

Light Pollution

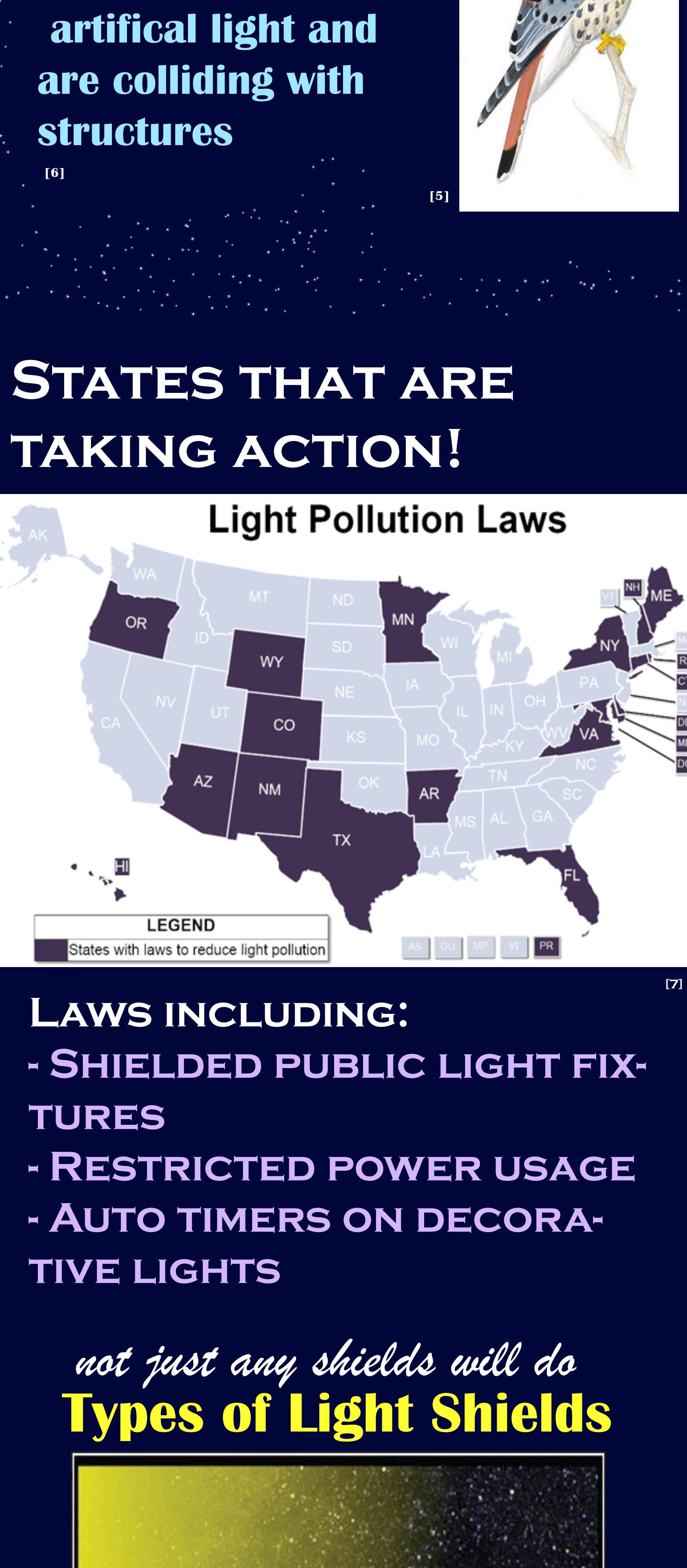
99% OF AMERICANS
LIVE WITH LIGHT POLLUTION [1]

2010 Map of population density and lights in the night sky:



No surprises here!
more people = more light pollution

THIS IS A PROBLEM BECAUSE
LIGHT POLLUTION



Causing...
Not only harming us but
animals as well...

Sea Turtles
Navigate by
light at night to
find the ocean
and are now
getting lost



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[4]

Corals
Spawn by
moonlight
and are now
out of sync

[5]

Migratory Birds
Are drawn to the
artificial light and
are colliding with
structures



[6]

STATES THAT ARE
TAKING ACTION!



LAWS INCLUDING:
- SHIELDED PUBLIC LIGHT FIXTURES
- RESTRICTED POWER USAGE
- AUTO TIMERS ON DECORATIVE LIGHTS

[8]

not just any shield will do

Types of Light Shields

[9]

Relative Skyglow Impact

10
9
8
7
6
5
4
3
2
1
0

Flagstaff Dark Skies Coalition 01/2019

6000K ↑ White LED ↓ 2000K
↑ PCALED
↓ NBALED

← 3000K ← HPS ← LPS

very bad bad better best

aim for the best!

[10]

not just any light will do

Newer LED

bulbs emit

blue light

that is more

damaging

than yellow

light

[11]

For more information on reducing light pollution check out:

International Dark-Sky Association

www.darksky.org

[12]

CREATED BY PATRICIA ROBINSON

GEOG 572 SP 2019

[13]

REFERENCES:

[1] data from BBCnews, Light Pollution affect 80% of global population in Science & Environment

[2] census data and night sky light shapefiles from ESRI catalog

[3] stock images from Microsoft PowerPoint

[4] image from TheLivingSea.com

[5] image from the National Audubon Society

[6] middle image and data from NY Times - nytimes.com, Illuminating the Effects of Light Pollution

[7] map and data from NCSL - the National Conference of State Legislation - ncsl.org

[8] image and data from Canadian Space Agency

[9] image from Flagstaff Dark Skies Collection - flagstaffdarks skies.org

[10] image and data from International Dark-Sky Association - darksky.org

[11]

If you're craving a reminder of your connection to everything, look at your reflection in the night sky. You are home. — Jennifer Williamson

[12]

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