in order to reduce the amount students pay for enrollment and training fees.

The 15% administrative fee is calculated using the total collected registration and endorsement fees for the Fiscal Year before any carry forward is added to the FY budget. The administrative costs for the program are outlined in the MOST Rules and Regulations, Section 12, paragraph A, subsection 1:

“The administrative costs directly related to the MOST program, including personal services costs, operating costs, capital equipment costs and travel costs in accordance with applicable state law and fiscal rules, but in no event shall the office expend more than fifteen percent of the total cost of the program for administrative costs.”

For each Colorado resident and military student, the state reimburses the MOST program vendors \$70.00 for the Basic Rider Course, \$45.00 for the Basic Rider Course 2, \$45.00 for RiderCoach Instructor updates, and \$200.00 for each student who wants to become a RiderCoach. These reimbursements are passed on to the student in the form of lower tuition rates.

MOST vendors are required to clearly post on their websites the availability of the tuition subsidies for the Basic Rider Course and the Basic Rider Course 2. Vendors’ websites must also show the Resident and Non-Resident fee structures to show that the subsidies benefit Colorado residents. MOST vendors are required to maintain documentation indicating the amount charged to each student.

MOST vendors offer training year round; however, peak training times are in the spring, summer and fall. Vendors are permitted to charge a competitive fee for their services. Current fees range from \$150.00 to \$250.00 per class depending on the amount set by the vendor and where in the state the training takes place.

FY 2012 MOST Program Budget

REVENUES		
Revenue from motorcycle registration and license endorsement fees		\$683,733.00
Available for Administration	\$102,560.00	
Available for Training Subsidies	\$581,173.00	
Subtotal	\$683,733.00	
Carry Forward From FY2011		\$566,611.64
Total Revenue and Carry Over		\$1,250,344.64
ACTUAL EXPENDITURES		
Total Expenditures		(\$980,491.04)
Training Subsidies	(\$884,347.80)	
Administration	(\$96,143.24)	
Subtotal	(\$980,491.04)	
Carry Forward to FY 2013		\$269,853.60



Appendix A: Authorizing Legislation—Colorado Revised Statutes 43-5-502 to 504

43-5-502. Motorcycle operator safety training program

43-5-503. Instructor requirements and training

43-5-504. Motorcycle operator safety training fund

Detailed information is available at:

<http://www.michie.com/colorado/lpext.dll?f=templates&fn=main-h.htm&cp=>



For more information, contact:

Emiliano Barela
MOST Project Administrator
Colorado Department of Transportation
Office of Transportation Safety
4201 East Arkansas Avenue, 3rd floor
Denver, Colorado 80222
Phone (303) 757-9383
FAX (303) 757-9078
Email: Emiliano.Barela@state.co.us

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Editing and Graphic design by:

Action Staffing Solutions
1409 West 29th Street, Loveland, CO 80538
970-667-4202

Wolfe Unlimited Technical Writing
1015 Cottonwood Drive, Windsor, CO 80550
970-689-1980

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