

Environmental Committee
September 27, 2021
7:00 p.m. – City Hall
Conference Room

1. Call to Order
2. Public Comment
3. Introduction
 - a. New Committee Member – Heather Conway
4. New/Business/Old Business
 - a. Updating the City's website and other forms of communication (Darien Connect, Channel 6, Twitter) related to environmental issues
 - b. Environmental event discussion
5. Committee Items
 - a. Clarke Mosquito – July and August 2021 – Program Update
 - b. Refuse Contract
 - c. Topics for Discussion
 - d. Dark Skies
6. Next Meeting
7. Adjournment

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: September 27, 2021

RE: Environmental Mosquito Management (EMM) Program

Emily Glasberg from Clarke Environmental Mosquito Management, Inc. will be attending the meeting and giving a short presentation on their program. A question and answer session will be conducted at the conclusion.

In addition, the reports for July and August are attached and can also be found on the City's website.



City of Darien

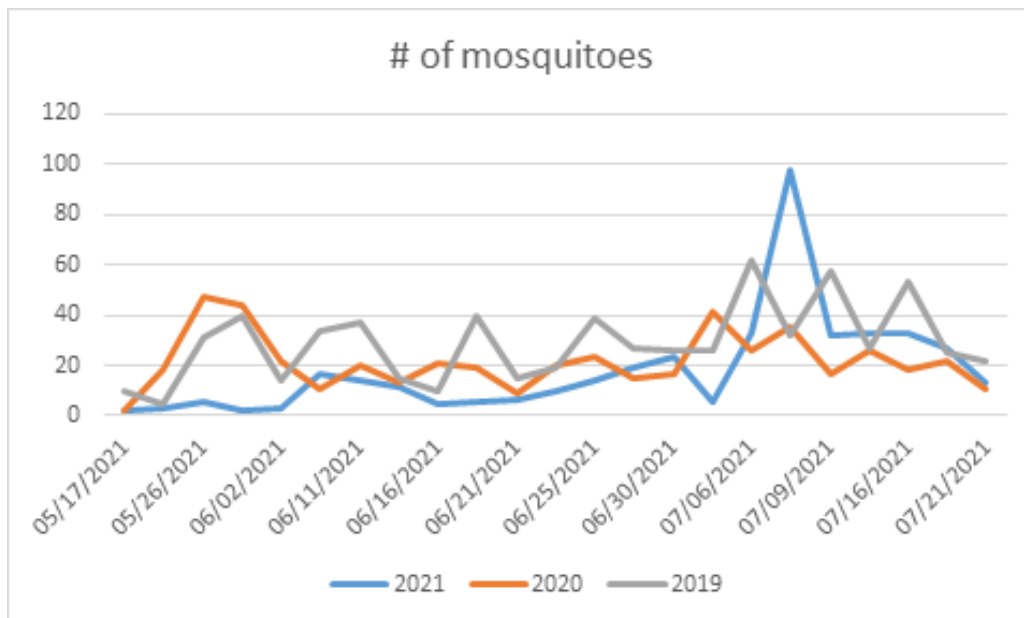
July 2021 - Status Report

SEASON PERSPECTIVE

Introduction. Weather conditions critically affect the seasonal mosquito population. Excessive rainfall periods trigger hatches of floodwater mosquitoes (*Aedes vexans*), the dominant annoyance species in northern Illinois that has a flight range of 15 to 20 miles. The other target species is the northern house mosquito (*Culex pipiens*), the primary vector of West Nile virus (WNV) that flourishes under stagnant water and drought conditions.

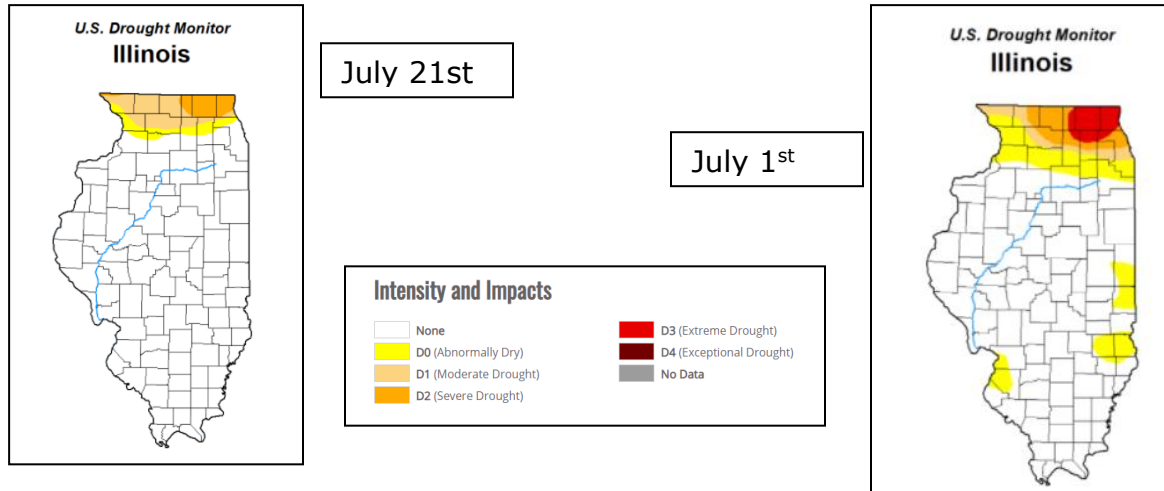
Floodwater Mosquitoes spike in July and WNV activity is increasing in August!

Since the start of the 2021 mosquito season, rainfalls have hatched a total of 7 floodwater mosquito broods at O’Hare, and 10 at DuPage County Airport. Because of the early season extreme drought conditions, the series of back-to-back broods began hitting the area in late June. During July, 547 citizen reports were received on the Clarke Mosquito Hotline & Portal, confirming the dramatic increase in mosquito annoyance conditions across the area. The following chart compares 2021 year-to-date mosquito population levels to 2019 and 2020 from our network of 100 New Jersey light traps. **July 2021 shows the highest peak of mosquito activity in the past three years.**





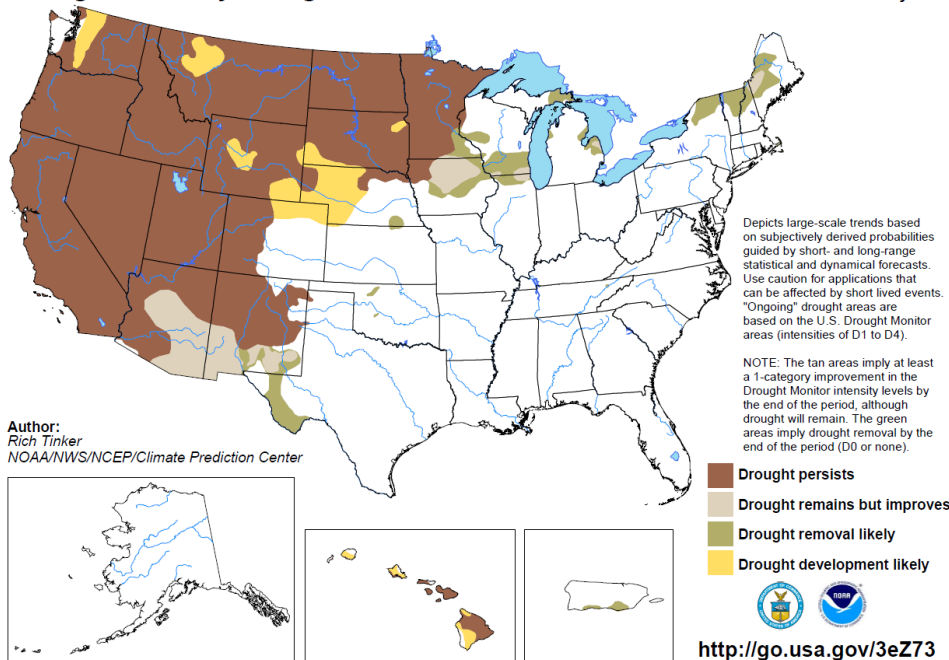
Over 7 inches of rain was received at O’Hare in late June and July. As shown by the following maps, drought conditions have improved in Northeastern Illinois since July 1st:



As shown by the following map, the National Weather Service & Climatic Prediction Center expect near-normal moisture levels in Illinois for the balance of the mosquito season:

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

Valid for July 15 - October 31, 2021
Released July 15



Operations Plan. Late July floodwater mosquito hatches will likely result in early August annoyance conditions. Accordingly, Clarke operations will focus on floodwater, as well as permanent water larval development habitats for the control of *Culex* species. **Truck ULV adulticide applications will be recommended to protect the public health, as warranted by**



surveillance data, especially as WNV+ mosquitoes are detected. Community-wide spraying will be warranted in August for mosquito annoyance conditions and the increasing risk of WNV transmission.

Floodwater Mosquito Brood Prediction – DuPage County Airport

The floodwater mosquito (*Aedes vexans*) is the key nuisance species in the Chicagoland area. Distinct hatches of floodwater mosquito populations, or broods, are triggered by significant rainfall events. The Clarke Brood Prediction Model for July and August calculates peak annoyance periods based on rainfall and temperature data collected from weather stations in your area.

Weather Station Name	Rain Date	Rain Amount	Brood Prediction Date
DuPage Co. Airport	06/12	0.59	06/26
DuPage Co. Airport	06/20	1.43	07/04
DuPage Co. Airport	06/24	1.31	07/08
DuPage Co. Airport	06/25	1.08	07/09
DuPage Co. Airport	06/26	0.63	07/11
DuPage Co. Airport	06/29	0.72	07/17
DuPage Co. Airport	06/30	0.50	07/18
DuPage Co. Airport	07/15	1.10	07/29

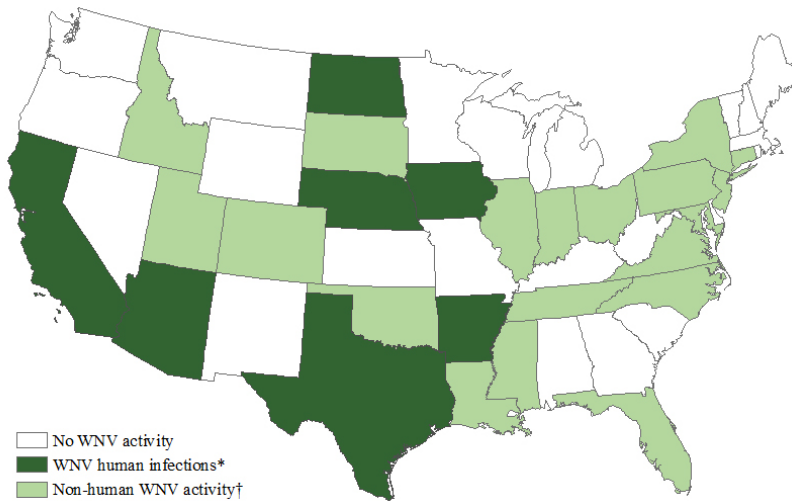
MOSQUITO-BORNE DISEASE UPDATE

West Nile Virus (WNV)

2021 – USA. As of July 27, 2021, a total of 21 cases of West Nile virus disease in people have been reported to CDC. Of these, 14 (67%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 7 (33%) were classified as non-neuroinvasive disease. The following map shows WNV activity by state, as of July 13, 2021:



West Nile Virus Activity by State – United States, 2021 (as of July 27, 2021)



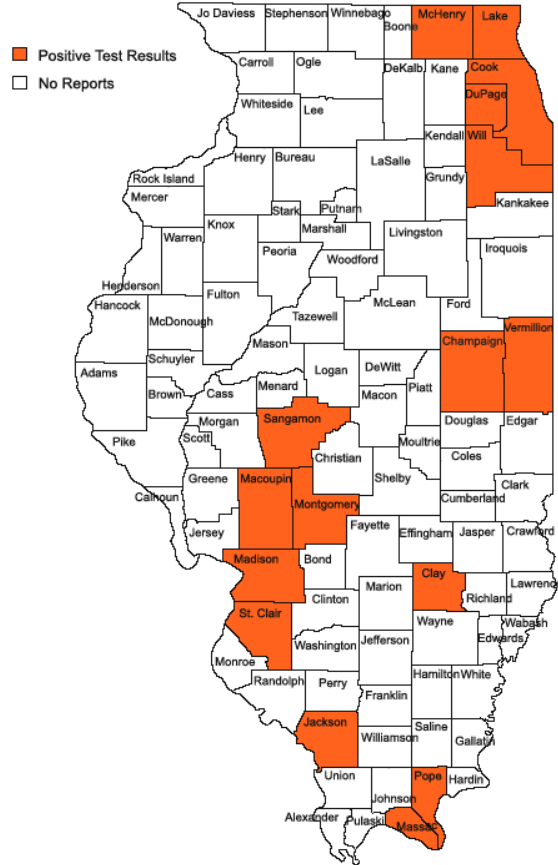
2021 – Illinois. Late July and early August WNV activity is increasing in Illinois. For example, on July 27th, DesPlaines Valley MAD reported 80% of mosquito samples in the Village of Berkeley tested positive for WNV. The following chart summarizes IDPH WNV 2021 surveillance data, as compared to historical data from 2020 and 2012, the last year of a state-wide outbreak:

West Nile Virus Activity Comparison and Summary (as of July 21, 2021)

	Number Collected in all Counties	# WNV Positives	% WNV Positives
2021 Data as of July 21			
2021 Mosquito Surveillance Samples	6,873	68	1.0%
2021 Bird Surveillance Samples	51	0	0%
2021 WNV Positive Counties	9		
2021 Human Cases as of July 21	0		
2020 Historical Data as of July 21 for Comparison			
2020 Mosquito Surveillance Samples	7,785	64	0.8%
2020 Bird Surveillance Samples	71	4	5.6%
2020 WNV Positive Counties	8		
2020 Total Human Cases	39		
2012 Historical Data as of July 21 for Comparison			
2012 Mosquito Surveillance Samples	7,341	976	13.3%
2012 Bird Surveillance Samples	350	27	7.7%
2012 WNV Positive Counties	29		
2012 Total Human Cases	290		



The following map shows the Illinois counties that have had WNV-positive activity in 2021:



2021 – DuPage County Surveillance Data & Personal Protection Index

2021		
DUPAGE COUNTY WEST NILE VIRUS SURVEILLANCE DATA 2021	YTD 2021	WEEK: 29 7/18-24
Mosquitoes Tested	12,856	1,276
WNV Total Tests	334	27
WNV Positive Tests	5	3
Positive Mosquito Pool Rate %	1%	11%
Reported Human Cases onset	0	0
Communities with Human WNV Cases	0	0
Personal Protection Index	Risk Level >>>	1

1

LOW

DCHD

FIGHT THE BITE

Risk Level Recommendations

0: NONE

1: LOW
 Drain items that collect standing water around home or business.
 Defend by using insect repellent containing DEET.

2: MODERATE
 Drain; Defend; Wear repellent outdoors during Dusk to Dawn.

3: HIGH
 Drain; Defend; Dusk to Dawn; Dress for the outdoors with long sleeves and pants.



Reported Animal/Insect Positives

Municipality	Date Collected	Animal/Insect
BLOOMINGDALE	07/22/2021	MOSQUITO
CLARENDON HILLS	06/30/2021	MOSQUITO
ITASCA	07/20/2021	MOSQUITO
KEENEYVILLE	07/27/2021	MOSQUITO
LEMONT	07/01/2021	MOSQUITO
NAPERVILLE	07/22/2021	MOSQUITO
WOOD DALE	07/22/2021	MOSQUITO
WOOD DALE	07/22/2021	MOSQUITO
WOOD DALE	07/22/2021	MOSQUITO
WOODRIDGE	07/28/2021	MOSQUITO

OPERATIONS UPDATE

Services Performed July 2021:

Service Item	Start Date
ROS2001 - Natular G30 BP Prehatch	07/12/2021
ROS1999 - Natular G 5#/Acre Hand	07/14/2021
ROS1252 - Complete Site Larval Insp Serv	07/14/2021
ROS2009 - Natular XRT CB Bike	07/15/2021
ROS1999 - Natular G 5#/Acre Hand	07/19/2021
ROS1302 - Targeted Site Larval Insp Serv	07/19/2021
ROS1999 - Natular G 5#/Acre Hand	07/26/2021
ROS1252 - Complete Site Larval Insp Serv	07/26/2021
ROS2001 - Natular G30 BP Prehatch	07/12/2021

August 2021 Operations

Work Type	Service Kit
NatularG30 Helicopter Prehatch	ROS2206 - NatularG30 Helicopter Prehatch
Targeted Site Larval Insp Serv	ROS1302 - Targeted Site Larval Insp Serv
Complete Site Larval Insp Serv	ROS1252 - Complete Site Larval Insp Serv
Natular G30 BP Prehatch	ROS2001 - Natular G30 BP Prehatch
Culex Site Inspection Service	ROS1305 - Culex Site Inspection Service



City of Darien

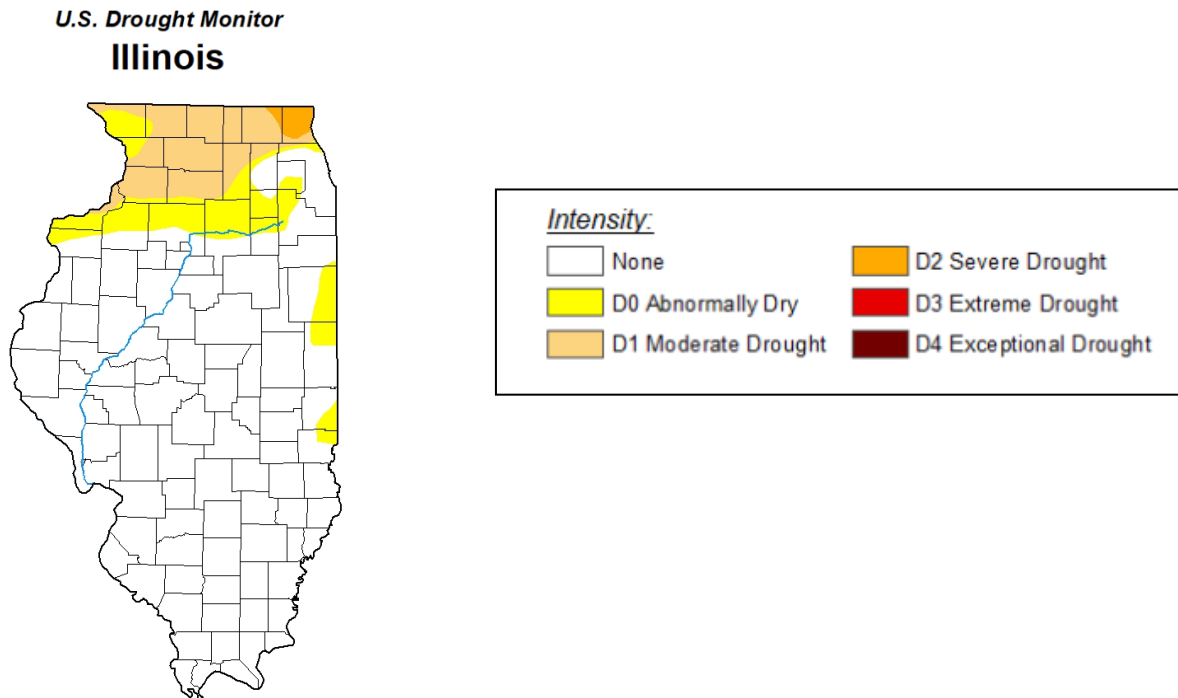
August 2021 - Status Report

SEASON PERSPECTIVE

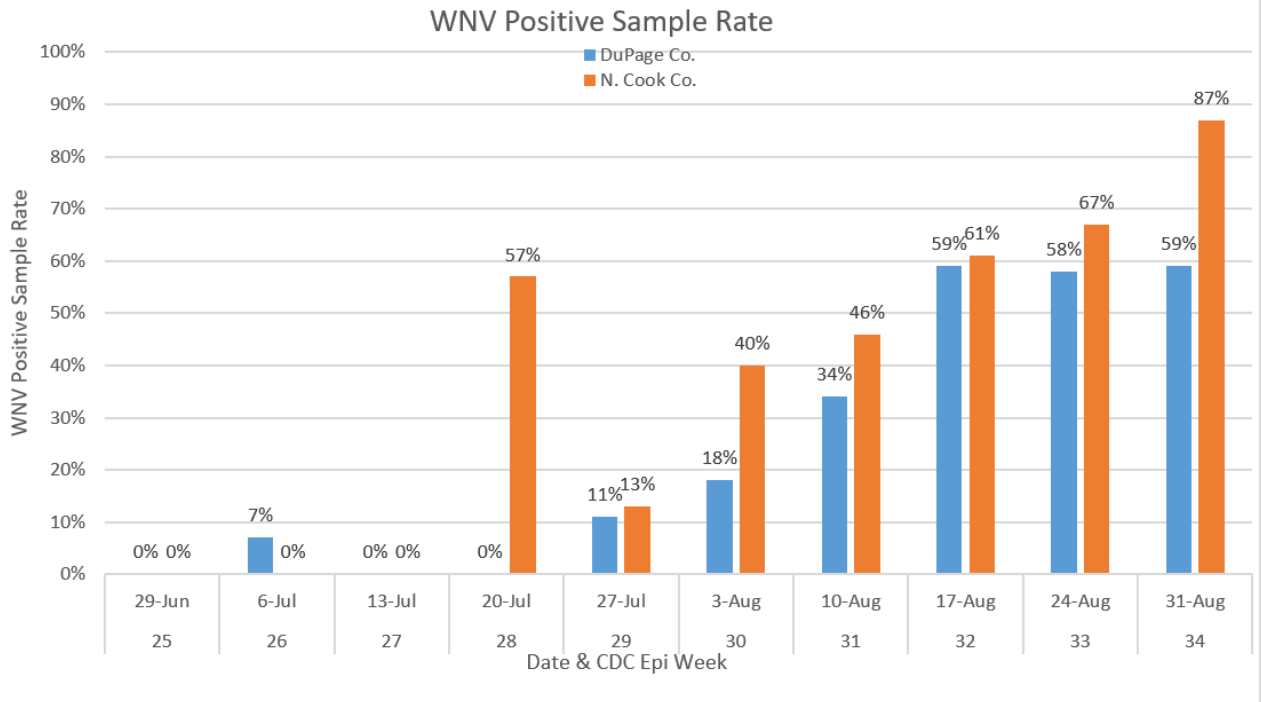
Introduction. Weather conditions critically affect the seasonal mosquito population. Excessive rainfall periods trigger hatches of floodwater mosquitoes (*Aedes vexans*), the dominant annoyance species in northern Illinois that has a flight range of 15 to 20 miles. The other target species is the northern house mosquito (*Culex pipiens*), the primary vector of West Nile virus (WNV) that flourishes under stagnant water and drought conditions.

WNV-positive *Culex* mosquito test results surge in August

Despite near the average amount of rainfall for August, northeastern Illinois remains in an abnormally dry to severe drought condition, as shown by the following U.S. Drought Monitor Map (September 2, 2021):



Since the start of the 2021 mosquito season, rainfalls have hatched a total of 10 floodwater mosquito broods at O’Hare, and 12 at DuPage County Airport. However, after peaking in late July and early August, floodwater mosquito annoyance conditions have diminished. On-the-other hand, the *Culex* mosquito, the disease vector of WNV, flourishes under stagnant water and drought conditions. The following graph compares the WNV-positive sample rate depicting the surge in West Nile-positive mosquitoes in DuPage County and northern Cook County in late August of 2021:



August and September are the prime months for WNV transmission to the human population. Surveillance data provides an early warning system for the risk of WNV. **As of early September, six (6) human cases have been reported in Illinois: 2 in Cook County, 1 in Lake County, and 3 in DuPage County.** The following chart summarizes the number of WNV-positive mosquito samples, by county, by month in northeastern Illinois counties:

2021 West Nile Virus Positive <i>Culex</i> Samples						
Month	Cook	DuPage	Kane	Lake	McHenry	Will
June	7	1		1		
July	131	17	1	33	4	4
August	1,324	88	9	107	9	20
YTD Total	1,462	106	10	141	13	24

Operations Plan. Clarke operations will focus on *Culex* permanent water sites for the control of larval development, including the treatment of street catch basins. **Truck ULV adulticide applications will be recommended to protect the public health, as warranted by surveillance data, especially as WNV+ mosquitoes are detected.** Community-wide spraying will be warranted in September for mosquito annoyance conditions and the increasing risk of WNV transmission.



Floodwater Mosquito Brood Prediction – DuPage

The floodwater mosquito (*Aedes vexans*) is the key nuisance species in the Chicagoland area. Distinct hatches of floodwater mosquito populations, or broods, are triggered by significant rainfall events. The Clarke Brood Prediction Model for July and August calculates peak annoyance periods based on rainfall and temperature data collected from weather stations in your area.

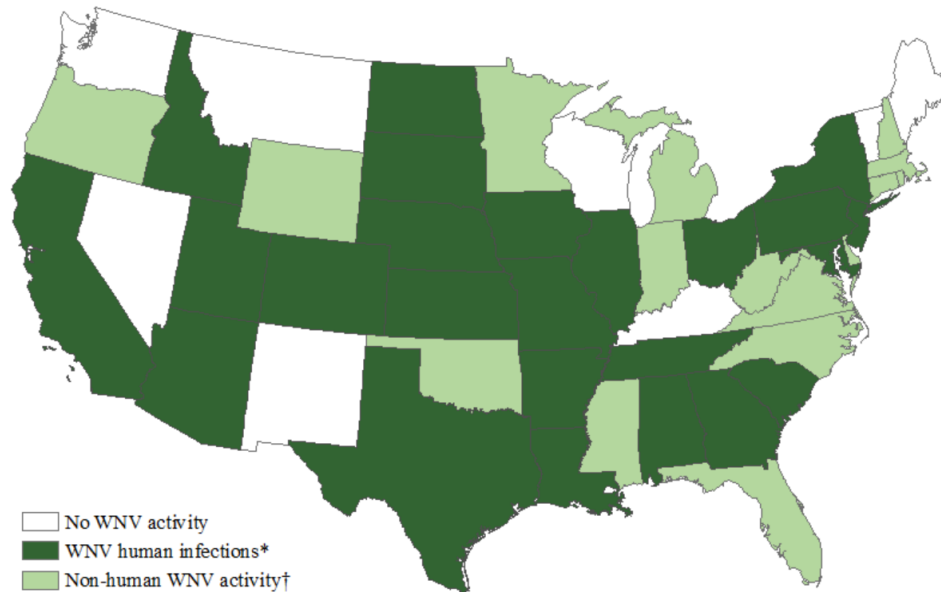
Weather Station Name	Rain Date	Rain Amount	Brood Prediction Date
DuPage Co. Airport	08/09	0.42	08/24
DuPage Co. Airport	08/11	0.78	08/27

MOSQUITO-BORNE DISEASE UPDATE

West Nile Virus (WNV)

2021 – USA. As of August 24, 2021, a total of 102 cases of West Nile virus disease in people have been reported to CDC. Of these, 64 (63%) were classified as neuroinvasive disease (such as meningitis or encephalitis) and 38 (37%) were classified as non-neuroinvasive disease.

West Nile Virus Activity by State – United States, 2021 (as of August 24th)



2021 – Illinois. *The following chart summarizes IDPH WNV 2021 surveillance data, as compared to historical data from 2020 and 2012, the last year of a state-wide outbreak:

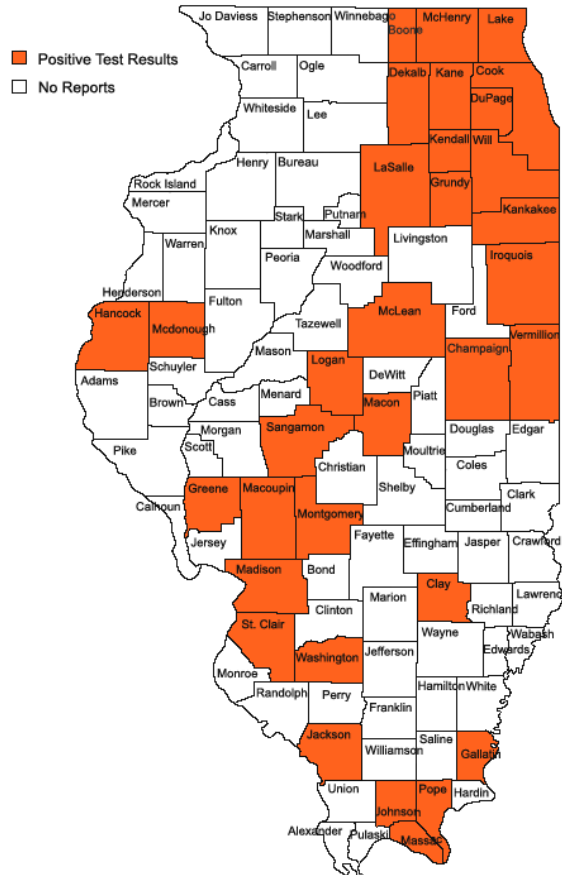


West Nile Virus Activity Comparison and Summary (as of September 1, 2021)

	Number Collected in all Counties	# WNV Positives	% WNV Positives
2021 Data as of Sept 1			
2021 Mosquito Surveillance Samples	14,476	1,749	12.1%
2021 Bird Surveillance Samples	115	15	13.0%
2021 WNV Positive Counties	30		
2021 Human Cases as of Sept 1	1		
2020 Historical Data as of Sept 1 for Comparison			
2020 Mosquito Surveillance Samples	15,271	1,769	11.6%
2020 Bird Surveillance Samples	104	7	6.7%
2020 WNV Positive Counties	20		
2020 Total Human Cases	42		
2012 Historical Data as of Sept 1 for Comparison			
2012 Mosquito Surveillance Samples	13,381	3,485	26.0%
2012 Bird Surveillance Samples	534	104	19.5%
2012 WNV Positive Counties	45		
2012 Total Human Cases	290		

*2021 human case data appears to be lagging with reports of 2 Cook County and 1 Lake County cases.

The following map shows the Illinois counties that have had WNV-positive activity in 2021:





DuPage County Surveillance Data & Personal Protection Index – September 4, 2021.

2021		
DUPAGE COUNTY WEST NILE VIRUS SURVEILLANCE DATA 2021	YTD 2021	WEEK: 35 8/29-9/4
Mosquitoes Tested	24,610	464
WNV Total Tests	623	21
WNV Positive Tests	121	4
Positive Mosquito Pool Rate %	19%	19%
Reported Human Cases onset	2	0
Communities with Human WNV Cases	Aurora, Naperville	0
Personal Protection Index	Risk Level >>>	3

FIGHT THE BITE

TODAY'S PERSONAL PROTECTION INDEX

3

HIGH

DCHD

Risk Level Recommendations

0: NONE

1: LOW
Drain items that collect standing water around home or business.
Defend by using insect repellent containing DEET.

2: MODERATE
Drain; Defend; Wear repellent outdoors during Dusk to Dawn.

3: HIGH
Drain; Defend; Dusk to Dawn; Dress for the outdoors with long sleeves and pants.

Human Cases in DuPage County		
Onset Week	Week Beginning Date	City
31	8/1/2021	Naperville
33	8/15/2021	Aurora
33	8/15/2021	Carol Stream

OPERATIONS UPDATE

Services Performed August 2021:

Service Item	Start Date
NatularG30 Helicopter Prehatch	08/02/2021
Targeted Site Larval Insp Serv	08/09/2021
Natular G 5#/Acre Hand	08/18/2021
Complete Site Larval Insp Serv	08/18/2021
Natular G 5#/Acre Hand	08/30/2021
Culex Site Inspection Service	08/30/2021
NatularG30 Helicopter Prehatch	08/30/2021

September 2021 Operations

Work Type	Number of Treatments
Culex Site Inspection Service	2

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: September 21, 2021

RE: Refuse Contract

Attached find the results of the RFP for refuse hauling. The current contract with Waste Management ends March 31, 2022. A total of 8 haulers were solicited; only 3 submitted bids.

**CITY OF DARIEN
EXHIBIT B - Option 1
Sticker/Cart Option**

Description of Service	Year	Waste Management	Groot	LRS	CURRENT RATES (WM)
Refuse Sticker Price (includes recycling) to be charged to customer	1	Base Fee \$5.25/mos - Sticker \$6.50	Base Fee \$13/mos Base Fee Seniors \$5.00/mos - Sticker \$4.00	\$6.25	3.91
	2	Base Fee \$5.43/mos - Sticker \$6.73	Base Fee \$13/mos Base Fee Seniors \$5.00/mos - Sticker \$4.12	\$6.67	
	3	Base Fee \$5.62/mos - Sticker \$6.97	Base Fee \$13/mos Base Fee Seniors \$5.00/mos - Sticker \$4.24	\$6.82	
	4	Base Fee \$5.82/mos - Sticker \$7.21	Base Fee \$13/mos Base Fee Seniors \$5.00/mos - Sticker \$4.37	\$7.00	
	5	Base Fee \$6.02/mos - Sticker \$7.46	Base Fee \$13/mos Base Fee Seniors \$5.00/mos - Sticker \$4.50	\$7.21	
Optional Cart 35 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling collection) once per week	1	\$22.18	\$16.85	\$17.50/refuse only	\$16.60/mos
	2	\$22.96	\$17.36	\$17.94/refuse only	
	3	\$23.76	\$17.88	\$18.39/refuse only	
	4	\$24.59	\$18.42	\$18.85/refuse only	
	5	\$25.45	\$18.97	\$19.32/refuse only	
Optional Cart 65 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling collection) once per week	1	\$25.18	\$19.25	\$19.50/refuse only	\$18.85/mos
	2	\$26.06	\$19.83	\$19.99/refuse only	
	3	\$26.97	\$20.42	\$20.48/refuse only	
	4	\$27.91	\$21.03	\$21.00/refuse only	
	5	\$28.89	\$21.66	\$21.53/refuse only	
Optional Cart 95 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling collection) once per week	1	\$31.18	\$23.55	\$22.50/refuse only - \$130 yard waste/season	\$23.34/mos
	2	\$32.27	\$24.26	\$23.06/refuse only - \$133.25 yard waste/season	
	3	\$33.40	\$24.99	\$23.64/refuse only - \$136.58 yard waste/season	
	4	\$34.57	\$25.74	\$24.23/refuse only - \$140 yard waste/season	
	5	\$35.78	\$26.51	\$24.84/refuse only - \$143.50 yard waste/season	
One Amnesty Day Collection (over 5 year contract)	1	\$82,760.00	\$32,000.00	\$95,000.00	
	2		\$32,960.00		
	3		\$33,948.80		
	4		\$34,967.26		
	5		\$36,016.28		
Cart/Sticker Price Increase for One Amnesty Day Collection	1	\$0.53	\$0.07	Cart \$0.23/mos Sticker \$0.16/mos	
	2	\$0.53	\$0.07	Cart \$0.24/mos Sticker \$0.17/mos	
	3	\$0.53	\$0.07	Cart \$0.25/mos Sticker \$0.18/mos	
	4	\$0.53	\$0.08	Cart \$0.26/mos Sticker \$0.19/mos	
	5	\$0.53	\$0.08	Cart \$0.27/mos Sticker \$0.20/mos	
Bulk Items (number of stickers)	1	1	1	2	2
	2	1	1	2	
	3	1	1	2	
	4	1	1	2	
	5	1	1	2	
White Goods (number of stickers)	1	5	2	4	5
	2	5	2	4	
	3	5	2	4	
	4	5	2	4	
	5	5	2	4	
Cost of replacement recycling bins	1	As stated in proposal, WM will provide a 64 gal recycle cart to each residence in lieu of 18 gal recycle bin	\$25.00	1 cart - \$15/trip	
	2		\$25.00	1 cart - \$16/trip	
	3		\$25.00	1 cart - \$17/trip	
	4		\$25.00	1 cart - \$18/trip	
	5		\$25.00	1 cart - \$19/trip	
Special Collections (charge per cubic yard to resident)	1	\$25.00	\$25.00	\$15.00	
	2	\$25.00	\$25.00	\$15.38	
	3	\$25.00	\$25.00	\$15.75	
	4	\$25.00	\$25.00	\$16.15	
	5	\$25.00	\$25.00	\$16.55	

Bids were also solicited to SBC, Republic, RTS and Flood Brothers Disposal. NO RESPONSES RECEIVED.

OPTIONAL 2 YEAR RATES

**EXHIBIT B - Option 1
Sticker/Cart Option**

Description of Service	Year	Waste Management	Groot	LRS
Refuse Sticker Price (includes recycling) to be charged to customer	1	Base Fee \$6.23/mos - Sticker \$7.72	Base Fee \$13/mos Base Fee Seniors \$5.00/mos- Sticker \$4.64	\$7.40
	2	Base Fee \$6.45/mos - Sticker \$7.99	Base Fee \$13/mos Base Fee Seniors \$5.00/mos- Sticker \$4.78	\$7.57
Optional Cart 35 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling	1	\$26.34	\$19.54	\$19.80 refuse only
	2	\$27.26	\$20.13	\$20.30 refuse only
Optional Cart 65 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling collection) once per week	1	\$29.90	\$22.31	\$22.06 refuse only
	2	\$30.95	\$22.98	\$22.61 refuse only
Optional Cart 95 gal (refuse collection or yard waste collection) Monthly fee to be charged includes recycling collection) once per week	1	\$37.03	\$27.31	\$25.46/refuse only - \$147.08 yard waste/season
	2	\$38.32	\$28.13	\$26.09/refuse only - \$150.76 yard waste/season
One Amnesty Day Collection (over 5 year contract)	1		\$37,096.77	\$95,000.00
	2		\$38,209.67	\$95,000.00
Cart/Sticker Price Increase for One Amensty Day Collection	1	\$0.53	\$0.08	no bid
	2	\$0.53	\$0.09	no bid
Bulk Items (number of stickers)	1	1	1	2
	2	1	1	2
White Goods (number of stickers)	1	5	2	4
	2	5	2	4
Cost of replacement recycling bins	1	As stated in proposal, WM will provide a 64 gal recycle cart to each residence in lieu of 18 gal recycle bin	\$25.00	1 cart - \$20 trip
	2		\$25.00	1 cart - \$21 trip
Special Collections (charge per cubic yard to resident)	1	\$25.00	\$25.00	\$16.96
	2	\$25.00	\$25.00	\$17.39

**EXHIBIT C - OPTION 2
CARTS ONLY**

Description of Service	Year	Waste Management	Groot	LRS
Monthly Rate for UNLIMITED weekly with a 65 or 95 gallon refuse cart; UNLIMITED yard waste service in 32 gallon yard waste bag or can; UNLIMITED recycling; one bulk item weekly	1	\$26.02	\$23.72	\$20.95
	2	\$26.93	\$24.43	\$21.48
	3	\$27.87	\$25.16	\$22.00
	4	\$28.85	\$25.91	\$22.57
	5	\$29.86	\$26.69	\$23.14
Monthly Rate for SENIORS for LIMITED refuse services with a 35 gallon refuse cart; UNLIMITED yard waste; UNLIMITED recycling; one bulk item weekly	1	\$10.00	\$9.95	\$10.00
	2	\$10.35	\$10.25	\$10.25
	3	\$10.71	\$10.56	\$10.50
	4	\$11.08	\$10.88	\$10.77
	5	\$11.47	\$11.21	\$11.04
Monthly Rental for additional refuse cart (GROOT bills annually)	1	\$3.50	\$3.00	\$3.00
	2	\$3.50	\$3.09	\$3.08
	3	\$3.50	\$3.18	\$3.18
	4	\$3.50	\$3.28	\$3.24
	5	\$3.50	\$3.38	\$3.32
Monthly Rental for additional recycle cart (GROOT bills annually)	1	\$3.50	\$3.00	\$3.00
	2	\$3.50	\$3.09	\$3.08
	3	\$3.50	\$3.18	\$3.18
	4	\$3.50	\$3.28	\$3.24
	5	\$3.50	\$3.38	\$3.32
Month Rental for 95 gallon yard waste/organics cart (GROOT bills annually)	1	\$3.50	\$3.00	\$3.00
	2	\$3.50	\$3.09	\$3.08
	3	\$3.50	\$3.18	\$3.18
	4	\$3.50	\$3.28	\$3.24
	5	\$3.50	\$3.38	\$3.32
White Good Pick -up	1	\$30.00	\$45.00	\$25.00
	2	\$30.00	\$45.00	\$25.63
	3	\$30.00	\$45.00	\$26.27
	4	\$30.00	\$45.00	\$26.93
	5	\$30.00	\$45.00	\$27.60
Special Collections (charge per cubic yard to resident)	1	\$25.00	\$25.00	\$15.00
	2	\$25.00	\$25.00	\$15.38
	3	\$25.00	\$25.00	\$15.75
	4	\$25.00	\$25.00	\$16.15
	5	\$25.00	\$25.00	\$16.55
At Your Door Special collection (household hazardous waste and electronics collection) per month	1	\$1.40	ONLY CURBSIDE ELECTRONICS	HHW \$1.00
	2	\$1.45		HHW \$1.05
	3	\$1.50		HHW \$1.10
	4	\$1.55		HHW \$1.15
	5	\$1.60		HHW \$1.20
Curbside Electronics per month	1		\$0.25/month	\$0.30/month
	2		\$0.26/month	\$0.32/month
	3		\$0.27/month	\$0.33/month
	4		\$0.28/month	\$0.35/month
	5		\$0.29/month	\$0.38/month

OPTIONAL 2 YEAR RATES

EXHIBIT C - OPTION 2

CARTS ONLY

Description of Service	Year	Waste Management	Groot	LRS
Monthly Rate for UNLIMITED weekly with a 65 or 95 gallon refuse cart; UNLIMITED yard waste service in 32 gallon yard waste bag or can; UNLIMITED recycling; one bulk item weekly	1	\$30.91	\$27.49	\$23.71
	2	\$31.99	\$28.31	\$24.31
Monthly Rate for SENIORS for LIMITED refuse services with a 35 gallon refuse cart; UNLIMITED yard waste; UNLIMITED recycling; one bulk item weekly	1	\$11.87	\$11.55	\$11.31
	2	\$12.28	\$11.90	\$11.60
Monthly Rental for additional refuse cart	1	\$3.50	\$3.48	\$3.40
	2	\$3.50	\$3.58	\$3.49
Monthly Rental for additional recycle cart	1	\$3.50	\$3.48	\$3.40
	2	\$3.50	\$3.58	\$3.49
Month Rental for 95 gallon yard waste/organics cart	1	\$3.50	\$3.48	\$3.40
	2	\$3.50	\$3.58	\$3.49
White Good Pick -up	1	\$30.00	\$45.00	\$28.29
	2	\$30.00	\$45.00	\$29.00
Special Collections (charge per cubic yard to resident)	1	\$25.00	\$25.00	\$16.96
	2	\$25.00	\$25.00	\$17.39
At Your Door Special collection (household hazardous waste and electronics collection)	1	\$1.65/mos	Elect only \$0.30/mos	Ewaste \$.40/mos HHW \$1.30/mos
	2	\$1.70/mos	Elect only \$0.31/mos	Ewaste \$.42/mos HHW \$1.37/mos

City of Darien

TO: Environmental Committee Members

FROM: Lisa Klemm, Liaison Environmental Committee

DATE: September 21, 2021

RE: Topics for Discussion

Chairperson McIvor put together a list of possible topics for discussion over the next 12 months. Committee will review and discuss.

- Waste contract for Darien - can we maximize environmental impact by adding a composting or other options?
- Parkway and private property tree program - can we select trees that are diverse, native and appropriate for the planting locations? (Morton Arboretum has a fantastic book to use as a reference)
- Bioswales and drainage ditches - can the City provide support to residents to encourage planting native plants that soak up the water and reduce stress on stormwater systems?
- 5G and small cells in Darien - is or will the City measure RFs and insist on independent NIER reports from potential providers ("Nonionizing electromagnetic radiation (NIER) report" means **a technical report containing information about the amount of electromagnetic radiation emissions generated by radio broadcast or telecommunication antenna installation**)?
- Electrification - what is the City doing to be ready for the anticipated, substantial increase in electric vehicles
- Carbon reduction goals - does the City have a plan? Does it include a transition in the City's fleet to electric vehicles?
- Working with other local organizations to maximize environmental impact - City, Park District, Garden Club, Women's Club, Rotary, Chamber, Argonne, County, Conservation Foundation, others
- Green Heart of Darien Award - can we create a program for environmental champions in our community

City of Darien

TO: Environmental Committee Members

FROM: Sylvia McIvor, Chairperson, Environmental Committee

DATE: September 21, 2021

RE: Dark Skies

Linda Painter, DuPage Forest Preserve Commissioner for District 3, reached out to Mayor Marchese with information regarding a “Dark Skies” Resolution that the DuPage County Board passed in April (attached). Ms. Painter also sent a copy of a Dark Skies Presentation that was given to the Forest Preserve District (attached). I am asking the EC Committee’s input on requesting the Darien City Council consider adopting this Resolution and draft ordinances and/or codes that could help with light pollution in our City

CITY of DARIEN

Endorsing the 2021 Climate Action Plan for the Chicago Region

WHEREAS, on July 13, 2021, the Metropolitan Mayors Caucus launched the 2021 Climate Action Plan for the Chicago Region in partnership with the National Oceanic and Atmospheric Administration (NOAA) and the Global Covenant of Mayors for Climate and Energy, and with support from the European Union, the Chicago Metropolitan Agency for Planning, and the Metropolitan Planning Council; and

WHEREAS, on August 9, 2021, the Intergovernmental Panel on Climate Change issued the Sixth Assessment Report authored by 234 scientists from 66 countries containing dire warnings about the state of the planet but showing that human actions have the potential to determine the future for climate; and

WHEREAS, more than 250 individuals from 175 stakeholder organizations including 53 municipalities throughout Northeastern Illinois invested two years of work through in-person and virtual collaboration and developed a comprehensive, municipally focused and regional impactful climate action plan that is anchored in equity with the well-being of people at its core; and

WHEREAS, the Climate Action Plan for the Chicago Region invites collaboration from all regional, state and federal agencies and the private sector; and

WHEREAS, the Climate Action Plan for the Chicago Region identifies the following science-based goals and objectives for the region and identifies strategies for municipalities to take measurable and meaningful action to both dramatically reduce greenhouse gas emissions and develop resiliency to climate-related hazards that threaten the community, economic health and the natural environment:

CLIMATE MITIGATION GOAL: Net zero greenhouse gas emissions

MITIGATION TARGETS:

By 2030 Reduce GHG emissions 50% from 2005 levels

By 2040 Reduce GHG emissions 65% from 2005 levels

By 2050 Reduce GHG emissions at least 80% from 2005 levels

MITIGATION OBJECTIVES:

1. Demonstrate Leadership to Reduce Emissions.
2. Decarbonize Energy Sources.
3. Optimize Building Energy.
4. Implement Clean Energy Policies.
5. Decarbonize Transportation.
6. Reduce Vehicle Miles Traveled.
7. Manage Water and Waste Sustainably.
8. Sustain Ecosystems to Sequester Carbon.

CLIMATE ADAPTATION GOAL: Persistent, equitable climate adaptation

ADAPTATION TARGETS

By 2030 Climate-resilient governance

By 2040 Resilience across jurisdictions

By 2050 Cohesive, resilient communities

ADAPTATION OBJECTIVES

1. Engage and educate the community about climate resilience and adaptation.
2. Incorporate equity and inclusion into climate adaptation efforts.
3. Collaborate and build capacity for a more resilient community.
4. Enact plans and policies focused on adaptation and resilience.
5. Adapt operations and investments for future climate conditions; and

WHEREAS municipal governments have unique strengths in developing community resiliency and in taking long-term action to mitigate climate change that are amplified through regional collaboration.

NOW, THEREFORE, BE IT RESOLVED that the City Council/Village Board of _____, Illinois, hereby expresses its support for the the goals and objectives of the **2021 Climate Action Plan for the Chicago Region** proposed by the Metropolitan Mayors Caucus and pledges to take strategic action to achieve these goals for a more resilient, equitable and healthy future.

DRAFT

Resolution

EN-R-0215-21

A RESOLUTION TO PROMOTE SUSTAINABLE OUTDOOR LIGHTING PRACTICES WITHIN COUNTY OPERATIONS

WHEREAS, DuPage County adopted the Energy Conservation & Improvement Plan which launched the Cool DuPage program and set goals to reduce greenhouse gas emissions; and

WHEREAS, the County values the practice of energy conservation, and because of the County's devotion to energy conservation, emphasis on sustainable outdoor lighting practices is desired to decrease the human impact on the environment; and

WHEREAS, preserving and protecting the night sky enhances the use and enjoyment of property which is enhanced through the use of appropriate lighting practices; and

WHEREAS, the need for outdoor light at night can be appropriately met by considering the purpose of the light, targeting it appropriately to that purpose, using the correct illumination level, limiting the duration of its use to legitimate need, and choosing lights that emit lower amounts of harmful blue light into the nighttime environment; and

WHEREAS, by applying these principles where possible, properly designed lighting at night can be beautiful, healthy, and functional; and

WHEREAS, projects that incorporate these principles will save energy and money, reduce light pollution, and minimize wildlife disruption and DuPage County encourages adherence to the International Dark Skies recommendations.

NOW, THEREFORE BE IT RESOLVED that where possible and practicable, DuPage County will adhere to these outdoor lighting principles in all future lighting improvements and replacement projects that are completed on County owned or operated properties.

Enacted and approved this 13th day of April, 2021 at Wheaton, Illinois.

DANIEL J. CRONIN, CHAIRMAN

LIGHT POLLUTION COSTS MONEY AND WASTES RESOURCES

HOW DOES ENERGY WASTE HARM THE ENVIRONMENT?

Excess lighting pumps millions of tons of carbon into our atmosphere every year, and also causes light pollution.

Light pollution:

- Increases greenhouse gas emissions
- Contributes to climate change
- Increases our energy dependence

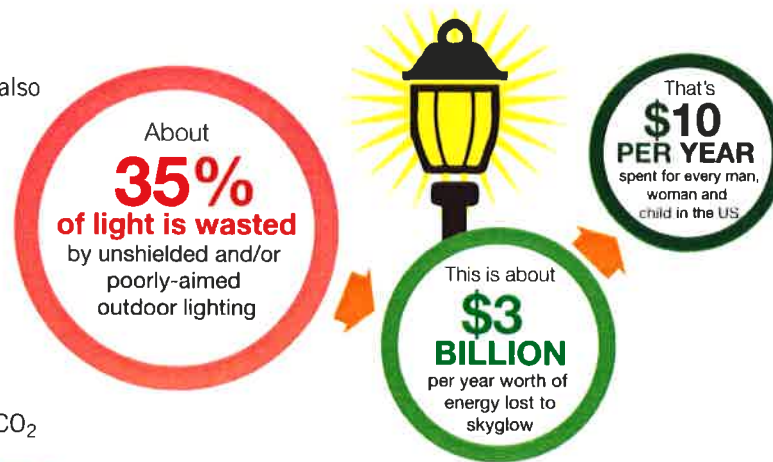
WHAT ABOUT OUR CARBON FOOTPRINT?

In the U.S. alone, about 15 million tons of CO₂ are emitted each year to power residential outdoor lighting. That equals the emissions of about 3 million passenger cars and adds up to 40,000 tons per day. To offset all that carbon dioxide, we'd need to plant about 600 million trees annually!



WHAT DOES LIGHT POLLUTION COST?

About \$3 billion dollars per year of energy is lost to bad lighting. This is about \$10 a year for every man, woman, and child in the U.S.



HOW MUCH ENERGY AM I WASTING?

The average house with poorly designed outdoor lighting wastes 0.5 kilowatt-hours (kWh) per night. A kilowatt-hour is a unit of energy equivalent to one kilowatt of power for an hour. It's enough energy to power a 50-inch plasma TV for one hour or run one load in your dishwasher!



It just takes small changes to save energy, money and our night skies. You can make a difference today.

Good vs. Bad Lighting

This photo (right) shows examples of good and poor lighting design. The unshielded light fixture on the left throws light into the sky and creates glare, impairing visibility. The shielded light fixture on the right directs light to the ground where it is needed and does not create lighting pollution. To learn about light fixtures that are environmentally friendly, energy efficient and certified with the IDA Fixture Seal of Approval, visit darksky.org.



Keep light on the ground

11.A.a

ENERGY EFFICIENCY SOLUTIONS

Shielding outdoor lighting saves energy and money, reduces our carbon footprint and helps protect the natural nighttime environment. The solutions are easy. Work with your neighbors and local government to keep the light on the ground and the skies natural. It's a win-win for everyone. You save money while preserving a valuable natural resource.

Tips to help you conserve energy and use light efficiently:

- Install quality outdoor lighting to cut energy use by 60-70%, save money and cut carbon emissions.
- Fully shield all outdoor lighting — light should go down on the ground where it's needed, not up into the sky.
- Be aware that fully shielded fixtures can provide the same level of illumination as unshielded fixtures, but with lower cost and less energy waste.
- Turn off indoor lights in office buildings or homes when not in use to save money and energy.

Visit darksky.org for more information.

Energy use and its impact on our environment has become one of the top concerns facing humanity.



Poorly designed outdoor lighting wastes energy by not being shielded, emitting more light than necessary or shining when and where it's not needed. Wasting energy in this way has huge economic and environmental consequences.

Leaving lights on overnight – such as those in office buildings – wastes energy and contributes to the general skyglow of the city. Dark sky friendly lighting does not mean “no light.” It means using the light that you need for a specific task in the most efficient manner possible.

“We can create a more sustainable, cleaner and safer world by making wiser energy choices.”

— Robert Alan Silverstein,
children's science book author



WHY DARK SKIES?

The need to protect and restore the natural nighttime environment is more urgent than ever. Light pollution, defined as light where it is not wanted or needed, affects our health, the environment, wildlife, and our ability to find awe in the natural night. Research indicates that light pollution is increasing at a global average rate of two percent per year.

ABOUT IDA

The International Dark-Sky Association, a 501(c)(3) nonprofit organization based in Tucson, Arizona, is dedicated to preserving and protecting the natural nighttime environment.



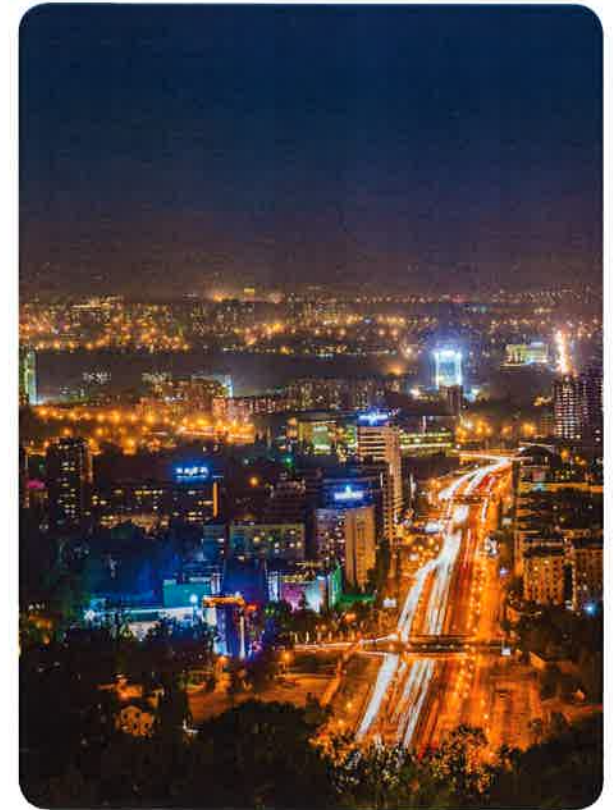
HELP US PROTECT THE NIGHT

Our work is made possible by support from IDA members. Become a member and support our work in protecting the natural nighttime environment. Please join us today!

**DARK
SKY.
ORG**

International Dark-Sky Association
3223 N. First Avenue
Tucson, AZ 85719 USA
+1-520-293-3198

Light Pollution Wastes Energy and Money



INTERNATIONAL DARK-SKY ASSOCIATION

THE INTERNATIONAL DARK-SKY
ASSOCIATION

Saving Dark Skies



Adam Kreuzer
Delegate



INTERNATIONAL DARK-SKY ASSOCIATION

Adam Kreuzer

Resume

EDUCATION:

- 1985 The John Marshall Law School JD
- Law Review. Published
- 1982 Michigan State University BA
- Mediation 40 Hour Certified
- OSHA 10 Hour Certified

PERSONAL:

- Married 31 years to Nancy
- DuPage County Forest Preserve Volunteer
- Delegate for International Dark-Sky Association
- Awarded as Illinois Top 100 Construction Law Lawyers
- Awarded as Illinois Top 200 Super Lawyers

EMPLOYMENT:

- 1996 Esp Kreuzer Cores LLP
- 1985 Hinshaw & Culbertson

PRACTICE:

- Primarily civil trial practice.
- Approximately 85% of practice involves litigation filed in Cook County. I have handled discovery, mediation, arbitration, trial and settlement of thousands of litigated claims involving civil tort and contract liability.

- Secondary practices include risk management, contract preparation and insurance coverage assessments. Also, I am a certified mediator and am retained to serve as an arbitrator on uninsured and underinsured motorist claims.

CLIENTS:

- For the most part, EKC is retained by commercial liability and employer liability insurers to represent their insureds. Recently, one of the insurers informed EKC that based on recent metrics, EKC is its most productive firm in Illinois.

INTERESTS:

- For years, I volunteered with the DuPage County PADS program and served as a member of the Glen Ellyn Park District Soccer Board. For more than ten years, I served as a Village of Glen Ellyn Commissioner. For five years, I had been its Chairperson. I was an appointed liaison to the Glen Ellyn Park District. I routinely interacted with the Village of Glen Ellyn Village Manager, Assistant Village Manager, Village Trustees and other Village employees. I routinely interacted with Park District employees, County of DuPage employees, members of the Glen Ellyn Chamber of Commerce and members of other municipal and community organizations. Currently, I am a delegate with the International Dark-Sky Association and a volunteer with the DuPage County Forest Preserve

WHO WE ARE

The International Dark-Sky Association
(IDA) protects the night from light pollution
and promotes responsible outdoor lighting

International Dark-Sky Association | 2019

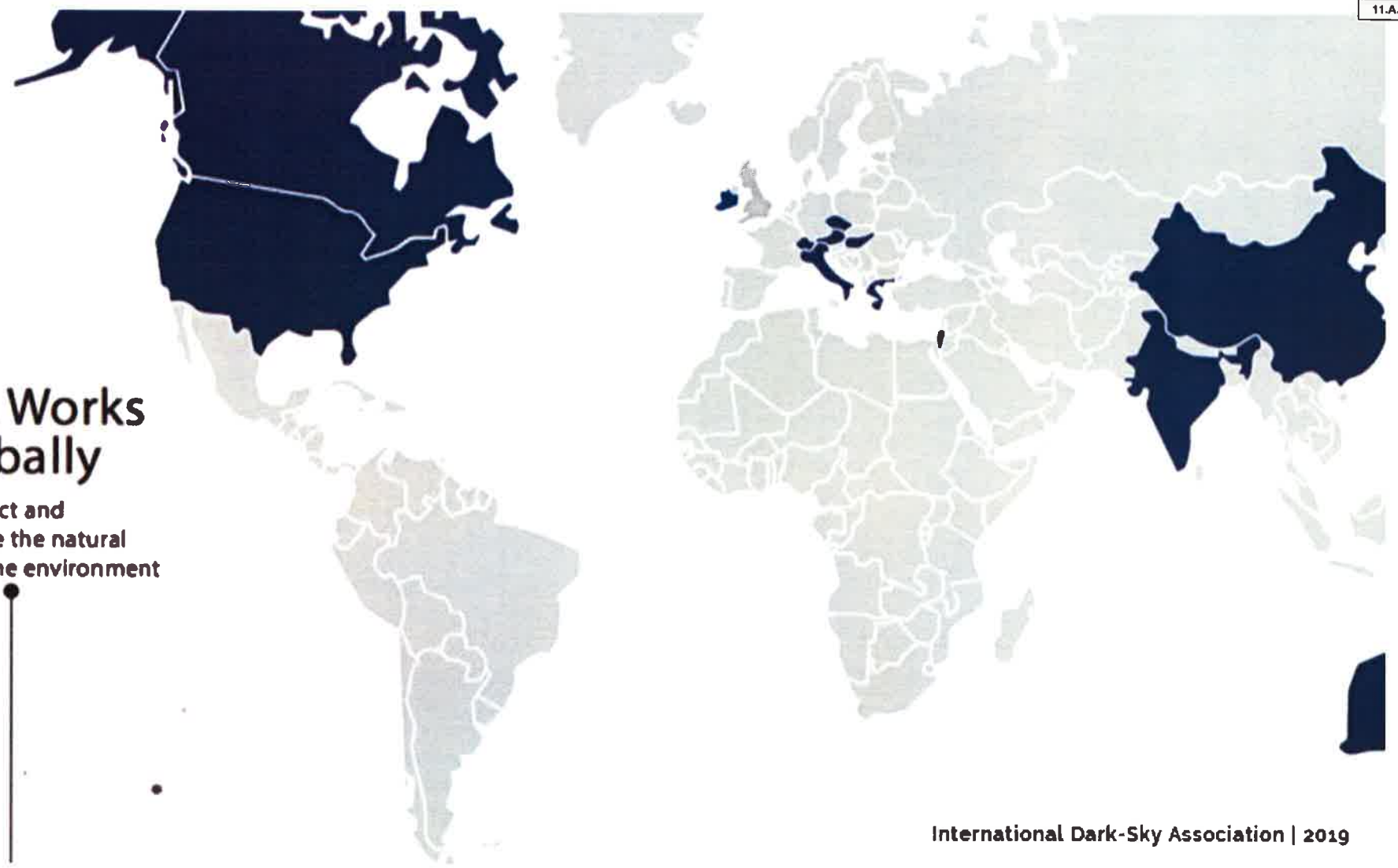
Packet Pg. 470

11.A.b

LOSING THE DARK - FLAT SCREEN VERSION

<https://youtu.be/dd82jaztF1c>

IDA Works Globally
to protect and preserve the natural nighttime environment



International Dark-Sky Association | 2019

LIGHT POLLUTION

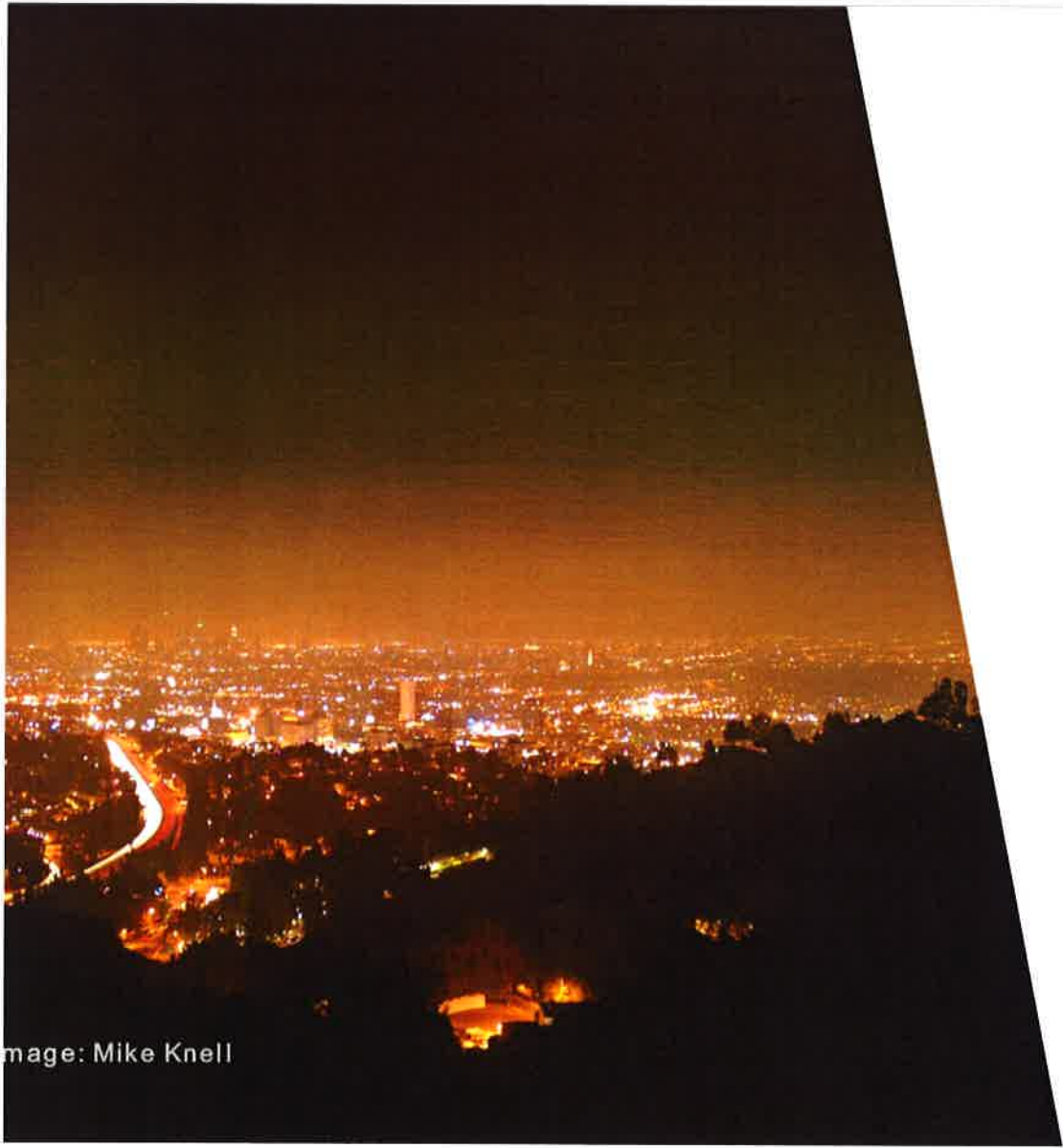


Image: Mike Knell

International Dark-Sky Association | 2011



Light pollution is increasing at 2 % per year

2001 Cirzano P., Falchi F., Elvidge C.D.

Late 1950's
Packet Pg. 474

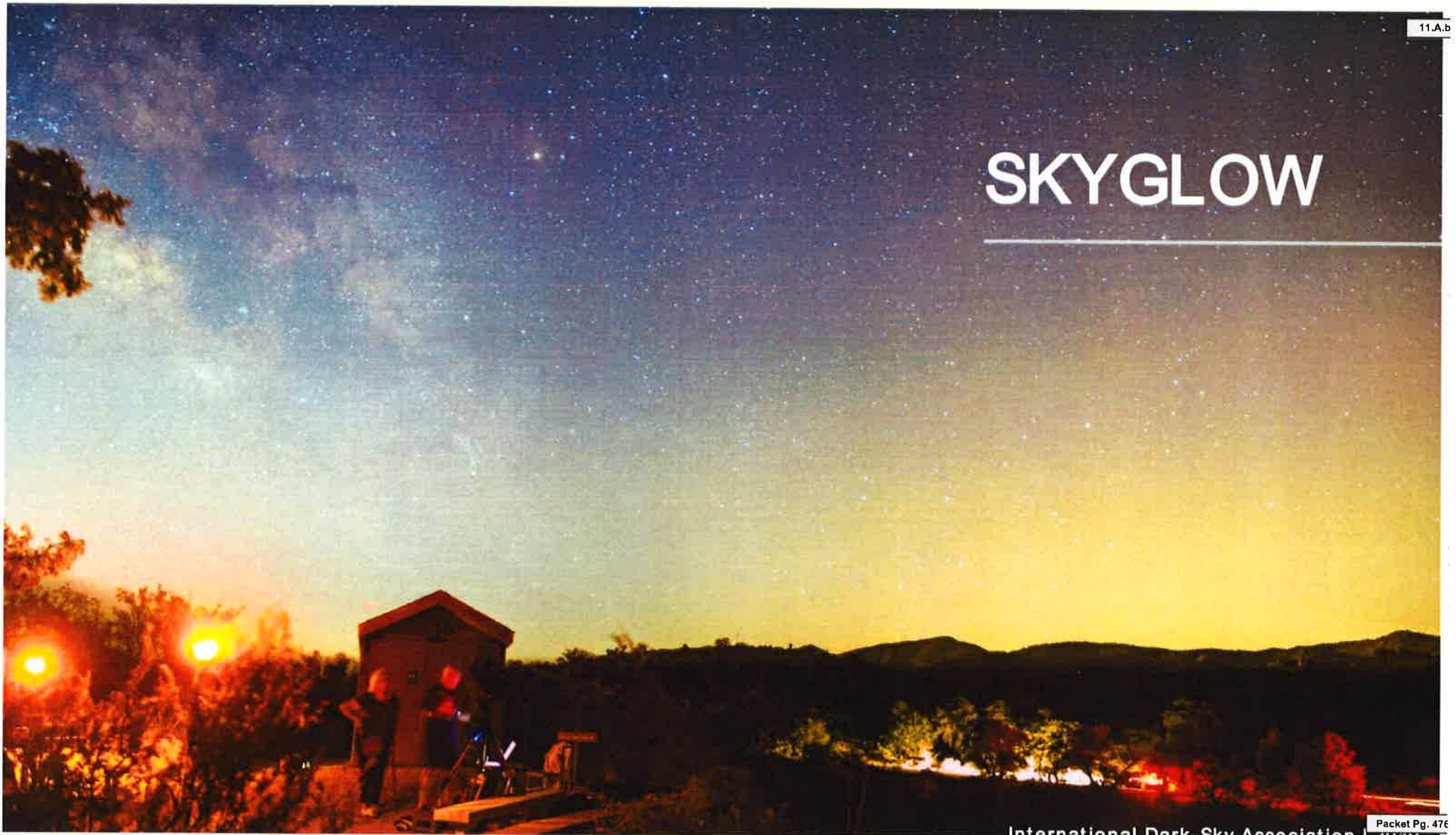
ARE YOU ONE OF THE LUCKY ONES?

ONLY 2 OUT OF 10 PEOPLE ON EARTH CAN SEE THE MILKY WAY

99% OF THE USA AND EUROPE
live under light polluted skies



SKYGLOW

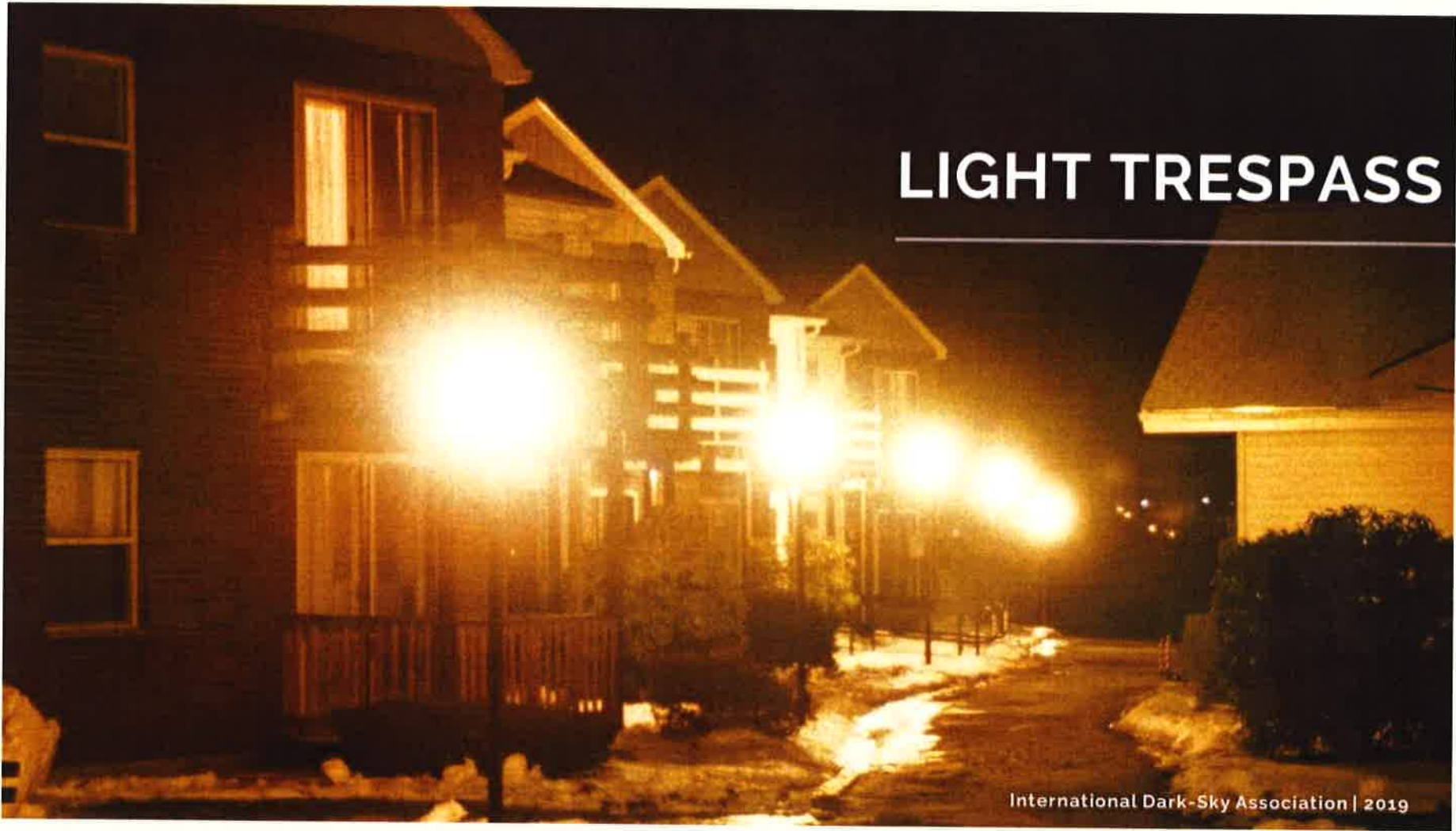


International Dark-Sky Association 2019



GLARE

International Dark-Sky Association | 2019



LIGHT TRESPASS

International Dark-Sky Association | 2019



LIGHT POLLUTION CONSEQUENCES

HUMAN HEALTH

MELATONIN

hormone that regulates sleep wake cycle
(circadian rhythm)

AMERICAN MEDICAL ASSOCIATION

Human and Environmental Effects of Light
Emitting Diode Community Lighting 2016
report



AMA adopts guidance to reduce harm from high intensity street lights

JUNE 14, 2016

CHICAGO — Strong arguments exist for overhauling the lighting systems on U.S. roadways with light emitting diodes (LED), but conversions to improper LED technology can have adverse consequences. In response, physicians at the Annual Meeting of the American Medical Association (AMA) today adopted guidance for communities on selecting among LED lighting options to minimize potential harmful human and environmental effects.

Converting conventional street light to energy efficient LED lighting leads to cost and energy savings, and a lower reliance on fossil-based fuels. Approximately 10 percent of existing U.S. street lighting has been converted to solid state LED technology, with efforts underway to accelerate this conversion.

"Despite the energy efficiency benefits, some LED lights are harmful when used as street lighting," AMA Board Member Maya A. Babu, M.D., M.B.A. "The new AMA guidance encourages proper attention to optimal design and engineering features when converting to LED lighting that minimize detrimental health and environmental effects."

High-intensity LED lighting designs emit a large amount of blue light that appears white to the naked eye and create worse nighttime glare than conventional lighting. Discomfort and disability from intense, blue-rich LED lighting can decrease visual acuity and safety, resulting in concerns and creating a road hazard.

In addition to its impact on drivers, blue-rich LED streetlights operate at a wavelength that most adversely suppresses melatonin during night. It is estimated that white LED lamps have five times greater impact on circadian rhythms than conventional street lamps. Recent large surveys found that bright residential nighttime lighting is associated with reduced sleep times, dissatisfaction with sleep quality, excessive sleepiness, impaired daytime functioning and obesity.

The detrimental effects of high-intensity LED lighting are not limited to humans. Excessive outdoor lighting disrupts many species that need a dark environment. For instance, poorly designed LED lighting disorients some bird, insect, turtle and fish species, and U.S. national parks have adopted optimal lighting designs and practices that minimize the effects of light pollution on the environment.

Recognizing the detrimental effects of poorly-designed, high-intensity LED lighting, the AMA encourages communities to minimize and control blue-rich environmental lighting by using the lowest emission of blue light possible to reduce glare. The AMA recommends an intensity threshold for optimal LED lighting that minimizes blue-rich light. The AMA also recommends all LED lighting should be properly shielded to minimize glare and detrimental human health and environmental effects, and consideration should be given to utilize the ability of LED lighting to be dimmed for off-peak time periods.

The guidance adopted today by grassroots physicians who comprise the AMA's policy-making body strengthens the AMA's policy stand against light pollution and public awareness of the adverse health and environmental effects of pervasive nighttime lighting.

ECOLOGICAL IMPACTS

BIRDS

Get confused
in the light

Light pollution is a driver of insect declines

- Insects around the world are rapidly declining. Concerns over what this loss means for food security and ecological communities have compelled a growing number of researchers to search for the key drivers behind the declines. Habitat loss, pesticide use, invasive species, and climate change all have likely played a role, but we posit here that artificial light at night (ALAN) is another important—but often overlooked—bringer of the insect apocalypse. We first discuss the history and extent of ALAN, and then present evidence that ALAN has led to insect declines through its interference with the development, movement, foraging, and reproductive success of diverse insect species, as well as its positive effect on insectivore predation. We conclude with a discussion of how artificial lights can be tuned to reduce their impact on vulnerable populations. ALAN is unique among anthropogenic habitat disturbances in that it is fairly easy to ameliorate, and leaves behind no residual effects. Greater recognition of the ways in which ALAN affects insects can help conservationists reduce or eliminate one of the major drivers of insect declines.



TREES

bud earlier and
lose their leaves
later under artificial
light

ENERGY WASTE



3-7 BILLION DOLLARS
spent every year on unneeded lighting

21 MILLION TONS OF CO2
burned by unnecessary lighting



MYTH: MORE LIGHTING IS SAFER

REALITY: WELL DESIGNED LIGHTING IS SAFER

WE CAN MAKE A DIFFERENCE





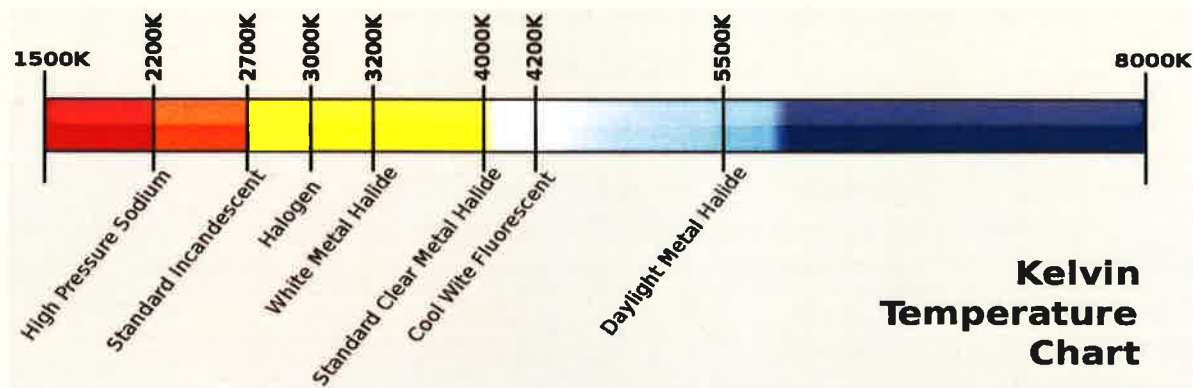
LIGHT POLLUTION

Has a simple solution: better lighting design

Blue Light at Night Is Bad

- New technical capabilities often come with unanticipated challenges. White LED lighting often has significant levels of potentially hazardous blue light. In 2010, IDA published its 2010 white paper, [“Visibility, Environmental, and Astronomical Issues Associated with Blue-Rich White Outdoor Lighting,”](#) detailing the hazards of blue-rich white light sources. In the years since, scientific evidence has solidified around its conclusions.
- A June 2016 American Medical Association (AMA) report, [“Human and Environmental Effects of Light Emitting Diode Community Lighting,”](#) concluded that *“white LED street lighting patterns [may] contribute to the risk of chronic disease in the populations of cities in which they have been installed.”* The AMA recommends *“minimizing and controlling blue-rich environmental lighting by using the lowest emission of blue light possible”* in order to reduce potential negative effects on human health.
- Concerns about blue light reach far beyond our health. Outdoor lighting with strong blue content is likely to worsen skyglow because it has a significantly larger geographic reach than lighting consisting of less blue. According to the 2016 [“World Atlas of Artificial Night Sky Brightness”](#) street lighting and outdoor lighting retrofits using 4000K lamps could

- result in a factor of 2.5 increase in light pollution. Given that the rate of increase of lighting as seen from Earth orbit is about 2 percent per year, and much of the increase is attributable to white LED, it is all the more important to address this problem.
- Blue-rich white light sources are also known to increase glare and compromise human vision, especially in the aging eye. These lights create potential road safety problems for motorists and pedestrians alike. In natural settings, blue light at night has been shown to adversely affect wildlife behavior and reproduction. This particularly true in cities, which are often stopover points for migratory species.
- Outdoor lighting with strong blue content is likely to worsen skyglow because it has a significantly larger geographic reach than lighting consisting of less blue. According to the 2016 [“World Atlas of Artificial Night Sky Brightness”](#) street lighting and outdoor lighting retrofits using 4000K lamps could result in a factor of 2.5 increase in light pollution. Given that the rate of increase of lighting as seen from Earth orbit is about 2 percent per year, and much of the increase is attributable to white LED, it is all the more important to address this problem.
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KELVIN

(CORRELATED COLOR TEMPERATURE)

2700K

Warm White

- 2700-3000K
- Most similar to Incandescents
- Inviting, relaxing

3000K

Bright White

- 3500-4100K
- Energetic, lively
- Good for kitchens and workspaces

4500K

Daylight

- 5500-6500K
- Crisp and refreshing
- Good for reading

6500K

CORRELATED COLOR TEMPERATURE (CCT)



GLARE AND UP LIGHT COMPARED ON DUAL HEAD
POLE

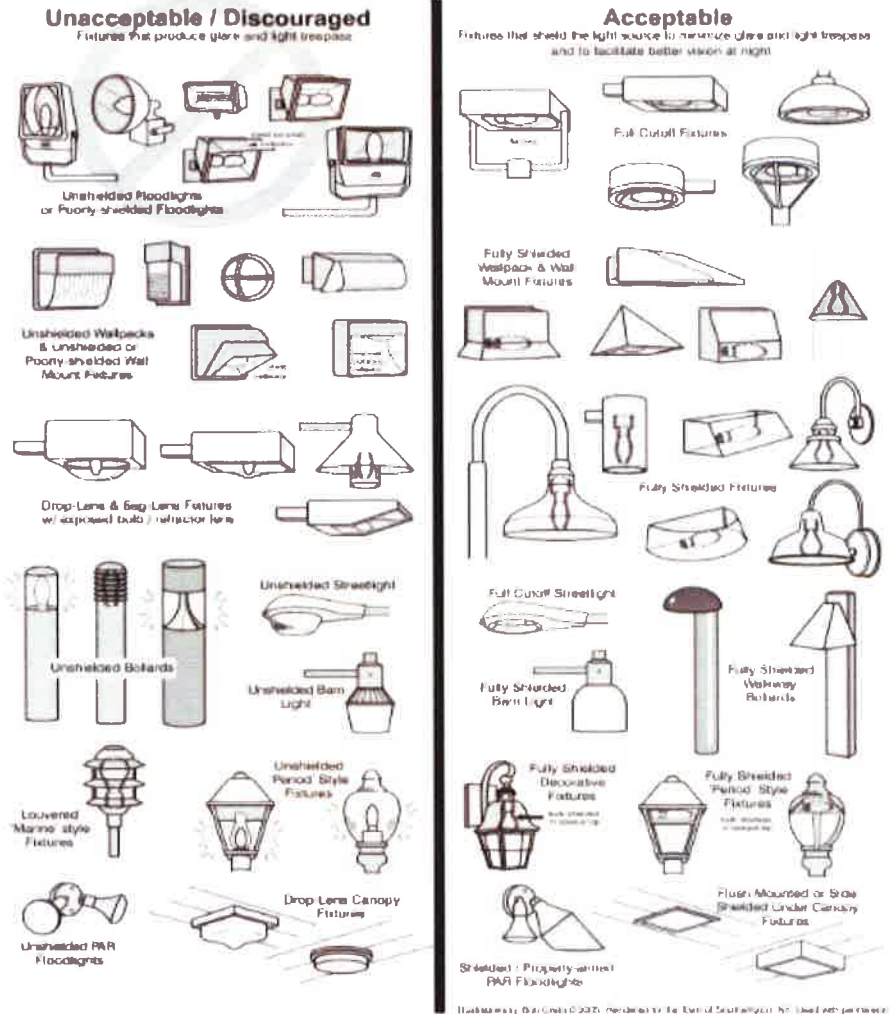
Outdoor Lighting Basics

Modern society requires outdoor lighting for a variety of needs, including safety and commerce. IDA recognizes this but advocates that any required lighting be used wisely. To minimize the harmful effects of light pollution, lighting should

- Only be on when needed
- Only light the area that needs it
- Be no brighter than necessary
- Minimize blue light emissions
- Be fully shielded (pointing downward)

The illustration below provides an easy visual guide to understand the differences between unacceptable, unshielded light fixtures and those fully shielded fixtures that minimize skyglow, glare and light trespass.

Examples of Acceptable / Unacceptable Lighting Fixtures



LOW KELVIN EXTERIOR LIGHTING

LED STREET AND AREA LIGHT

20W
1700K - 1800K - 2000K - 2200K



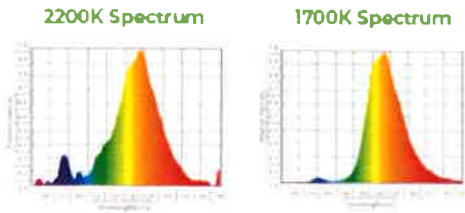
Led12 Item#	Wattage	CCT	Lumens	IP Rating	Voltage
I2-ES-PL-20W-17K	20W	1700K	2800Lm	IP66	120V
I2-ES-PL-20W-18K	20W	1800K	2900Lm	IP66	120V
I2-ES-PL-20W-20K	20W	2000K	3200Lm	IP66	120V
I2-ES-PL-20W-22K	20W	2200K	3800Lm	IP66	120V

PRODUCT DESCRIPTION

The Low Kelvin Series utilizes nano-technology resulting in extremely low heat and high efficiency. The Low Kelvin Series produces significantly less blue content than competing products while achieving similar high efficiency.

BLUE CONTENT

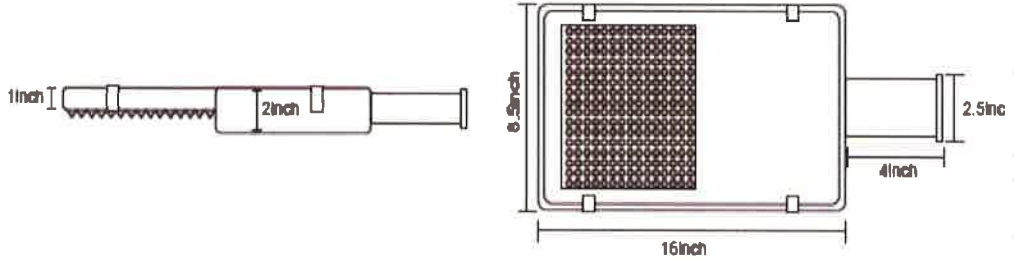
Low blue content designed for minimal impact on wildlife, humans and dark sky protection.

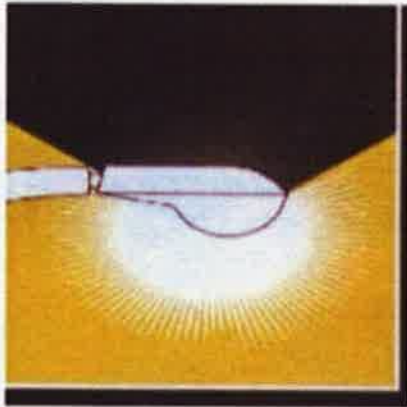


This series is comprised of 1700K, 1800K, 2000K and 2200K, achieving lumen efficiency 250% more than other LED chips, 140 lm/w in 1700K and 190 lm/w in 2200K.

ORDERING INFORMATION

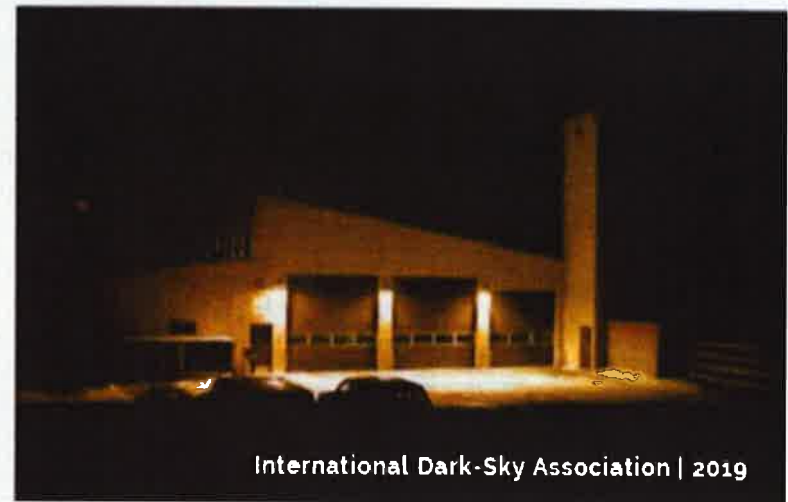
DIMENSIONS





SHIELDING

—
AIM LIGHTS DOWN





- **IDA Recommends**

- Already many white LED options are available on the outdoor lighting market and that number will only rise in the future. IDA has developed a set of recommendations for those choosing lighting systems. These suggestions will aid in the selection of lighting that is energy and cost efficient, yet ensures safety and security, protects wildlife, and promotes the goal of dark night skies. These include:

- **Always choose fully shielded fixtures** that emit no light upward
- **Use “warm-white” or filtered LEDs** (CCT < 3,000 K; S/P ratio < 1.2) to minimize blue emission
- **Look for products with adaptive controls** like dimmers, timers, and motion sensors
- **Consider dimming or turning off the lights during overnight hours**
- **Avoid the temptation to over-light** because of the higher luminous efficiency of LEDs.
- **Only light the exact space and in the amount required for particular tasks**

WHERE TO FIND THIS LIGHTING?

IDA FIXTURE SEAL OF
APPROVAL PROGRAM



International Dark-Sky Association | 2019

The International Dark-Sky Association

<https://www.darksky.org/>



INTERNATIONAL
DARK-SKY
ASSOCIATION

THANK YOU!

THE INTERNATIONAL DARK SKY ASSOCIATION

3223 N 1ST Avenue Tucson Arizona

@idadarksky

Adam Kreuzer

Delegate

Email akreuzer@ekclawfirm.com

(630) 871-1002

**Minutes
City of Darien
Environmental Committee Meeting
Monday, June 21, 2021**

PRESENT: Allan Jackimek, Robert Erck, Sylvia Mclvor, Deb Hardtke, Ryan Grace and Lisa Klemm – City Liaison. Additional guests present: Jen Medon

ABSENT: Claudia Borowski, Arleta Peknik

Meeting was called to order at 7:02 p.m. in the Police Department Training Room.

NEW BUSINESS

Sylvia Mclvor was elected the new chairperson (5-0).

Garden Club will be hosting a Garden Walk and Bazaar on July 17, 2021. Committee requested that the city include it on their weekly enews.

Chairperson Mclvor discussed participating in City Council's goal setting to include a budget for the Environmental Committee.

Chairperson Mclvor discussed native landscaping.

Chairperson Mclvor requested that the Darien website for Environmental subjects be updated. Liaison Klemm informed the committee to submit information to upload to the website.

PUBLIC COMMENT

Jen Medon introduced herself and her interest in getting more involved in the committee. Jen inquired about composting and if it was an option.

OLD BUSINESS

Members discussed the recycling event and would have liked to hold one this year. Liaison Klemm advised that there is currently no budget for this.

NEXT MEETING – September 27, 2021 – City Hall Conference Room

Meeting adjourned at 7:59 p.m.