Neighborhood Environmental Stewardship Team Presents:
2016 NEST Calendar

Branch Out
PLANT A TREE

Sarasota County

Branch Out
PLANT A TREE

2016 NEST Calendar

2015 Sarasota County Commission

Carolyn J. Mason, District 1

Paul Caragiulo, District 2

Christine Robinson, District 3

Alan Maio, District 4

Charles D. Hines, District 5

Thomas A. Harmer, County Administrator

Lori White, Superintendent of Schools

For more information visit:

Sarasota County Government
www.scgov.net

Dear Neighbor:

It gives me great pleasure to present Sarasota County's "Branch Out – Plant a Tree" calendar, with artwork by Sarasota County elementary school students.

The "Branch Out – Plant a Tree" concept is all about highlighting the value of trees in our landscape as Low Impact Development tools that capture rainfall and reduce polluted run-off into our waterways and bays. Trees also do a great job at controlling erosion, soaking up nutrients and shading our homes and businesses. By reducing and cleaning runoff, we are protecting and preserving the waters we all enjoy.

In this calendar, you will learn how planting and maintaining our existing trees and forested areas, can help keep Sarasota's waterways healthy and beautiful. As our county grows and develops, the need to balance the preservation of our natural resources also increases. One of the easiest ways to do your part is to branch out and plant a tree in your own yard.

A tree is nature's gift that keeps on giving. Plant one today!

Sincerely,

Carolyn J. Mason

Carolyn J. Mason, Chair (2015)

SARASOTA COUNTY COMMISSION

Sarasota County

You can make a difference in keeping our environment clean and healthy. Branch out and plant a tree!

In this calendar we present 13 images created by Sarasota County elementary school students. Hundreds of talented students entered the contest, making it difficult to choose only 13 winning entries. These drawings show us how trees help keep our waterways clean and the more trees we have, the better our environment becomes.

You can use trees to keep our waterways healthy and clean:

- Create a beautiful rain garden in your yard with a tree.

- Plant trees to catch the rain and help it soak into the ground.

- Use trees to reduce the need for grass, fertilizer and mowing.

- Plant shade trees near your home to keep your house cool.

- Volunteer to help plant trees in parks and open areas.

When planting trees use materials that let rain soak into the ground. By doing this you will help our bays and waterways stay healthy and pollution-free.

Did you know that after raindrops hit the ground they wash away gross stuff like fertilizer, dog poop and trash? Raindrops eventually become what's called "stormwater run-off" and that water ends up in our creeks, bays and Gulf waters. Trees help collect rainwater and reduce rainwater run-off.

We asked students to use their imagination and talent to illustrate how trees help keep our waterways beautiful. Then our judging panel rated the artwork on the best expression of theme, poster design, creativity and artistic skill. The winning student's artwork will be displayed online during the month they represent on the Neighborhood Environmental Stewardship Team (NEST) page at www.scgov.net, keyword: NEST. As you'll see in the following pages, local students clearly understand the roles that trees play in supporting healthy waterways and that our actions can make a difference in Sarasota County.

Reece Lanum, Age 6
Garden Elementary, Grade 1
Teacher, Jennifer Kingsbury

Sarasota County

Trees take pollution out of the air and water.

Riley Putnal, Age 10
Pine View Elementary, Grade 5
Teacher, Peggy Barber

Sarasota County

January 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
December 2015 / February 2016					1 ◑ New Year's Day	2
3	4	5	6	7	8 ●	9
10	11	12	13	14	15 ◑ State of Florida Arbor Day	16
17	18 Martin Luther King Jr. Day	19	20	21	22 ○	23
24	25	26	27	28	29	30
◑ 31						

December 2015

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

Trees protect the shoreline from storms.
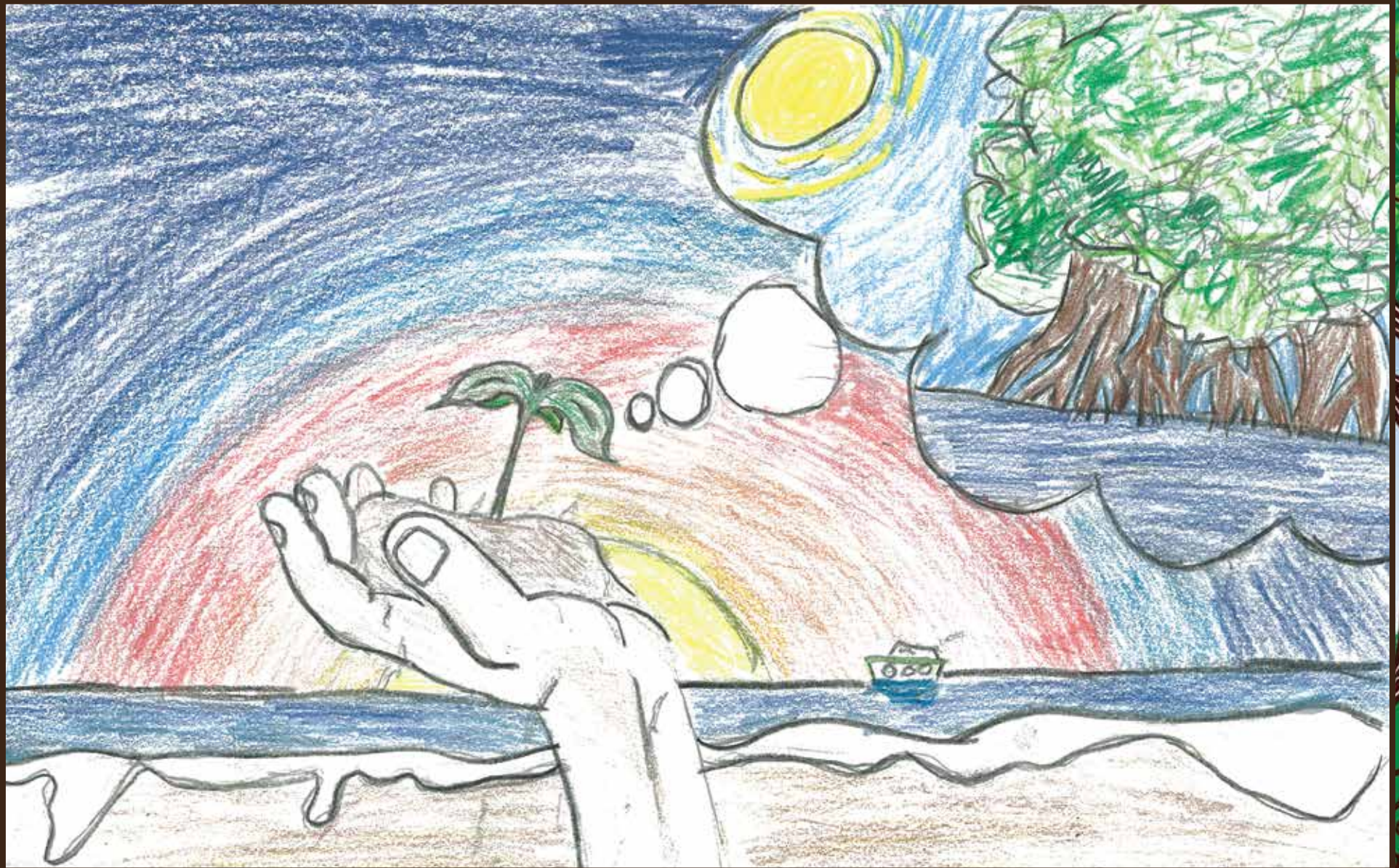
Sophia Gialdini, Age 11
Phillippi Shores Elementary, Grade 5
Teacher, Ginger Rosenberger

Sarasota County

February 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7 ●	8	9	10	11	12	13
14 ◑	15 Presidents' Day	16	17	18	19	20
21 ○	22	23	24	25	26	27
28	29					

January 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

March 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Trees return rain water to the clouds as they grow and breathe.

Angie Montalvo, Age 8
Englewood Elementary, Grade 3
Teacher, Dawn Hinck

Sarasota County

March 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		◑ 1	2	3	4	5
6	7 ●	8	9	10	11	12
13 Daylight Saving Time Begins	14 ◐	15	16	17	18	19
20 First Day of Spring	21	22 ○	23	24	25	26
27	28	29	30	31 ◑		

February 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

April 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Trees provide great homes for birds, insects and other animals.

Veronika Khakimova, Age 11
Ashton Elementary, Grade 5
Teacher, Jason Coppola

Sarasota County

April 2016

Branch Out — PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6 ●	7	8	9
10	11	12	13 ◑	14	15	16 Great American Cleanup
17	18	19	20	21 ○	22 Earth Day	23
24	25	26	27	28 ◑	29	30 Sarasota County Seagrass Volunteer Survey

March 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

May 2016

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Trees add beauty to your yard or garden.

Nicolas L. Rosario, Age 9
Bay Haven Elementary, Grade 4
Teacher, Carole Kelty

Sarasota County

May 2016

Branch Out — PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5 ●	6	7
8	9	10	11	12 ◑	13	14
15	16	17	18	19	20 ○	21
22	23	24	25	26	27	28
◐ 29	30 Memorial Day	31				

April 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

June 2016

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Trees catch millions of raindrops each year before they hit the ground.

Makenzie Parks, Age 10
Englewood Elementary, Grade 5
Teacher, Elise Conway

Sarasota County

June 2016

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 Sarasota County Fertilizer Restricted Season Begins	2	3 ●	4
5	6	7	8	9	10	11
◑ 12	13	14	15	16	17	18
19 ○	20	21 First Day of Summer	22	23	24	25
26 ◑	27	28	29	30		

May 2016

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

July 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Trees provide shade for parking lots and homes, which can reduce indoor air temperatures and electric bills.

Gillian Fenton, Age 6
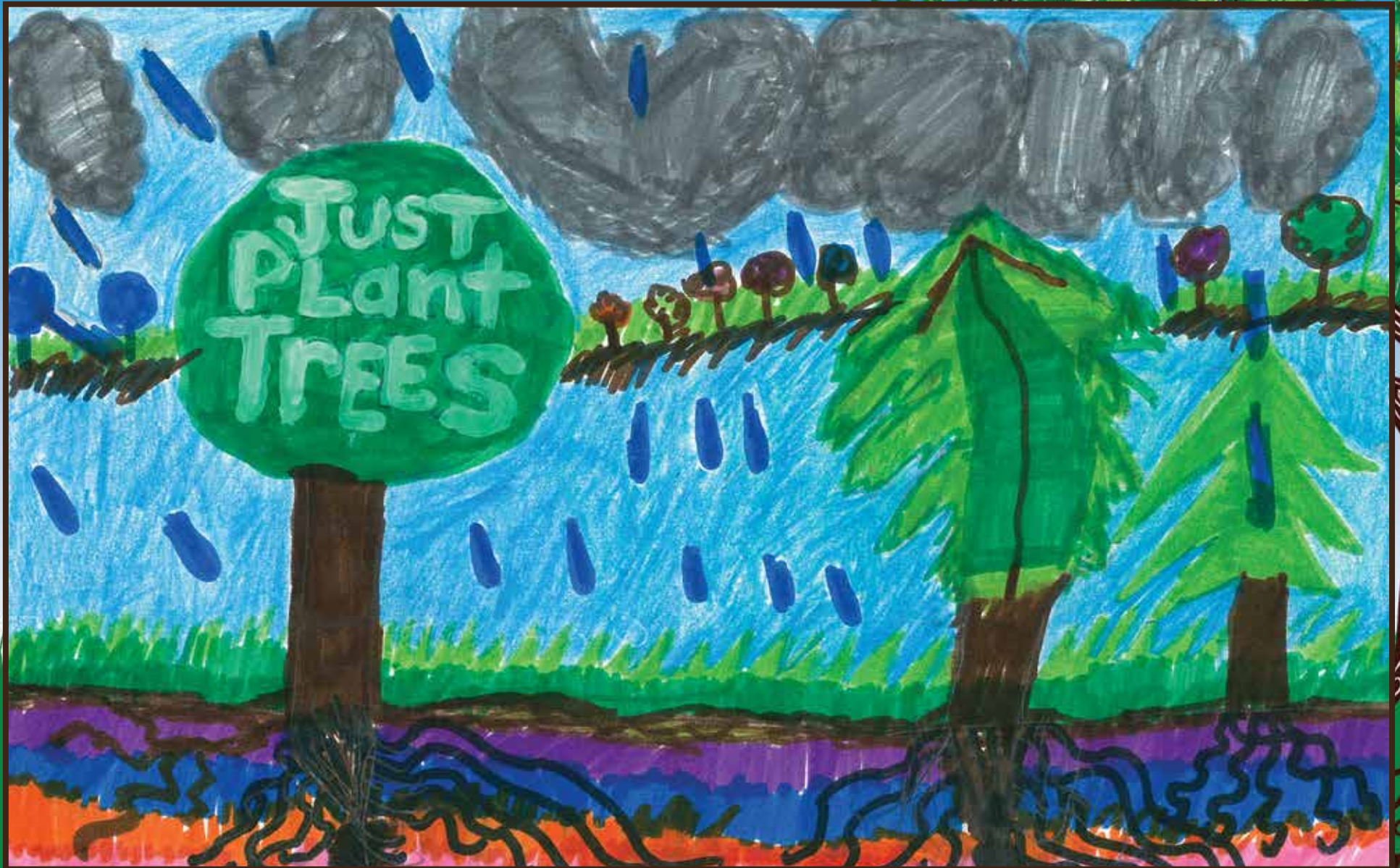Fruitville Elementary, Grade 1
Teacher, Helen Cao

Sarasota County

July 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	● 4 Independence Day	5 Liberty Litter Cleanup	6	7	8	9
10	◑ 11	12	13	14	15	16
17	18 ○	19	20	21	22	23
24	25 ◑	26	27	28	29	30
31						

Trees help water soak into the ground and hold soil in place with their roots.

Just Plant Trees

Taylor Joseph Moscato-Boggs, Age 9
Oak Park Elementary, Grade 3
Teacher, Patrice Kennedy

Sarasota County

August 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 ●	2	3	4	5
6						
7	8	9 ◑	10	11	12	13
14	15	16	17 ○	18	19	20
21	22	23 ◐	24	25	26	27
28	29	30	31			

July 2016

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

September 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Trees reduce the need for grass, fertilizer and mowing.

Joanna Graczyk, Age 9
St. Martha Catholic School, Grade 3
Teacher, Mary Jo Salomone

Sarasota County

September 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
August 2016 / October 2016				● 1	2	3
4	5 Labor Day	6	7	8 ◐	9	10
11	12	13	14	15 ○	16	17 International Coastal Cleanup
18	19	20	21	22 ◑ First Day of Autumn	23	24
25	26	27	28	29 ●	30	

August 2016

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

October 2016

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Trees help off-set a city's "heat island effect" caused by concrete and asphalt.

Lisa Zhang, Age 10
Ashton Elementary, Grade 5
Teacher, Carol Sunshine

Sarasota County

October 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
September 2016 / November 2016						1 — Sarasota County Fertilizer Restricted Season Ends
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

November 2016

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Trees provide fruit in your own yard.

Lilly McCauley, Age 7
Tabernacle Christian School, Grade 1
Teacher, Sandy Hartman

Sarasota County

November 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5
6 Daylight Saving Time Ends	◑ 7	8	9	10	11 Veterans Day	12
13	○ 14	15	16	17	18	19
20	◑ 21	22	23	24 Thanksgiving Day	25	26
27	28 ●	29	30			

October 2016

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

December 2016

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Trees provide homes and food for young shrimp, crabs and fish.

Cadence Rossmann, Age 10
Pine View School, Grade 5
Teacher, Margaret Spies

Sarasota County

December 2016

Branch Out
PLANT A TREE

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
November 2016 S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	**January 2017** S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31			1	2	3
4	5	6 ◑	7	8	9	10
11	12 ○	13	14	15	16	17
18	19 ◐	20	21 First Day of Winter	22	23	24
25 Christmas Day	26 Christmas (observed)	27	28 ●	29	30	31 New Year's Eve

Branch Out
PLANT A TREE

Tree Rainfall Interception

When rain falls something amazing happens. Tree leaves **intercept** and host thousands of raindrops. Some of the raindrops **evaporate**, and some fall off the leaves directly into the ground called **throughfall**. Others travel down the tree trunk by what is called **stem flow** and make their journey into the soil around the tree. After the rain water hits the ground, three things happen as the roots help it infiltrate into the Earth. The first is **deep seepage** which recharges the underground aquifer. Next is **baseflow**, which moves laterally just below the surface and flows into ponds, lakes and rivers. Then when the soil is saturated, rainwater can't infiltrate and becomes **runoff**, which flows across the land and into our bays, picking up pollutants on its way. Finally, the rainwater that remains is absorbed by the **root uptake** and moves back up into the tree to feed branches and leaves. As the tree breathes and grows, it holds pollutants and releases moisture and oxygen called **transpiration**, through its leaf pores and sends it back into the atmosphere. Once enough moisture is released, it forms clouds and the rain cycle begins again.

Trees truly are one of nature's best tools for keeping the Earth clean and healthy.

Interception Evaporation

Rainfall

Transpiration

Interception

Throughfall

Infiltration

Deep Seepage

Stem Flow

Runoff

Baseflow

Root Uptake