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There are many kinds of feeds available to attract birds. You can buy mixes or single types of feeds at supermarkets, livestock feed stores, garden supply stores, or through catalogs. The particular type of mix you put out influences the number and variety of birds that will use feeding places. Thanks to scientific study led by the Urban Wildlife Research Program of the United States Fish and Wildlife Service, we now know what feeds attract or fail to attract different kinds of birds to feeders. Sunflower seeds attract most seed-eating birds. The most attractive sunflower seed is the black, oil-type. Another outstanding food is a type of millet, known as white prove or white millet. White millet attracts house sparrows and brown-headed cowbirds. However, when there are small sparrow-like birds around, such as juncos and song sparrows, white prove millet is needed. The common cereal grains - sorghum, wheat, cracked corn, oats, and rice - rate

Tips on Feeding Wild Birds

significantly below black oil-type sunflower seed or white prove millet in feeding tests. Other relatively unattractive seeds are flax, canary, and rape. A common ingredient in mixes, peanut hearts, strongly attracts starlings. You can discourage house sparrows, brown-headed cowbirds, blue jays, and grackles while at the same time offering a moderately attractive food to cardinals and mourning doves by feeding safflower seeds. Safflower is of little interest to other bird species, however.

Rather than buying mixes, the backyard bird enthusiasts can spend their money more effectively by buying black, oil-type sunflower and white prove millet separately, in bulk from seed or animal feed dealers. Depending on the kinds of birds present, the amounts of these two best foods can be varied to attract the birds you want to see.

Having attractive bird feeds on hand is of course most important, but placement of those feeds is important too. Just as birds vary in size, shape, color, song, and preferred foods, so do birds differ in feeding behavior. Some feed almost exclusively in trees, others nearly always on the ground, and others are opportunists, feeding wherever they can find acceptable food. Using a variety of feeders, such as those shown on the cover illustration of this bulletin, makes sense.

Most common birds will visit platform feeders. They are simple to build, or you can buy hopper-style feeders that can be suspended by a wire or placed on a pole. Juncos, white-throated sparrows, fox sparrows, and towhees prefer to feed on the ground. These species will feed on seed kicked off platform feeders by other birds or on feed placed on the ground for them.

Hanging, tube-type feeders attract American goldfinches, chickadees, and a variety of other species. Tube feeders permit goldfinches to avoid competition with blue jays and grackles which take over platform feeders. Tube feeders will also attract pine siskins and red polls when they are in the area.

In general, ground feeders prefer white millet, whereas birds attracted to tube feeders prefer oil-type sunflower. Therefore, white millet and mixes rich in millet should not be used in tubes or other elevated feeders with small perching surfaces. Suet (animal fat product) attached to tree trunks in wire baskets is attractive to woodpeckers and, unfortunately, starlings. In addition to food, birds readily use water placed near feeders.

Most people concentrate their feeding efforts during the winter months. Satisfaction comes not only from attracting good numbers of birds, but also because winter feed-

ing helps birds survive the rigors of cold, icy, and snowy weather. Actually, feeding birds year-round is enjoyable. Because naturally produced seeds are uncommon in the spring and summer, flocks of gold finches and house finches visit tube feeders filled with oil-type sunflower seeds in the growing season. Cardinals, chickadees, and mourning doves will visit daily. Young birds, often with clumps of down still attached, will come with their parents.

Many people believe once a feeding program is started that it must be maintained without interruption. However, birds in any locality visit several feeding sites daily and will waste little time at an empty feeder. Although abundant food at feeders during the winter helps birds, occasional periods of emptiness are unlikely to result in starvation. (Article source: Virginia Cooperative Extension publication 420-006, Feeding Wild Birds) For more information, contact the Estill County Extension office at 723-4557. The staff of the Estill County Extension office wishes everyone a happy and healthy Thanksgiving! Our office will be closed November 28-29th.

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Wishing Well®

7	6	7	5	6	5	2	5	6	7	5	2	4
B	G	E	L	L	O	S	V	O	D	I	A	B
2	8	6	7	3	4	8	4	5	7	4	2	8
V	B	R	I	S	E	E	A	N	S	L	O	F
7	5	2	3	8	6	4	7	6	3	2	5	2
C	G	R	A	L	Y	E	I	F	Y	T	P	H
8	5	4	7	5	3	2	8	4	7	6	7	2
E	A	A	P	R	Y	E	X	D	L	R	I	P
7	8	5	6	8	6	7	2	4	5	7	5	8
N	I	E	O	B	M	E	A	E	N	D	T	L
3	4	2	5	2	3	6	5	3	5	8	3	5
E	R	S	A	T	S	C	L	T	C	E	O	A
6	3	6	5	6	5	3	6	3	6	3	6	6
H	S	I	R	L	E	E	D	L	R	F	E	N

HERE IS A PLEASANT LITTLE GAME that will give you a message every day. It's a numerical puzzle designed to spell out your fortune. Count the letters in your first name. If the number of letters is 6 or more, subtract 4. If the number is less than 6, add 3. The result is your key number. Start at the upper left-hand corner and check one of your key numbers, left to right. Then read the message the letters under the checked figures give you.

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CryptoQuip

This is a simple substitution cipher in which each letter used stands for another. If you think that X equals O, it will equal O throughout the puzzle. Solution is accomplished by trial and error.

Clue: Q equals T

KW C NADQCKW CDCI NGFWQDX,

K VGWLAD KM UGSA WCHCB

GMMKNADU VGFBL TCHA QG

IA QTA XASAW XAGSAW.

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CryptoQuote

AXYDLBAAXR
is LONGFELLOW

One letter stands for another. In this sample, A is used for the three L's, X for the two O's, etc. Single letters, apostrophes, the length and formation of the words are all hints. Each week the code letters are different.

CPJ PKRSZ O KPDZG JCSES

O VCPDFG WS QPOZQ PZFH

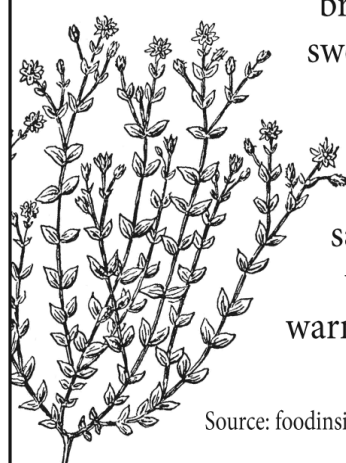
WH VSRROZQ PDR KPE

VPBSJCSES SFVS.

— E. WDXMBOZVRSE KDFE

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The Garden Bug



Herbs for Thanksgiving

Sprinkle sage on mashed potatoes or into broth for extra flavor. Nutmeg adds to the sweetness and spice of pumpkin and sweet potato pie fillings. Use bay leaves as a flavorful rub for your Thanksgiving turkey. Thyme brings flavor to a fall salad full of greens, fruits, vegetables and walnuts. The strong taste of clove brings warmth to pumpkin pie and bread pudding.

— B. Weaver

Source: foodinsight.org

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Birding BITS BY Cindy Brook

Gifts for Bird Lovers

Give a little sunshine to the bird lover in your life. Bird-themed items are easy to find. Consider these: puzzles, coloring books, sun catchers, wall calendars, pocket planners, journals, note cards, coffee or tea mugs, salt/pepper shakers, serving trays, tote bags, field guides and binoculars. Be creative. Enjoy the season.

E-mail: birdingbits@cfl.rr.com
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Puzzle Answers November 27, 2019

Puzzles4Kids

Answer
FLAMES M FLEAS
ANGORA A ORGAN
DELAYS Y LEADS

STRIPE F TRIES
STOLEN L TONES
COBRAS O CRABS
DILUTE U TILED
REPELS R SLEEP

Letter Box

Solution

N	O	F	A	L	S	I	T	W
T	W	I	N	F	O	A	L	S
S	L	A	W	I	T	F	N	O
L	I	T	F	W	N	O	S	A
W	S	N	O	A	I	L	F	T
A	F	O	T	S	L	N	W	I
I	A	W	S	N	F	T	O	L
O	N	S	L	T	A	W	I	F
F	T	L	I	O	W	S	A	N

— CHARGE

T	E	C	N	A	N	I	P
C	A	V	A	L	R	Y	R
K	K	A	R	E	V	O	C
E	L	E	C	T	R	O	S
R	I	N	O	S	R	E	P
T	E	C	A	R	R	I	N
F	O	E	E	R	F	M	U
N	H	T	P	E	D	R	T
G	N	I	L	D	N	A	H

CryptoQuip

answer
In a certain Arab country, I wonder if some naval officers would have to be the Yemen yeomen.

CryptoQuote

answer
How often I found where I should be going only by setting out for somewhere else.

— R. Buckminster Fuller

FEAR & KNIGHT

answer

			M	E	S	A			
L		I							
D	I	R	N	D	L	M			
B		O				E			
E		R	A	P	I	D	S		
P	L	U	M		U				A
		A			R	E	A		D
		L	A	G					
							E		

Even Exchange

answers

- Martin, Marvin
- Salon, Talon
- Whist, Wrist
- Strike, Strive
- Branch, Brunch
- Alone, Atone
- Rocket, Socket
- Train, Trail
- London, Lyndon
- Month, Mouth

Weekly SUDOKU

Answer

2	7	9	1	4	5	3	6	8
1	8	3	6	2	9	4	5	7
5	4	6	7	3	8	1	9	2
9	1	2	8	7	6	5	3	4
3	6	7	4	5	1	2	8	9
4	5	8	2	9	3	7	1	6
7	9	1	5	6	4	8	2	3
8	3	4	9	1	2	6	7	5
6	2	5	3	8	7	9	4	1

King Crossword

Answers

M	I	L	D	H	A	S	S	P	A	T
O	R	E	O	U	L	T	T	R	I	O
L	O	N	G	O	R	I	A	R	E	D
L	O	N	D	E	A	R	C	R	A	T
S	T	Y	K	A	Y	O				
O	P	S	H	U	G	M	E	R	G	E
U	S	E	R	P	E	A	D	I	O	N
T	I	N	E	A	T	U	T	A	D	D
S	E	N	D	T	E	A				
B	R	O	N	T	E	O	C	T	A	V
Y	U	R	T	E	U	P	H	O	R	I
E	M	I	R	M	R	S	L	E	E	R
S	P	A	Y	S	L	Y	L	A	S	S

Solution time: 25 mins.
ANSWERS (1) NEW; (2) ER; (3) 12 years; (4) Solomon; (5) 50th; (6) Darius

R.F.D.



by Mike Marland

Stickeler's Puzzle

Match the formulas on the left with their creators on the right.

- | | |
|---|---------------|
| 1) $F = \frac{Gm_1 m_2}{r^2}$ | a. Archimedes |
| 2) $F_1 X_1 = F_2 X_2$ | b. Euler |
| 3) $e^{i\pi} + 1 = 0$ | c. Newton |
| 4) $C^2 = A^2 + B^2$ | d. Euclid |
| 5) $\angle A + \angle B + \angle C = 180^\circ$ | e. Pythagoras |

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Farming News

Thursday, December 12th at 6:00pm

Cattle Producer Meeting

Estill County Cooperative Extension and the Estill County Cattlemen's Association will host a cattle producer meeting on Thursday, December 12th, 6:00 p.m. at the Estill County Extension office, 76 Golden Court (off Stacy Lane) in Irvine. An educational session entitled Farm Infrastructure Innovations will be presented by UK College of Agriculture's Dr. Steve Higgins. A chili supper will be provided. Please pre-register by calling 723-4557 no later than December 9th. The Estill County Cattlemen's Association will have their business meeting afterward.

Bible Trivia Answers

Now available by Wilson Casey! 2017 Bible Trivia box calendar loaded with daily teasers.