

Sharecropper

Tarrant County Master Gardener Association



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Compost's Magic Number: What 30:1 Really Means

*By Marilyn Sallee,
Texas Certified Master Composter and Trainer*



For those with even a passing knowledge of composting, 30:1 is an important number – the ratio of Carbon to Nitrogen, or C:N = 30:1. The ideal compost pile is comprised of vegetative material with a proportion of 30 carbon molecules to each one nitrogen molecule. But what does that really mean in hands-on composting?

Often the C:N is explained in terms of “Browns” for Carbon and “Greens” for Nitrogen. But actual color has nothing to do with content. Dark brown coffee grounds are high in nitrogen, so coffee grounds are “green”. Corn stalks may look bright green, but are high in carbon “browns. And unbleached recycled paper, which often has a green color, is a very high carbon source, very “brown”. Kitchen scraps might be red strawberries or white potatoes, but they are both very “green”.

The best way to tell if things are “green” or “brown” is to look it up in a C:N table, available in several places online. (see resources at the end).

By looking it up in the table we can see that coffee grounds are 20 or 20:1, smaller than 30, so is “green” with more nitrogen to carbon than the ideal 30:1. While shredded office paper runs 125 to 180, bigger than 30 by a lot. So office paper is very “brown” no matter what color it is. But newsprint has even more wood fibers, so is even more “brown” at 400-850 to 1. And marsh hay (32:1) and potato tops (28:1) are both quite close to the magic 30:1 ratio and a perfect mix to begin with.

What that means is that a pile of pure coffee grounds has too much nitrogen and will need some “browns” to com-

(Continued on page 2)

If you have an idea or would like to contribute to the newsletter, please contact Jackie Heidinger

rheidinger@tx.rr.com



post efficiently. Likewise, a pile of shredded office paper is way too “brown” and will need a lot more nitrogen to compost efficiently. But piles of potato tops or bales of hay will compost down naturally over time with proper moisture and air.



But compost piles are seldom only one type of material. Mostly they are a mix of several types of vegetative materials, such as leaves and grass clippings or kitchen scraps and garden waste. While you can look up the C:N numbers for any one product, how do you mix them correctly?

First, all ratios are given by weight.

Think about leaves – they can be newly raked light and fluffy in a big pile, or shredded and compacted into a dense mat. But the piles would weigh the same. --- if they are DRY! Likewise, grass clippings can be a wet, newly mown in the morning pile, or a dry pile mown on a hot day. What would that pile weigh dry? It is the dry weight we need, no matter how finely it is shredded. With the C:N number and the weight, we can adjust any material to the proper 30:1 ratio or find what we need to add to get it there. Here is an example: (You can use a calculator for this part)

7 pounds of garden waste (Radish, Rhubarb, and Tomato leaves) 20:1

3 pounds of Potato tops 28:1

= 10 pounds Total Weight

So 7 of 10 pounds at 20/1 –and- 5 of 10 pounds at 28/1:

$$(7/10 \times 20/1) + (5/10 \times 28/1) = 14 + 14 = \underline{28}$$

Just a little too much nitrogen (number is less than 30). We need to add something with a bigger number, but just a little bit of it. How about if we add 2 pounds of fall leaves at 40:1? Now we have a total weight of 12 pounds:

So 7 of 12 pounds at 20/1 –and- 5 of 12 pounds at 28/1 –and- 2 pounds of 12 at 40:1:

$$\begin{array}{rccccccc} (7/12 \times 20/1) & + & (5/12 \times 28/1) & + & (2/12 \times 40/1) & & \\ = 11.67 & + & 11.67 & + & 6.67 & = & \underline{30 \text{ Perfect!}} \end{array}$$

Now you know how to build that perfect compost pile which will break down to a rich humus – with only adding water and turning to give it air.

SIDEBAR: Dealing with Ranges

Sometimes the tables don't give one single number for the C:N ratio, but gives a range.

For example: leaves are usually a range, given as 40-80:1. So is it 40:1 or 80:1 or what?

It could be that different types of leaves have different ratios. The range given could be that Elm leaves are 28:1, Red Oak leaves are 53:1, and Larch leaves are 113:1, so the range is just a ballpark figure or average. You can look up specific tree types in the tables for a better number if you know what type you have.

Or it could be that the spring leaves, young and fresh, but blown down in a windstorm, have a lot more nitrogen in them than the brown leaves in the fall that have lain on the ground until you raked them up. Generally older materials have given up some nitrogen gas, but retained its carbon molecules. So the higher number is for the older leaves.

Luckily, the compost pile itself will tell you if the ratio is right – by how fast it heats up, drops in size, smells and feels. That takes some experience. So start a pile today and start learning the finer points.

Resources:

C:N ratio lists:

<http://compost.css.cornell.edu/OnFarmHandbook/apa.tab1.html>

<http://www.norganics.com/applications/cnratio.pdf>

Booklet:

<http://www.composterconnection.com/composterconnection/images/uct-9-guide.pdf>

Articles:

<http://www.rockymtnbioproducts.com/pdf/Understanding%20the%20Carbon-Nitrogen%20Ratio.pdf>

<http://www.squidoo.com/compost-garden>

Happy Composting! – Marilyn Sallee



MATERIALS for COMPOSTING



Plant Materials ONLY

no meat, dairy, plastic, etc.



Chop or Break it up FINE

no thicker than your finger

no rounder than a golf ball

no longer than your hand



Can you break it with your bare hands?

Can you hide it in your palms?

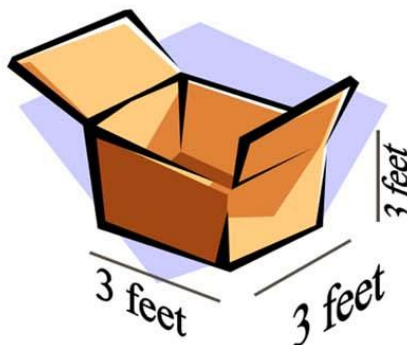
If not - it's too big - chop it up.



5 REQUIREMENTS of COMPOST

MASS

At least a 3 ft. cube



MATERIALS

Carbon (leaves)



Browns



Nitrogen (grass)

Greens

30:1 ratio
of C:N



MOISTURE

50%



Feels like wrung out sponge



AIR

Decomposers
need to breathe



TIME

How long? – depends on first 4 points



Dear Gardener Friends,



Have you been enjoying a Texas summer for a change? Mother Nature has done an about face from last summer's brutal drought and heat and blessed us with rain and cooler temps (for Texas anyway.) Of course we can't assume the occasional rain or reasonable temperatures will last through the rest of the summer, but we can enjoy it for now.

As the summer heats up, you can still be an active TCMGA member. Work at an **MG project** early in the morning and remember to drink lots of water to stay hydrated. Want some variety in your week? Try volunteering at a different location. You will meet more MGs and educate yourself about that project's mission.

Volunteer at locations with air conditioning! Sign up for **phone duty** at the extension office, yes the phones are ringing, emails are pending and questions need to be answered.

Join the **Speaker's Bureau**. The best way to learn more about a topic is researching current information for a presentation! Most speaking engagements are located indoors. Contact Camille or Starr if you are interested.

Register for a **Specialist class** or a **TCMGA Garden class**. Interesting topics presented in a fun and entertaining way while you earn your CEUs!

Attend a planning meeting for our upcoming TCMGA **Regional Conference** October 13. The kickoff for registration is August 1. In the meantime, details and loose ends are being worked on to make this an amazing event we will all be proud to sponsor. It will take all of us to make it happen!

Make a plan to **beat the heat** and have some **fun** by coming to the **August meeting**. Enjoy some time with your gardener friends, in an air conditioned gym, enjoy a delicious lunch!

During the July meeting, the membership elected 4 members to serve on the Nominating Committee with Nominating Committee Chair Sue Ellen Schlitzer. If you are interested or would like to offer a suggestion for an officer's position for 2013 contact Sue Ellen or a member of the committee. Nominations of officers will be presented to the membership during the September meeting. Elections will be held during the October meeting.

Sign-up now for the **2013 International Master Gardener Conference** cruise to Alaska September 7 -14, 2013. Go online to <http://www.uaex.edu/imgc2013/> for more information and to register.

Watch for information about the **Texas Master Gardener State Conference**, October 17 – 19, 2013. Blooms, Birds, & Butterflies in Cameron and Hidalgo Counties (South Texas.)

See you in the garden!

Nancy Curl, President
Tarrant County Master Gardeners

Please note: We are doing things different today. There will be a brunch before the meeting begins. The program will be between two parts of the business meeting to allow for voting on nominating committee, vote counting, and result announcement. There will be no lunch or afternoon program.

President Nancy Curl called the business meeting to order at 10:05am. She welcomed those in attendance and introduced our visitors. We had 128 Certified Master Gardeners, interns and visitors present. President Curl paid tribute to all current and former members of the military present. Steve Purdy led the Pledge of Allegiance.

Executive Board

The June minutes were approved as published in the newsletter.

Ways and Means – Linda Hawkins reports that there will be a fall bulb sale in September. We will now also offer for sell organic fertilizer. This will be in August. She needs someone to come forward to chair the rose sale. We have obtained worm castings from Geno of Geno's Greens. They will be available in 40 pound bag for \$25. A 20 pound bag will sell for \$15. Please place your orders with Linda. First come first serve.

Pam Braak, Treasurer

Treasurers Report For the month ended June 30, 2012

Cash, beginning 6/30/2012	38,179.89
Deposits during month	4,489.38
Checks during month	(2,177.49)
Cash, Ending 6/30/2012	<u>40,491.78</u>

Pam also reported that the garage sale proceeds were \$1,051 which is \$243 over last year. Silent Auctions earned \$2,175 plus \$10 donation which is an increase of \$677. BBQ earned \$387. The total amount available this year for projects is \$7507 which is \$1500 more than last year.

Committee Reports

Thank you to Dave Wilson for the BBQ and Shirley Mills and her committee for our wonderful brunch and everyone who brought food.

Raffle - Donna Fry Due to garage sale in June the raffle will be extended to August. Tickets are \$10 each or 3/\$25. Tickets will be available at the August meeting. Drawing will be held at August meeting.

Field Trips - Patsy Miller Field trip to the Dallas Arboretum is scheduled for September 20. We will get a behind the scenes. We have to pay for parking but Patsy is still in negotiations on price we will pay for admission. This will include the Chihuly Exhibit.

Regional Conference - Nancy Curl We had a very productive meeting about the conference and another one is scheduled for July 19 at 10am at the Extension office. Nancy will email information that we have so far. Please contact leads to help. The title of the symposium is "Floods to Drought-Gardening in North Texas".

Unfinished Business

Nominating Committee nominations and vote

We have a confirmed quorum present so the vote will continue for nominating committee members.

Ballots were handed out to certified master gardeners only.

Nominees for the nominating committee were announced: Ginger Bason, Patsy Miller, Susan Stanek, Theresa Thomas and Dave Wilson. The chair asked if there are any more nominations and Joe Poppelreiter nominated LaVonne Nowlin. Nominations were closed, blue badge members voted for 4 members to serve.

The meeting was temporarily adjourned to allow ballot counting and program.

Upon re-adjourning, President Curl announced the results of our vote

Ginger Bason, Theresa Thomas, Patsy Miller, Dave Wilson are our new nominating committee with Sue Ellen Schlitzer as chair.

The program, Friends in the Garden was presented by Troy and Martha Mullens.

The business meeting resumed at 11:09am.

Programs - Claire Alford presented the list of programs for the rest of the year.

- August-Hardscape by WhizQ Stone
- September-hydroponics
- October- Steve's Leaves
- November-Bulbs and blue birds
- December-Christmas party

Announcements

Susan Miller wants trial garden to start work at 7:30 am on Thursday

Perennial Garden had 7 workers come out on July 4.

We have several classes coming up. Please come take some, they're inside and cool. Thank you Patsy Miller for publicizing our classes so well.

Kim Freeman is out of rehab and moving into her own apartment soon. Please remember her.

Claire Alford's mom passed away.

State Conference in 2013 will be Blooms, Birds & Butterflies; Cameron & Hidalgo Counties (McAllen) October 17 - 19 to coincide with the monarch butterfly migration.

International conference will be September of 2013.

Ed Vaughan still wants no visitors but please send funny cards.

Meeting was adjourned at 11:30a

**Respectfully Submitted by
Donna Morris, Secretary**

NEEDED: MG GEOCACHER

If you do geocaching, you might already know that TCMGA has geocaches in most of our demonstration gardens. A geocache is a small treasure box that you sign when you find it, and draws the public to our educational areas.

We need an experienced geocacher to help maintain the caches. This is not a big job -- just check when the log flags that it needs repair, usually once or twice a year. These caches have been in place for 4-5 years with no problems.

If you are interested, contact Marilyn Sallee at: [msallee111\(at\)yahoo.com](mailto:msallee111@yahoo.com) or at Odysseus2000 on geocaching.com.



August Guest Speaker

Derek and Mike from WhizQ Stone will speak both hours on hardscapes within the landscape. They will speak on two topics, ponds and using hardscaping to help make a water wise landscape

ATTENTION ALL MGs - TCMGA DUES

It's just about time to renew your yearly TCMGA dues! Dues notices will be sent out via US Mail by mid August. Dues are payable by no later than the end of October 2012. You can either return a check for your \$20.00 dues made out to TCMGA in the envelope you receive in the mail or you can give your check to the Membership Chair at either the September or October TCMGA monthly meetings.

But wait -- there's more! You can pay your dues early in person at the August monthly meeting. Steve Purdy, the Membership Chair, will be available to collect your checks. By paying early, you can save TCMGA the cost of a stamp.

Beat the rush! Take advantage of this once a year opportunity!

Questions? Call Steve Purdy at [817-545-7888](tel:817-545-7888) or email to spurdy06@sbcglobal.net

2012 LEADERSHIP

President: Nancy Curl
nl_curl@yahoo.com

1st VPresident: Claire Alford
caagardner@aol.com

2nd VPresident: Linda Hawkins
lindamhawkins@gmail.com

Secretary: Donna Morris
[morisdl@swbel.net](mailto:morrisdl@swbel.net)

Treasurer: Pam Braak
P.braak@verizon.net

Acknowledgements: Pat Lovejoy
palovejoy@att.net

Activities: Patsy Miller
pjmiller24@sbcglobal.net

Awards, Local: Jody Puente
Mipuente@msn.com

Sunshine: Doris Hill
artanddoris@verizon.net

Bulletin Board: Theresa Thomas
kayleatl@sbcglobal.net

Garden Resource: Dave Wilson
ldwilson98@yahoo.com

Historian: Jackie Peel
jackiepeel@sbcglobal.net

Hospitality: Shirley Mills
smills72@att.net

Membership: Steve Purdy
spurdy06@sbcglobal.net

Newsletter: Jackie Heidinger
rheidinger@tx.rr.com

Nominating: Sue Ellen Schlitzer
S.schlitzer@sbcglobal.net

Photography: Sally Harris
sallyjanharris@mac.com

Projects Coordinator: Judy Ratzlaff
judy.ratzlaff@yahoo.com

Raffle: Donna Fry
dfry1212@hotmail.com

Website: Jackie Heidinger
webmaster@tarrantmg.org

Announcing 2013 Slate of Officers

The Nominating Committee is proud to announce an outstanding slate of officers for 2013. The following individuals have a strong and proven track record of service with TCMGA and have agreed to serve on the 2013 Executive Board, if elected.

President – Patsy Miller
 1st Vice President, Programs – Taddie Hamilton
 Secretary: Donna Miller
 Treasurer: Pam Braak
 Ways and Means: Linda Hawkins

These individuals will be introduced at the August meeting. Additional nominations from the floor may be made at the September and October monthly meetings.

A special thanks to the Nominating Committee members: Ginger Bason, Patsy Miller, Theresa Thomas and Dave Wilson who assembled this list of nominees.

Sue Ellen Schlitzer
Nominating Committee Chair

Raffle Committee Update

The new item for the raffle is a McCullough Electric Chipper/Shredder. It will chip limbs up to 2" and shred leaves and shrub trimmings to produce great materials for your compost bin. The retail value is \$250. Or you can choose to bid on a \$100 gift certificate from Callo-ways. The drawing will be held at the August TCMGA meeting.

Tickets are \$10 each or 3 for \$25. Remember, all proceeds from the raffle benefit our MG projects.

Donna Fry
Raffle Committee Chairman



HAPPY BIRTHDAY GARDENERS!

August Birthdays

1 Toni Moorehead, Joanne McClendon,
 Penny Sambell
 5 Kathryn Whitaker (I)
 6 Sue Fair
 7 Lisa Bratton, Jill Pitcher (I)
 9 Janice Richardson
 10 Sue Short, Patsy Miller
 15 Sandy Williams, Cindy Woelke
 18 Barry Smith (I)
 21 Nancy Curl
 22 Sandy Landry
 24 Kathy Staley
 25 Mary Kay Hughes, Jane Bruckner
 26 Beverly Beazley, Susan Harper

If your birthday is this month and you don't see it, please contact
Doris Hill, (817) 337-8484 or email
artanddorishill@verizon.net.

Directory Changes

Please note the following TCMGA Directory Changes:

- Ed Vaughan's new phone and address
 817-953-7155
 2151 Green Oaks Road, Apt. #4310
 Fort Worth, TX 76116

If you have changes in your contact information, please contact Steve Purdy at spurdy06@sbcglobal.net



On June 28 Tarrant County Master Gardeners took a trip to Royse City to learn first hand about growing lavender. June Hand (pictured left), owner of Purple Ranch Lavender Farm, shared the challenges of growing Provence lavender in the heavily amended former cotton field and the joys of turning the lavender into useful beauty and medicinal products.

It's a family operation with her husband and children helping to tend the lavender. They harvest lavender by hand with scissors which is usually completed by June. New plants are propagated from cuttings; they have found that seed does not come back true. Replanting is done in November, but June warns not to give up on a seemingly dead plant. Often green new growth will appear.

June's planting method involves creating a one-foot hill, poke hole with a stick and plant the lavender. Flatten the top to create good drainage.

Lavender has been used for centuries to soothe headaches, backaches, repel mosquitoes and as a calming agent. June, husband and daughter spend many weeks selling their products at venues all over Texas renewing acquaintances and making new friends.



**It's Chihuly at the Dallas Arboretum
and Tarrant County Master
Gardeners will be there.
10 a.m. September 20**

**Sign up at the August/September
meetings.**



Contemporary art superstar Dale Chihuly brings his hand-blown glass sculptures, some of which are more than 30 feet tall, to 24 locations throughout the 66-acre garden. Master Gardeners will also get a behind-the-scenes look at how the gardens grow. It's the day before the opening of Autumn at the Arboretum so the Pumpkin Village will be on view and more than 150,000 fall plants and flowers.

Prices include parking and a \$1 charge for an MG honorarium.

Adults (13-64) - \$14

Seniors (65+) - \$11

Botanic Gardens Memberships – Free (\$1 suggested for honorarium)

Contact Patsy Miller at 817-275-5306, pjmiller24@sbcglobal.net for more information.

**Directions to the Dallas Arboretum
8525 Garland Road, Dallas 75218**

We will have a car pool from the Fort Worth Botanic Gardens **leaving at 9a.m.** Other car pools are encouraged as parking is limited at the Dallas Arboretum. From Fort Worth it takes about 45 minutes. Take I-30 east toward Dallas and continue on I-30 as you pass downtown Dallas. Take exit 48B/Barry/E. Grand exit. East Grand is second light after exiting I-30. Turn left at the light onto E. Grand and continue about 3-4 miles. E. Grand becomes Garland Rd. The Arboretum is on the left--just past White Rock Lake. Park inside the Arboretum gates and meet out front by the entrance.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 8a BG Perennial 8a Veterans Pk 8:30a Common NRH 9a Teen Challenge 9a CG Herb Work 8a Thistle Hill	2 8a Liberty Garden 8:30a Alice Carlson 8:30a BG Trial TCMGA Meeting	3	4 8:30a Common NRH 8a Veterans Park-Wildscape 9am Compost Demo—Veterans Park Texas AgriLife Seminar “Fall Vegetable Garden”
5	6 8:00a Heritage 8:30a Alice Carlson 9a Union Gospel 9a Fitzgerald	7 8a Samaritan House 8:30a CG Veggie 9a CG Propagation Work Day 9a CG Rose Garden Work Day	8 8a BG Perennial 8a Veterans Pk 8:30a Common NRH 9a Teen Challenge 9a CG Herb Work	9 8a Liberty Garden 8:30a Alice Carlson 8:30a BG Trial	10 8:30a JPS Meditation Garden	11 8:30a Common NRH 9am Composting Demo—River Legacy 9am SW Crthse
12	13 8:00a Heritage 8:30a Alice Carlson 9a Union Gospel 9a Fitzgerald	14 8a Samaritan House 8:30a CG Veggie 9a CG Propagation Work Day 9a CG Rose Garden Work Day	15 8a BG Perennial 8a Veterans Pk 8:30a Common NRH 9a FW Hulen Lbry 9a Teen Challenge 9a CG Herb Work 9a Bob Jones Nature 8a Thistle Hill TCMGA RCCG Class— Living Wreath/with Clay Pots and	16 8:30a Alice Carlson 8:30a BG Trial	17	18 8:30a Common NRH
19	20 8:00a Heritage 8:30a Alice Carlson 9a Union Gospel 9a Fitzgerald	21 8a Samaritan House 8:30a CG Veggie 9a CG Propagation Work Day 9a CG Rose Garden Work Day	22 8a BG Perennial 8a Veterans Pk 8:30a Common NRH 9a SW Crthse 9a Teen Challenge 9a CG Herb Work	23 8:30a Alice Carlson 8:30a BG Trial	24 8:30a JPS Meditation Garden	25 8:30a Common NRH
26	27 8:00a Heritage 8:30a Alice Carlson 9a Union Gospel 9a Fitzgerald	28 8a Samaritan House 8:30a CG Veggie 9a CG Propagation Work Day 9a CG Rose Garden Work Day	29 8a BG Perennial 8a Veterans Pk 8:30a Common NRH 9a SW Crthse 9a Teen Challenge 9am SW Crthse 9a CG Herb Work	30	31	

Upcoming Resource Connection/ Community Garden Classes

Tuesday, July 24, 2012 10 am – 12 noon

Native & Adapted Ornamental Grasses

Class Fee: \$5

RC, Bldg 2300, room 2351

Class limit: 30

Wednesday, August 15, 2012 10 am – 12 noon

Living Wreath w/ Clay Pots & Succulents

Class Fee: \$25

RC, Bldg 2300, Gym

Class limit: 20

Saturday, September 15, 2012 10 am – 12 noon

Perennials

Class Fee: \$5

RC, Bldg. 2300, gym & garden

Class limit: 20

Saturday, September 22, 2012 10 am – 12 noon

Water Features in the Garden

Class Fee: \$15

TCMGA Garden

Class limit: 20

Saturday, October 13, 2012 9 am – 3 pm

TCMGA Regional Conference**

Flood to Drought... Gardening in North Texas

Class Fee: \$45 (includes box lunch and snacks)

Limit: 250

Earn 6 CEU Credits

Open to all Master Gardeners and general public.

Registration opens August 1, 2012

To register contact Billie Hammack at

blhammack@ag.tamu.edu

Saturday, November 10, 2012 10 am – 12 noon

Bugs - The Good, the Bad, & the Ugly

Class Fee: \$ 5

RC, Bldg 2300, Classroom

Class limit: 40

To register for a class contact Billie Hammack at

blhammack@ag.tamu.edu

To schedule a class contact

Nancy Curl nl_curl@yahoo.com

**2 hours CEU credit for
Master Gardeners**

2012 Home Horticulture Seminars Texas AgriLife Extension Service

"Fall Vegetable Garden" The Best Season in Texas

August 4, 2012

1:00 pm-5:00 pm

Lonestar A&B

"Native & Adapted Plants"

September 1, 2012

10:00 am-12 Noon

Lonestar A&B

"Landscape Design"

November 3, 2012

1:00 pm-5:00 pm

Lonestar A&B

"Individual Consultations"

December 1, 2012

10:00 am-12 Noon

Lonestar A&B

Please call 817-884-1296 to RSVP for the class.

Classes will be held in the Conference Rooms of the Tarrant County Plaza Building and are open to the public.

Cost of each class is \$15.

Educational programs of the Texas AgriLife Extension Service are open to all public without regard to race, sex, disability, religion, age or national origin.

The Texas A&M University System, U.S. Department of Agriculture and the County Commissioners Courts of Texas Cooperating. Individuals with disabilities who require an auxiliary aid, service or accommodation in order to participate in any of our meetings are encouraged to contact our office at 817.884.1945 for assistance.

Project Code & Name	Work Days/Times	Project Manager	Phone
301 BRIT Activities	Call Chairman	Kay Yount	817-292-7690
302 BG Perennial Garden	Wed. 8:00 am	Cindy Woelke	817-366-4436
302 BG Children's Garden		Dolores Geisel	817-446-4536
302 BG Trial Garden	Thurs. 8:30-11:30am	Susan Miller semiller@sbcglobal.net	817-261-1420
303 Community and Demo Garden Chair	Bill Vandever, bvandever@sbcglobal.net		817-244-1580
Project Leads			
Community Garden, Tuesdays			
Barn Beds	Charlotte Berck, caberck@dot11net.		817-426-6417
Compost & Rainwater Harvesting			
Community Vegetable Beds	Pat Higgins, ragdollpatb@sbcglobal.net		817-946-6278
Demonstration and Enabling Beds	Frank Durda, fdurda@hotmail.com		817-292-2270
Education	Nancy Curl, nl_curl@yahoo.com		817-319-1795
Education – TCU	Lance Jepson ljepson@aol.com & Pat Higgins	817-557-6122	817-946-6278
Enabling Garden	Frank Durda, fdurda@hotmail.com		817-292-2270
Greenhouse/Propagation	Claire Alford, caagardner@aol.com		817-481-8861
Herb Garden, Tuesdays	Rita Hottel, rnhottel@att.net		817-295-2883
Hospitality (Cook-outs)	Beverly Beazley, babeazley@tx.rr.com		817-483-7080
Orchard	Renee Beckum, jrbeckum@sbcglobal.net		817-790-8575
Perennial Garden	Ginger Bason & Joann Hahn, gbason@hotmail.com, joannhahn@att.net	817-838-7321/817-923-9250	
Plant Sales	Carol Lally & Linda Winn lallyca@sbcglobal.net, mwinnclan@aol.com	817-656-2736/817-581-4486	
Potting Shed	Pat Lovejoy, palovejoy@att.net		817-447-7924
Rain Barrel Construction	Claudia Teague, cteague@flash.net		817-444-2247
Rose Garden, Tuesdays	Nan Garvin, garbre@hotmail.com		817-477-2867
304 Thistle Hill	1 st , 3 rd Weds. 8:00 am	Sue Fair	817-266-2514
304 Union Gospel Mission	Mon. 9 am	Gay Larson	817-441-6560
304 Teen Challenge	Wed. 9 am	Debbie Bollinger	817-498-1508
304 Common Ground NRH Community Garden	Wed. & Sat 8:30a-12n	Diane Spradling Sandra Totty Annette Lee	817-431-4666 817-281-7877 214-803-2219
304 Six Stones/City of Bedford Community Garden			
304 The Samaritan House	Tues. 8am-11a	John Pinkerton	682-433-2529
304 JPS Meditation Garden	2nd & 4th Fri. 8:30am	Bernice Ramsbottom	817-485-6631
203 Grapevine Botanic Garden Docents	Call Chairman	Rachel Clark, Co-Chair Paula Wilbanks, Co-Chair	817-488-003 817-481-4398
Environmental Projects:			
305 Composting Demo	1st Sat., Veterans Pk, Arlington 2 nd Sat., River Legacy, Arlington	LaVonne Nowlin Charlie Shiner	817-581-1850 817-488-6123
305 FW Library at Hulen St.	3rd Wed. 9 am	Evaline Woodrey	817-295-5182
305 SW Sub-Courthouse	2 nd Sat., last Wed. 9 am	Gailon Hardin	817-475-0923
305 Southlake Liberty Garden	Call Chairman	Wendi Carlucci	817-488-5640
305 Veterans Park-Wildscape	2nd Thurs., 8-11 am Wed. 8am-11am	Molly Hollar	817-319-6924
305 Bob Jones Nature Center	1st Sat., 8am-11am 3rd, Wednesday, 9 am	Nancy Searl	817-542-3190
School Gardens:			
306 Alice Carlson OLE	Mon. & Thurs. 8:30 am	Sharon Chastain	817-926-2575
306 Fitzgerald OLE	Mon 9:00 am	Leeann Rosenthal	817-237-7180
306 Heritage School OLE	Mon. 8-10am	Pam Braak & Harold Annis	817-488-5665 817-481-6242



Important Websites to Know!



Our local TCMGA website:	http://www.tarrantmg.org/
State MG Website and TMG news:	http://www.texasmastergardeners.com
State Newsletter:	http://www.tmganewsletter.org
Our RC Demo Garden Website:	http://www.localharvest.org/member/M27123
Native Plant Society of Texas	http://npsot.org
Aggie Horticulture:	http://aggie-horticulture.tamu.edu
Earthkind:	http://aggie-horticulture.tamu.edu/earthkind
Texas Superstars:	http://texassuperstar.com
Fort Worth Botanic Garden:	http://fwbg.org
Wildscape:	http://thewildscape.org
Botanical Research Institute of Texas:	http://www.brit.org

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