FIREWORKS CHEAT SHEET

MILKY WAY CHEAT SHEET

- □ Tv: 14 to 22 seconds. (Longer shutter times will lead to stars "streaking" through the sky as the earth rotates.)
- Av: As wide open as you can get your lens (f/1.4 - f/2.8 are ideal, but most stock lenses can't get below f/3.5)
- ☐ ISO: 1600 6400 (Noise can be cleaned up easily in Lightroom or Photoshop)

MOONRISE CHEAT SHEET

- □ Tv: Tricky. (Depends on phase of the moon, but it can be like shooting direct sunlight. For full moon I've done 1/10s or as fast as 1/500s.)
- \square For bright moonlight you can tighten to f/14
- ☐ ISO: 100 200 (Usually better to increase Tv than ISO to keep noise down.)

NORTHERN LIGHTS CHEAT SHEET

- □ Tv: 5 to 10 seconds. (Longer shutter times will bring in more light from the aurora, but the dancing lights can appear "smeared" if open too long.)
- Av: As wide open as you can get your lens (f/1.4 f/2.8 are ideal, but most stock lenses can't get below f/3.5)
- ☐ **ISO: 1600 3200** (Maybe 6400 if lights are faint or moving rapidly.)

STAR TRAILS CHEAT SHEET

- Tv: Using Bulb Mode Keep Shutter Open 1-2+ hours (The longer you keep the shutter open, the longer the star trails grow.)
- f/3.5 to f/5.6 should suffice (You may choose to tighten up to f/8 or more if your pictures come out hazy from stray light.)
- ☐ ISO: 100