

# TRIPOLI

## Vegas

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Website: [www.mcneely.net/tripoli\\_vegas](http://www.mcneely.net/tripoli_vegas)

Official Newsletter of Prefecture #24 of the Tripoli Rocketry Association, Inc.

March 1998

## Ejection Charges

By: Mike Alber

The following computations were made with GEOX 4F black powder and a Lyman D5 scale. Sample weights of ejection charges were taken from the following AeroTech motor reloads, F12-5J, F22-7J and I154J. Grams were converted to grains as the scale measures in grains.

- One pound = 7000 grains or 453.6 grams
- One ounce = 437.5 grains or 28.35 grams
- One gram = 15.4 grains
- 0.25 grams = 3.85 grains
- 0.4 grams = 6.1 grains
- 0.5 grams = 7.7 grains
- 0.7 grams = 10.78 grains
- 1.4 grams = 21.56 grains
- 2.1 grams = 32.3 grains

The AeroTech contained the following loads:

- 24mm F12-5J 8.3 grains or .54 grams
- 29mm F22-7J 11.8 grains or .77 grams
- 38 mm I154 24 grains or 1.56 grams

Robby's Rockets recommends the following: "the 0.25 to 0.50 gram charge for Estes style tubes 2" or larger. Use 0.75 to 1.25 grams for 2" to 3" heavier body tubes, 1.50 to 2.00 grams work nicely in 3" to 4" tubes."

For lack of a powder scale, there are several things available which will throw a measured charge. Gun stores carry an adjustable measure for black powder for about \$7.00. The following items also give a good measure of powder (4F):

Empty Cartridge Case	Grain Weight of Black Powder
45 Colt	42 (2.7 grams)
45 Auto	28 (1.8 grams)
38 Special	24 (1.5 grams)
30 Cal. Carbine	20 (1.3 grams)
9 mm	15.4 (1 gram)
22 long	5 (0.32 grams)
1/4 teaspoon (level)	20 grains

You can solder a section of a coat hanger to your shell case for a handle and use the body tube diameter vs. ejection charge weight chart for an additional guideline. I have a large supply of 9mm and 38 special cases and if anyone would like a set of dippers, I would be happy to supply them a set with handles just for the asking.

## Newsletter Help Needed

I need help with writing articles and launch reports for the newsletter. If you have anything of interest to the club that you can write about, or just cover one of our launches, your help would be much appreciated. You can contact me:

Brent McNeely  
w: 233-8222 or h: 256-8215

## Leadership List

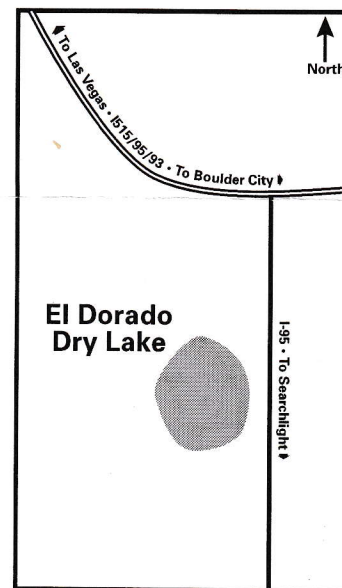
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## Launch Dates

April 18 . . . . . El Dorado Dry Lake Bed  
 May 23, 24 . . . . . Delemar Dry Lake Bed  
 June 20 . . . . . El Dorado Dry Lake Bed  
 July 18 . . . . . El Dorado Dry Lake Bed  
 August 22 . . . . . El Dorado Dry Lake Bed  
 September 19, 20 . . . . . Delemar Dry Lake Bed  
 October 17 . . . . . El Dorado Dry Lake Bed  
 November 28 . . . . . El Dorado Dry Lake Bed  
 December 19 . . . . . El Dorado Dry Lake Bed

## Meeting Dates

Every Thursday prior to a launch date



MCNEELY ASSOCIATES

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