

# Light Pollution: What's the Big Deal?

#### The Earth from Space at Night



The majority of the world's people can no longer see the Milky Way.

#### The United States at Night





### So what's the Big Deal about Night Skies?





People who live here...

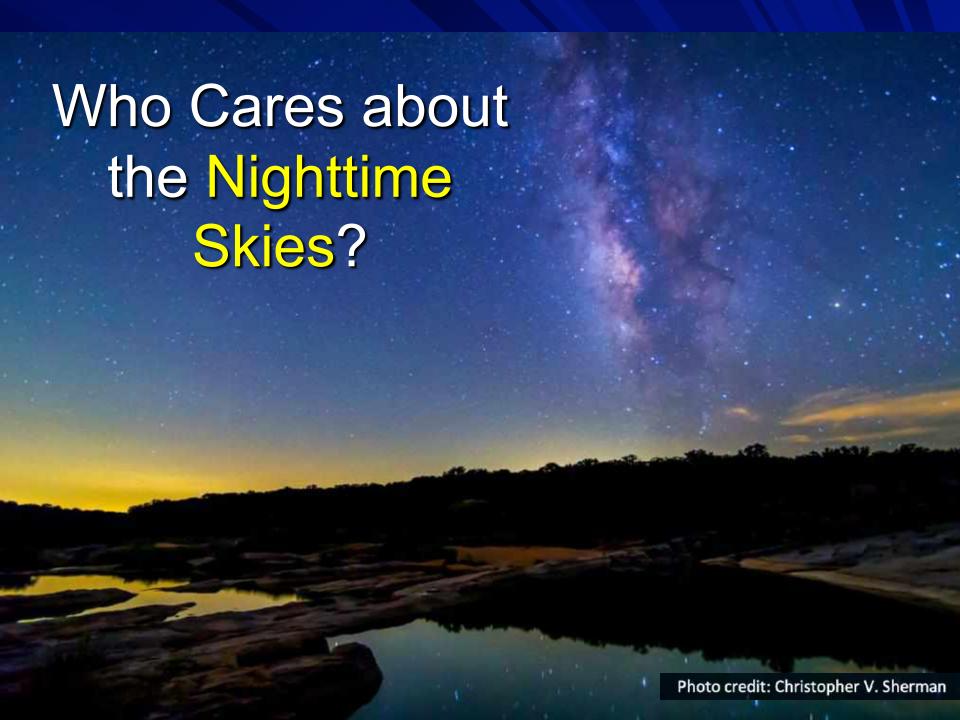
...can't see this.

### The Glory of the Nighttime Sky is a Gift from God

■ Psalms 19:1 "The heavens declare the glory of God; the skies proclaim the work of His

hands."





#### Part of our Hill Country Heritage



Part of our "Sense of Place"

### Preserving Our Night Skies is a <a href="Priority">Priority</a> for Hill Country Residents

- The night sky is a natural resource just like our hills, springs, and rivers
- Public Input (Blanco example): Visionaries in Preservation (VIP)
  Town Meetings
  - Blanco Historical Preservation Action Plan; approved by City Council



"Preserve our night skies and our Milky Way and give us back what we've lost."

Night Sky Preservation

\* Light Pollution Abatement

### LIGHT POLLUTION SHOWS UP AS:

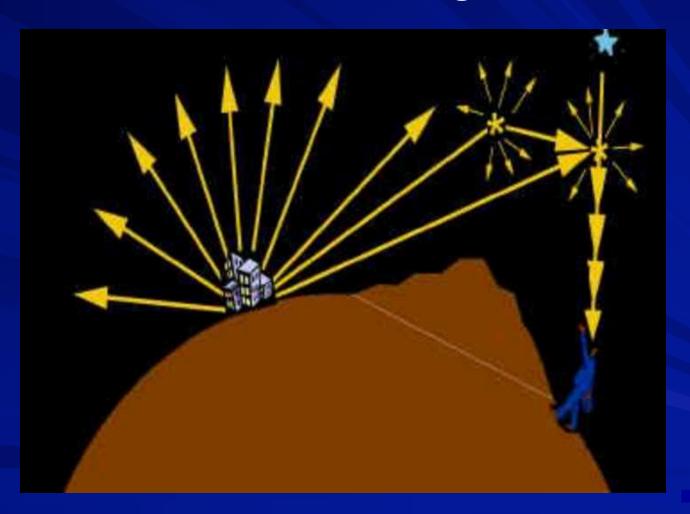
- Sky G/OW an atmospheric phenomenon seen as a "bubble" of eerie pink, white, or orange color hovering above cities and other brightly lit areas.
- Light Trespass light shining onto other properties
- Gare light shining directly into your eyes, often an irritating and sometimes dangerous condition

#### Sky Glow = Wasted Light

Wasted Light = Wasted Energy = Wasted Money \$\$\$



#### Follow the Bouncing Photons



#### Stars Get Lost in the Sky Glow



#### The Great Blackout of 2003



#### **Light Trespass**

 Light that falls outside the property on which it is generated



#### Light Trespass







#### Beware the Glare



#### Bright Light = Good Security?

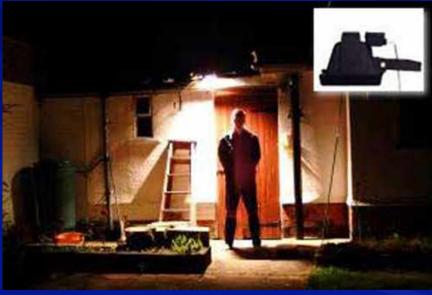


#### What Lurks in the Shadows?



#### **Better Security**





#### Night Sky Polluting "Security" Lights



#### Don't Bug Me!



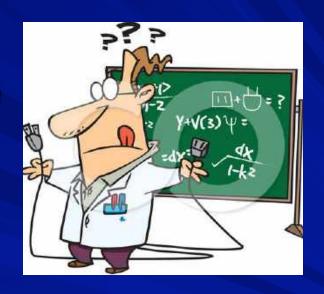


#### Light Pollution:

- Takes away the enjoyment and wonderment of our nighttime skies
- Disrupts feeding cycles, sleeping cycles, and breeding cycles for many kinds of birds and other animals as well as migration patterns
- Inhibits production of melatonin; affects metabolism and the immune system; and may lead to increases in certain forms of cancer, particularly in women
- Increases difficulty of seeing by the elderly and the vision impaired
- Gives us a false sense of security

### Light Pollution is a "Curable Condition"

Not Rocket Science





Sometimes the questions are complicated and the answers are simple" - Dr. Seuss

#### Lighting Solutions

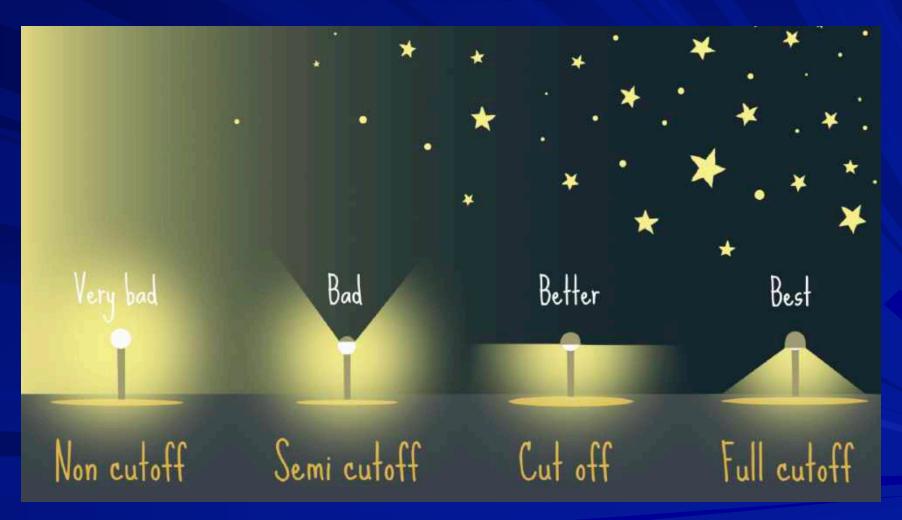


Instead of this

Do this



### Light Only What is Really Needed



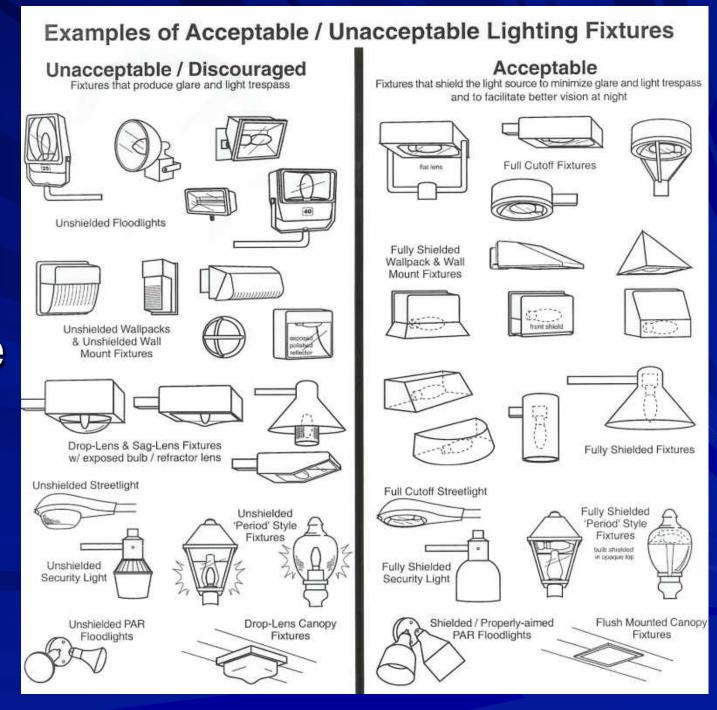
#### Light...or Night?



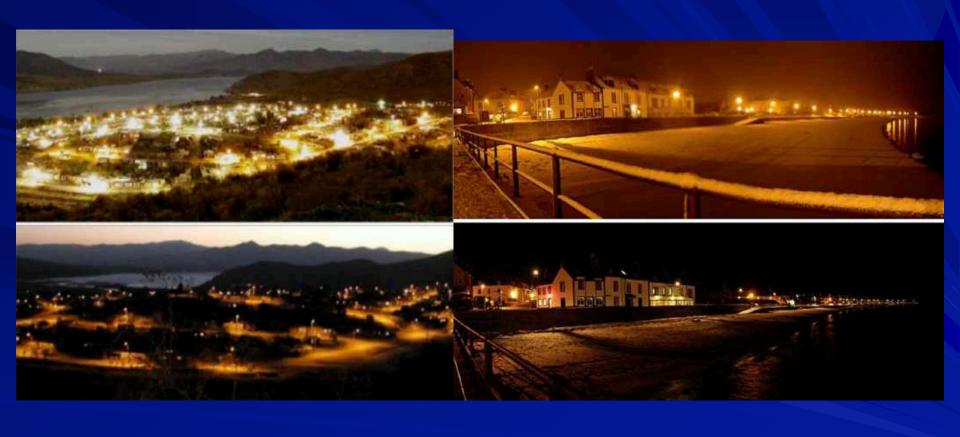
#### **Good Street Lighting**



#### Good Fixtures are Readily Available



#### Retrofit Lighting

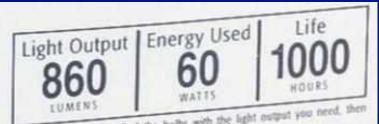


## Which Will Scatter the Least Light?



# Flat Bottomed LED: Saves the Stars and Saves \$\$\$





To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.



uses only 9.5 Watts



Estimated Energy Cost \$1.14 per year

#### Kelvin Temperature



## Look for Low Kelvin Temperatures



#### Happy Neighbors

\*&@#%\*@!!!



Thanks, neighbor!

#### So How Dark is Blanco?



#### The End Result...



### The Protected Night Sky over Flagstaff, Arizona



# The Night Sky of the Texas Hill Country: A Treasured Natural Resource Worth Preserving



Through personal and community action, we can reclaim our Milky Way...

One Light and One Star at a time."





The Stars are Precious.

Please Protect Them.