

CMAQ DETAILED PROJECT LISTING REPORT (FY 2011)

17-February-2012

Fiscal Year = '2011' and Status Selection Criteria = 'ALL' and State = 'Arizona'

STATE	Apportionments	APPORTION. AMOUNT	OBLIGATED AMOUNT	OBLIG. %	PROJECT AMOUNT	PROJECT TYPE	PROJECT TITLE & DESCRIPTION	VOC (Kg/Day)	CO (Kg/Day)	NOx (Kg/Day)	PM 10 (Kg/Day)	PM 2.5 (Kg/Day)	CO2 (MT/Day)	CONTINUING PROJECT?
Arizona		\$0	\$22,171,053	0 %										
Arizona					\$2,075,431	I/M and Other TCMs	El Mirage: Pave Dirt Roads Pave 125th and 127th Ave: Varney Rd to Peoria; and Dysart Ranchettes area: Varney Rd Peoria Ave Dysart Rd and El Mirage				344			
Arizona					\$1,893,290	I/M and Other TCMs	Phoenix: Pave dirt alleys Pave 44 miles of dirt alleys				170			
Arizona					\$1,602,302	I/M and Other TCMs	Surprise: Pave dirt road Pave unpaved roads West of 219th Ave from Pinnacle Peak to Deer Valley				240			
Arizona					\$900,000	I/M and Other TCMs	Maricopa Association of Governments: PM-10 certified street sweepers Purchase PM-10 certified street sweepers region wide				298			
Arizona					\$753,557	I/M and Other TCMs	Phoenix: Pave dirt alleys Pave 18 miles of dirt alleys				70			
Arizona					\$350,000	I/M and Other TCMs	Chandler: Pave Dirt Alleys Pave Dirt Alleys - ten miles at various locations				61			
Arizona					\$325,000	I/M and Other TCMs	Chandler: Pave unpaved road Pave unpaved road on Commonwealth Ave from Hamilton to Ithica				12			
Arizona					\$194,253	I/M and Other TCMs	Maricopa County: Pave dirt road Design pave dirt road on 87th Avenue from Deer Valley Rd to Peoria city limits (Via Montoya Rd)				25			
Arizona					\$80,155	I/M and Other TCMs	Cave Creek: Pave dirt road Design pave unpaved project on Morning Star Road				46			

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Arizona					\$2,166,660	Pedestrian/Bicycle	Mesa: Multi-use Path Construct Consolidated Canal Multi-use Path from Lindsay to Baseline	1	1	1	1			
Arizona					\$800,000	Pedestrian/Bicycle	Arizona Department of Transportation: Install sidewalks and other related work Install curb and gutter and sidewalks along Interstate-17 southbound frontage road between Bethany Home Rd and Northern Ave	1	1	1	1			
Arizona					\$800,000	Pedestrian/Bicycle	Bike/Ped Pedestrian/Bicycle Project - Other - Install curb and gutter and sidewalks along I17 southbound frontage road between Bethany Home and Northern Avenue Committed control measure in plan	1	1	1	1			
Arizona					\$700,000	Pedestrian/Bicycle	Peoria: Multi-use Underpass Acquire right of way design and construct multi-use underpass crossings on New River Trail at Peoria and Olive avenues	1	1	1	1			
Arizona					\$530,000	Pedestrian/Bicycle	Maricopa County: Bike Lanes and Shoulders Construct bike lanes and shoulders on both sides of Forrest Road from McDowell Mountain Rd to Rio Verde Dr	1	1	1	4			
Arizona					\$229,600	Pedestrian/Bicycle	Chandler: Multi-use path Install two pedestrian actuated signals on the Consolidated Canal multi-use path from Germann to Chandler Heights Rd	1	1	1	1			

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Arizona					\$274,565	Shared Ride	Maricopa Association of Governments: Regional Rideshare and Telework Program Regional Rideshare and Telework Program	76	977	226	96			
Arizona					\$217,500	Shared Ride	Maricopa Association of Governments: Trip Reduction Program Trip Reduction Program	133	1,712	382	168			
Arizona					\$135,000	Shared Ride	Maricopa Association of Governments: Travel Reduction Program Capitol Rideshare Program	1	11	2	1			
Arizona					\$3,697,913	Traffic Flow Improvements	Arizona Department of Transportation: Freeway Management System Construct Freeway Management System of dynamic message signs closed circuit television cameras traffic count stations fiber optic cable and associated components on Loop 202 from Loop 101 to Gilbert Rd	3	47	10	1			
Arizona					\$921,887	Traffic Flow Improvements	Mesa: Intelligent Transportation Systems project Install ITS Traffic Signal Conversions Phase 5 at Brown Rd and Lindsay Rd	2	13	7	1			
Arizona					\$700,000	Traffic Flow Improvements	Phoenix: Intelligent Transportation Systems project Construct regional ITS telecommunications expansion	29	284	96	17			
Arizona					\$665,000	Traffic Flow Improvements	Phoenix: Intelligent Transportation Systems project Construct regional fiber optic backbone phase B-1	3	29	10	2			

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Arizona					\$382,200	Traffic Flow Improvements	Maricopa County: Intelligent Transportation Systems project Construct dynamic message signs on Bell Rd from 115th Ave to 55th Ave	1	4	1	1			
Arizona					\$354,410	Traffic Flow Improvements	Tempe: Intelligent Transportation Systems project Design and construct fiber optic cable installation citywide	7	65	24	2			
Arizona					\$344,050	Traffic Flow Improvements	Chandler: Intelligent Transportation Systems project Install fiber optic cable for interconnecting traffic signals on Arizona Ave from the Traffic Management Center to Riggs Rd	1	5	2	1			
Arizona					\$239,880	Traffic Flow Improvements	Phoenix: Intelligent Transportation Systems project Develop ITS Strategic Plan	22	210	71	13			
Arizona					\$220,000	Traffic Flow Improvements	Arizona Department of Transportation: Freeway Management System Design Freeway Management System on SR 51 from Bell Rd to Loop 101	2	28	6	1			
Arizona					\$218,400	Traffic Flow Improvements	Tempe: Intelligent Transportation Systems project Install wireless communications and closed circuit television at various intersections	6	59	22	1			
Arizona					\$150,000	Traffic Flow Improvements	Surprise: Intelligent Transportation Systems project Construct fiber optic interconnection of traffic signals cameras and variable message signs on Bell Rd at US 60 to Surprise Traffic Management Center	2	24	8	1			

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Arizona					\$150,000	Traffic Flow Improvements	Chandler: Intelligent Transportation Systems project Design fiber communications from signals on Ray and Elliot and Dobson connecting at Arizona Ave back to Traffic Management Center	1	12	5	1			
Arizona					\$100,000	Traffic Flow Improvements	Maricopa County: Intelligent Transportation Systems project Upgrade traffic signals and CCTV cameras at five different locations	1	4	2	1			
Nationwide Totals		\$0	\$22,171,053	0 %										

States without ozone or CO Nonattainment or maintenance areas QA - Qualitative Assessment PR - Previously Reported c - Changed benefit from previous year r

FIGURE 1 - CMAQ OBLIGATIONS FOR FY 2011

Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

CMAQ Obligations

by Type of Project

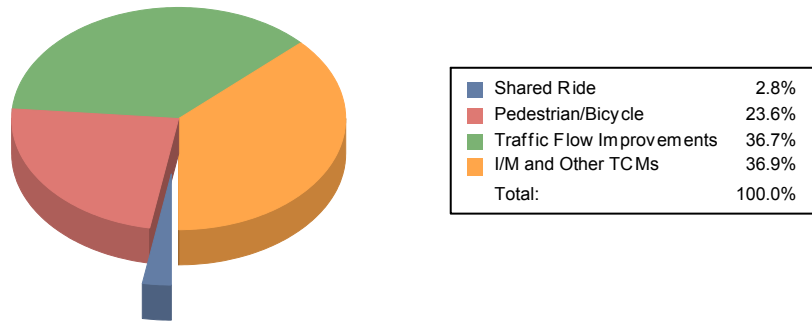


Figure - 2 : Type of Proposals Funded by Category in FY 2011

Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

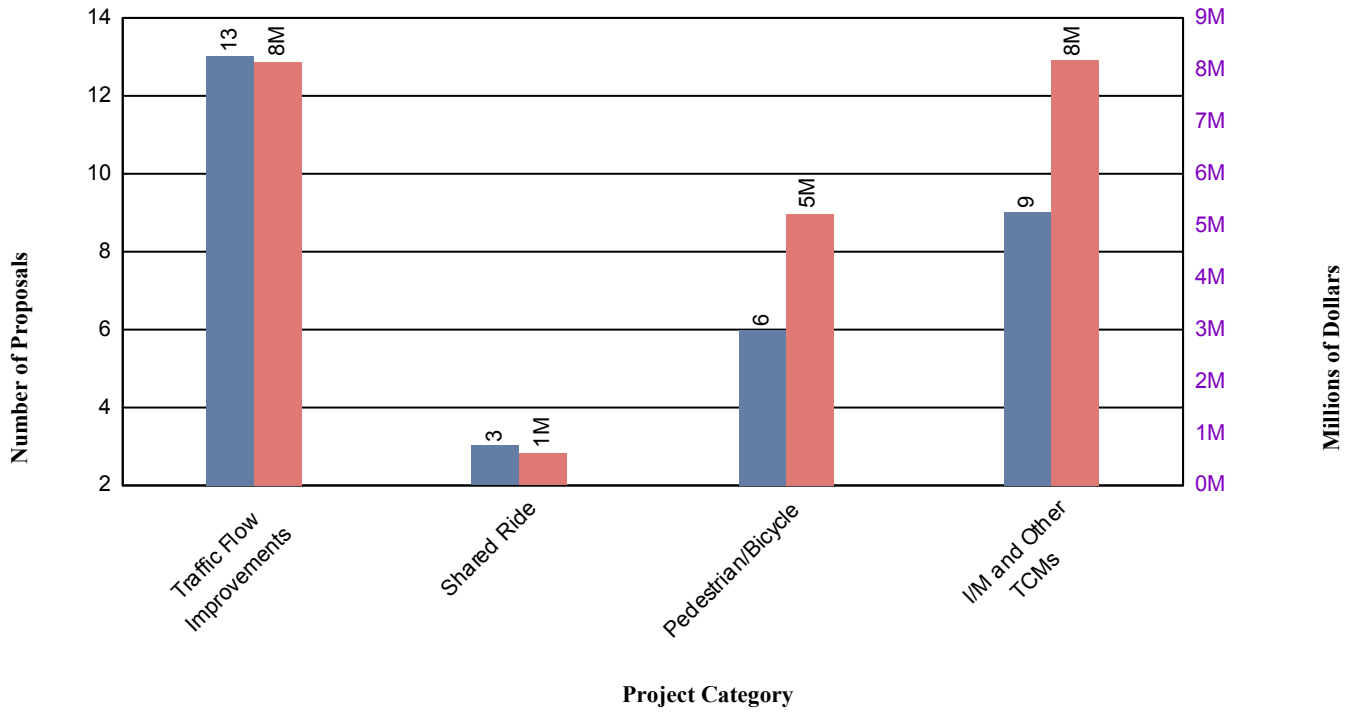
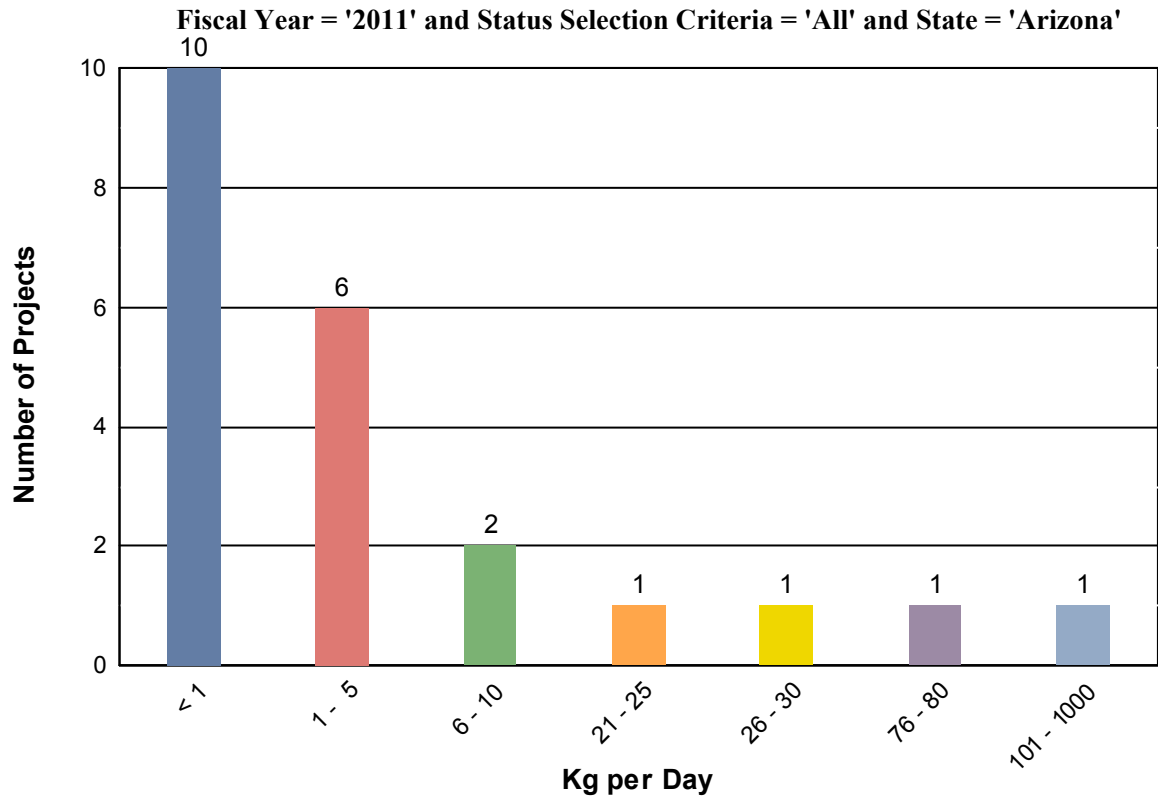
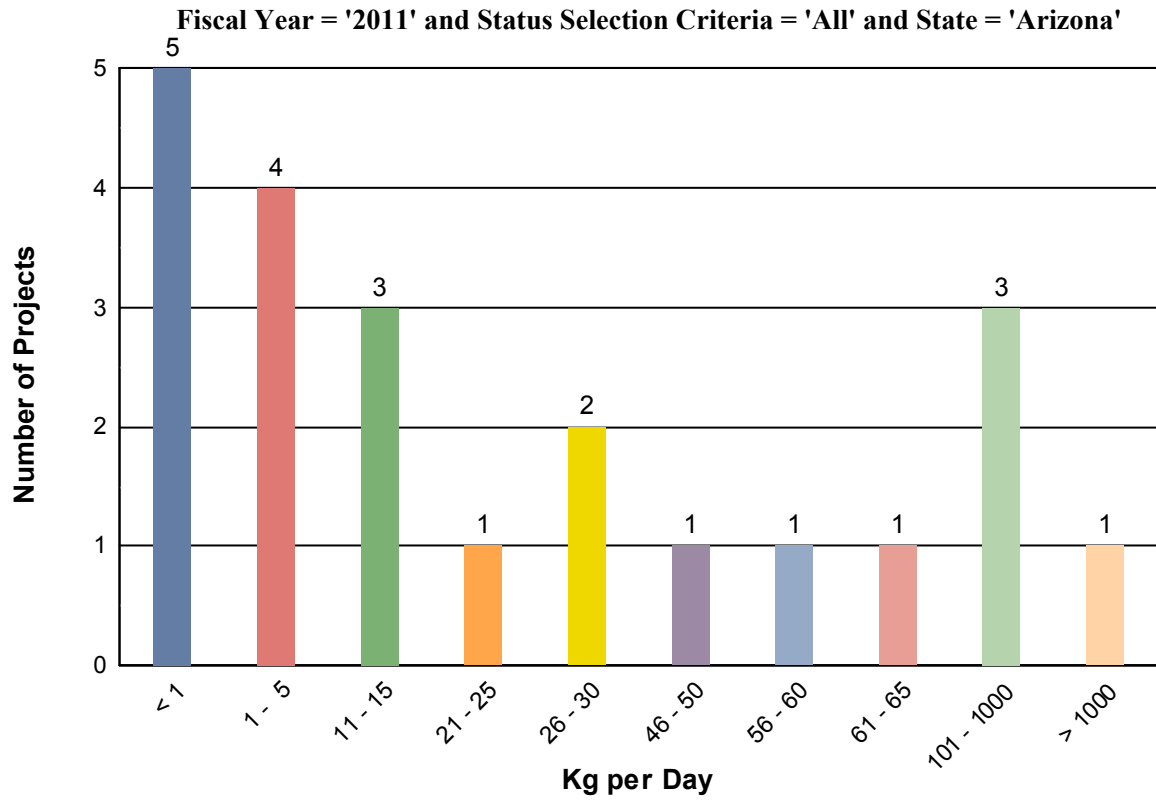


FIGURE 3 - Expected VOC Emission Reductions (FY 2011)



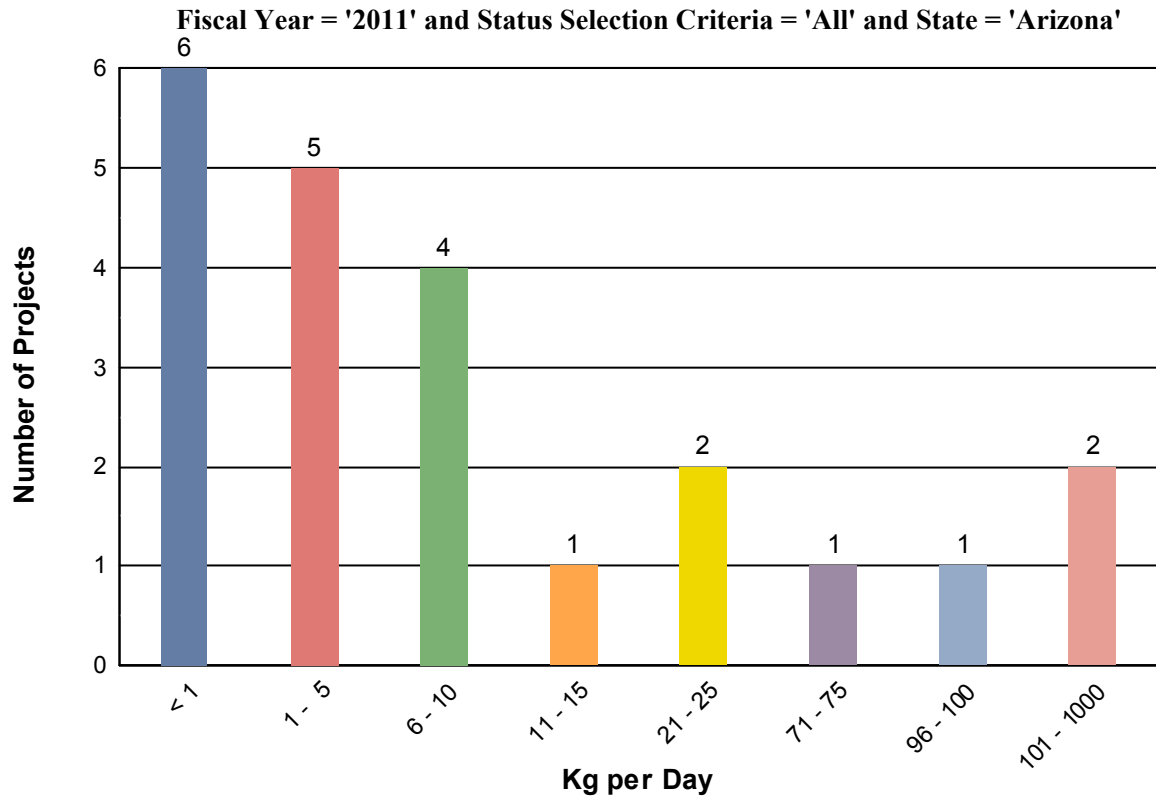
NOTE: Emissions reductions are provided without comment to their accuracy

FIGURE 4 - Expected CO Emission Reductions (FY 2011)



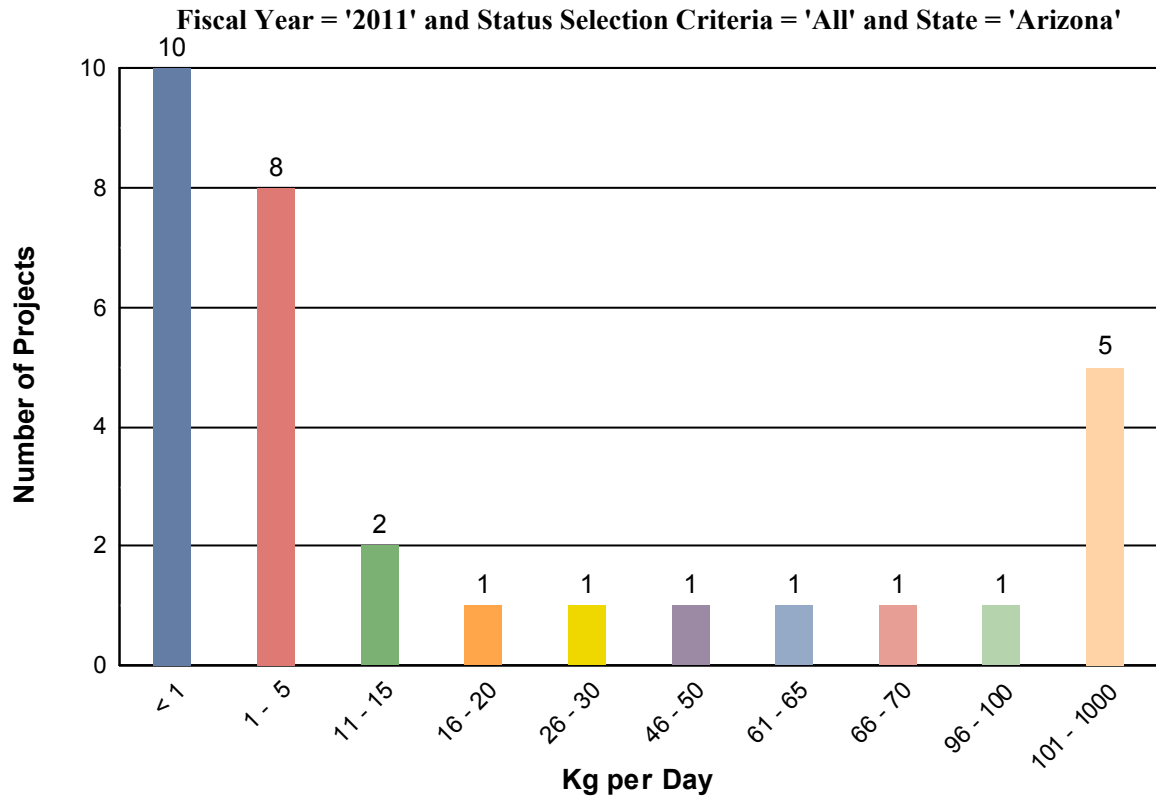
NOTE: Emissions reductions are provided without comment to their accuracy

FIGURE 5 - Expected NOx Emission Reductions (FY 2011)



NOTE: Emissions reductions are provided without comment to their accuracy

FIGURE 6 - Expected PM-10 Emission Reductions (FY 2011)



NOTE: Emissions reductions are provided without comment to their accuracy

Table 3 - FY2011 Project Types and Emissions Benefits Calculations

Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Proposal Category	Number of Proposals Funded	Proposals with Emissions Benefits	Percent with Benefits Reported
I/M and Other TCMs	9	9	100 %
Pedestrian/Bicycle	6	6	100 %
Shared Ride	3	3	100 %
Traffic Flow Improvements	13	13	100 %
Total	31	31	100 %

**Table 4 - Estimated CMAQ Air Quality Emission Benefits For FY 2011
for Transportation Pollutants (in Kg per Day)**

Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Emission Type	Number ¹	Minimum	Median ²	Maximum
VOC	22	0	1	133
CO	22	0	12	1,712
NOx	22	0	5	382
PM ₁₀	31	0	2	344
Total	97			

Notes:

- ¹ The number of projects submitted with VOC, CO, NOx, PM_{2.5} and /or PM₁₀ emissions analysis respectively.
- ² The median, rather than the mean, is a better representation of average effectiveness because the mean is unduly influenced by relatively few projects with large emissions reductions. The median is the point above or below which 50 percent of all observations lie when ranked highest to lowest. Emissions reductions are provided without comment as to their accuracy.

Table 5 - Air Quality Analysis by Project Type (VOC, Kg/Day) For FY 2011
Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Type of Project	Number ¹	Minimum	Median²	Maximum
Traffic Flow Improvement	13	0	2	29
Shared Ride	3	1	76	133
Pedestrian/Bicycle	6	0	0	0
Total	22			

Notes:

- ¹ The number of projects submitted with VOC emissions analysis.
- ² The median, rather than the mean, is a better representation of average effectiveness because the mean is unduly influenced by relatively few projects with large emissions reductions. The median is the point above or below which 50 percent of all observations lie when ranked highest to lowest. Emissions reductions are provided without comment as to their accuracy.

Table 6 - Air Quality Analysis by Project Type (CO, Kg/Day) For FY 2011
Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Type of Project	Number ¹	Minimum	Median²	Maximum
Traffic Flow Improvement	13	4	28	284
Shared Ride	3	11	977	1,712
Pedestrian/Bicycle	6	0	0	1
Total	22			

Notes:

- ¹ The number of projects submitted with CO emissions analysis.
- ² The median, rather than the mean, is a better representation of average effectiveness because the mean is unduly influenced by relatively few projects with large emissions reductions. The median is the point above or below which 50 percent of all observations lie when ranked highest to lowest. Emissions reductions are provided without comment as to their accuracy.

Table 7 - Air Quality Analysis by Project Type (NOx, Kg/Day) For FY 2011

Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Type of Project	Number ¹	Minimum	Median²	Maximum
Traffic Flow Improvement	13	1	8	96
Shared Ride	3	2	226	382
Pedestrian/Bicycle	6	0	0	0
Total	22			

Notes:

- ¹ The number of projects submitted with NOx emissions analysis.
- ² The median, rather than the mean, is a better representation of average effectiveness because the mean is unduly influenced by relatively few projects with large emissions reductions. The median is the point above or below which 50 percent of all observations lie when ranked highest to lowest. Emissions reductions are provided without comment as to their accuracy.

Table 8 - Air Quality Analysis by Project Type (PM₁₀, Kg/Day) For FY 2011
Fiscal Year = '2011' and Status Selection Criteria = 'All' and State = 'Arizona'

Type of Project	Number ¹	Minimum	Median ²	Maximum
Traffic Flow Improvement	13	0	1	17
Shared Ride	3	1	96	168
I/M and Other TCMs	9	12	70	344
Pedestrian/Bicycle	6	0	1	4
Total	31			

Notes:

- ¹ The number of projects submitted with PM 10 emissions analysis.
- ² The median, rather than the mean, is a better representation of average effectiveness because the mean is unduly influenced by relatively few projects with large emissions reductions. The median is the point above or below which 50 percent of all observations lie when ranked highest to lowest. Emissions reductions are provided without comment as to their accuracy.