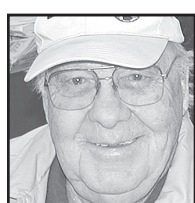


Garden needs heat, moisture to produce

Everybody knows that it takes heat to produce a crop, whether in the garden or out on the back forty. Nearly all plant life must have warmth to survive. Moisture and sunlight are a couple of other requirements. But too much heat can cause bad things to plant life and there can be a fine line between too much heat and a good growing environment. It depends a lot on the plant you're trying to grow.

Not much grows in Death Valley, Calif. Death Valley is 282 feet below



kay melia
• the gardener

sea level, the sixth lowest land mass in the world. Last year, there 154 consecutive days of 100 degrees or more. The hottest temperature ever recorded in Death Valley was 134 degrees, the second hottest temperature ever recorded on earth. And yet,

235 people actually live in Death Valley, and very few of them have a garden. Most of them seldom venture outside where asphalt roadways can reach 200 degrees during the summer season.

Here in northwest Kansas, the hottest temperature ever recorded in modern times was 111 degrees on July 25, 1940. Last year, 2009 in Goodland, the thermometer

recorded 100 degrees only once on Aug. 7. This year, we have reached 100 degrees only three times, once in June and twice in July. Both July readings were 102 degrees on the 13th and the 17th.

Last, The National Weather Service in Goodland recorded 27 days of 90 degrees or more through Aug. 15. This year, we have reached 90 degrees or more on 41 different days as of Aug. 15. So yes, it has been warmer this summer than last, but not by much and can't be compared

to four or five different years in the 1930s during the Great Depression. Rainfall has been a little above average so far this year and the rains have been timely. Crops have been excellent throughout the area and the corn and sunflower crops look very promising. Pasture grasses have generally supported livestock extremely well, again thanks to the timeliness of the good moisture.

And the gardens? Most of us who toil in the backyard will probably tell you it has been very productive

out there, despite great hoards of weeds of all kinds. Summer heat and humidity have brought us hordes of grasshoppers, always the most abundant where the weeds enjoy the luscious growth.

The weeds and grasshoppers, nor the tomatoes and green beans do well in Death Valley. Those residents there must travel the hot asphalt roads to the nearest Walmart for most of their sustenance and more often than normal for tires and freon.

Wheat seeding tips for good stand establishment

Getting a good stand of wheat during the optimum time in the fall is an important first step in getting good yields. Often, problems with plant growth and development later in the year can be traced back to poor emergence or inadequate root growth and tiller development in the fall and early winter.

According to Jim Shoryer, K-State Wheat Specialist, here are a few important steps producers can take to improve their chances of getting a good stand of wheat:

- Proper tractor speed. It is best to use a tractor speed of between 5 and 6 mph in most cases when drilling wheat. If higher speeds are used, the openers will tend to "ride up" in the soil, similar to effects of a speedboat pulling a water skier. At slow speeds, the water skier sinks into the water a bit; but once the boat picks up speed the water skier lifts to the surface of the water. The same principle applies to a tractor pulling a grain drill.

- Proper, uniform seeding depth. Ideal planting depth for wheat, in most cases, is about 1.5 inches. When planting early into very warm soils, it is especially important not to plant too deeply since coleoptile



jeanne falk
• extension district

lengths are shorter than normal under warm conditions. On the other extreme, producers should also be especially careful not to plant too deeply when planting later than the recommended time into very cool soils.

Getting a uniform seeding depth is also important. Where producers are planting into fields with heavy residue, or where there is uneven distribution of chaff, uneven planting depth can be a serious problem. In those situations, it is common to end up with poor stand establishment in areas of the field where the drill opener rode up over the residue or chaff, and was unable to penetrate the soil to the same depth as in other areas of the field.

- Firm seedbed. One of the most common problems in wheat stand establishment is planting into loose, fluffy soils. This problem tends to occur most often where soils

have been tilled repeatedly during the summer. When seeds are planted into loose soils, rains in the fall will settle the soil and leave the crowns of the seedlings too close to the soil surface. Having a good closing system behind the drill openers, with adequate down pres-

sure, should help.

- Adequate soil fertility. In general, producers should apply at least part of their nitrogen needs before or at planting time to get the plants off to a strong start. If the soil is low or very low in phosphorus or potassium, these nutrients should also be applied at planting time. This way plants benefit early in their development.

- Make adjustments for planting into row crop stubble. When planting wheat into grain sorghum stubble, producers will need an extra 30 lbs N/acre over their normal N rate. When planting wheat into soybean stubble, producers should not reduce their N rates since the N credit from soybeans doesn't take effect until the following spring. If the wheat is being planted no-till af-

ter row crop harvest, N rates should be increased by 20 lbs N/acre. Seeding rates should be increased when planting wheat late after row crop harvest. It's best to increase to 75-100 lbs/acre in western Kansas. When planting more than three weeks after the Hessian fly-free date, producers should use a seeding rate up to 120 lbs/acre.

Worship warms the heart



Calvary Gospel Church

Pastor: Randy Payne
Fourth & College • 890-3605
Saturday night: 6 p.m.
Sunday: Kid's Church: 10 am
Morning Service: 10 am
Prayer and Praise: 6:00 p.m.
Wednesday: Royal Rangers Missionettes 6:30 p.m.
Adult mid-week service: 7:00 p.m.
Youth @ the Rock House: 6:30 p.m.
Small Group Ministries meets throughout the week.
www.calvarygospel.net

Our Lady of Perpetual Help

Pastor: Father Norbert Diabal
307 W. 13th • 890-7205
Sacrament of Reconciliation:
5-5:45 p.m. Saturday or by appointment
Mass Schedule:
Saturday: 6 pm, **Sunday:** 10:30 am
Spanish Mass:
Sunday: 12:30 pm

Word of Life

10th & Clark • 899-5250
Pastor: John Coumerilh
Sunday: 9:30 a.m. - Morning Star Cafe Opens
10 a.m. - Worship Celebration
and Kids' Church
Life Groups - call for times and locations
www.wordoflifegoodland.org
A Foursquare Gospel Church

Pleasant Home Church

Serving the rural community
for over 100 years
Rt. 1, Box 180 • 694-2807 • 3190 Road 70
Pastor: Perry Baird
890-3375
Sunday: Worship Service: 9 a.m.
Sunday School: 10 a.m.

Bible Baptist Church

Pastor: Clifford Middlebrooks
Fifth & Broadway
890-7368
Sunday: Sunday School: 9 a.m.
Morning Service: 10 a.m.
Evening Service: 6:30 p.m.
Wednesday: Evening Bible Study: 7 p.m.

Church of Jesus Christ of Latter-Day Saints

1200 15th Street • Burlington, CO
(719) 346-7984
Sacrament Meeting: 10 a.m.
Sunday School: 11:15 a.m.
Priesthood/Relief Society: 12 a.m.

Iglesia Del Dios Vivo

La Luz Del Mundo
Spanish Speaking Church
Minister: Esteban Ortiz B.
1601 Texas • 899-5275
Daily Prayer: Sunday thru
Saturday: 5a.m. & 6 p.m.
Sunday: Sunday School: 10 a.m.

United Methodist Church Brewster:

Pastor: Dorine Chambers
Worship Service: 10:45 a.m. CST
Sunday School: 9:45 a.m. CST
Winona:
Minister: Sheryl Johnson
Worship Service: 9 a.m. CST
Sunday School: 10:15 am CST

First Christian Church (Disciples of Christ)

Pastor: Rev. Carol Edling Jolly
Eighth & Arcade • 890-5233
Sunday: Worship Service: 10:30 a.m.
Sunday School: 9:15 a.m.
Activities: Junior High & High School Youth Groups,
Adult Bible Study, Choir, Men's and Women's Groups,
Devotions Study, Monthly Fellowship
Special Notice: Handicap Accessible, Hearing
Assistance Equipment and Infant and Toddler
Nurseries Available

Kanorado

United Methodist Church
Pastor: Leonard Cox
399-2468
Sunday: Sunday School: 9 a.m.
Worship Service: 10:15 a.m.

Church of the Nazarene

Pastor: Bob Willis
Third & Caldwell
899-2080 or 899-3797
Sunday: Sunday School: 9:45 a.m.
Worship Service: 10:50 a.m.
Evening Service: 6 p.m.
Wednesday: Evening Service: 7 p.m.

Goodland United Methodist Church

1116 Sherman 899-3631
Pastors: Dustin and Shelly Petz
Saturday: Worship: 5:30 p.m.
Sunday: Adult Classes: 9:15 a.m.
Worship: 10:30 a.m.
Wednesday: Wednesday Nite Live
5:45 - 6:45 p.m. Simple Supper "Free will Offering
6:30 - 7:30 p.m. Classes for all ages

Goodland Bible Church

109 Willow Road • 899-6400
Pastor: Chad DeJong
Sunday: Sunday School: 9:30 a.m.
Morning Worship: 10:45 a.m.
Evening Worship: 6 p.m.
Wednesday: AWANA (Winter)
and prayer: 7 p.m.

First Baptist Church

Pastor: Travis Blake
1121 Main
890-3450
Sunday:
Coffee fellowship: 9:30 a.m.
Morning Worship: 10 a.m.
Sunday School: 11:15 a.m.
Thursday: Bible study 9:30 a.m.
Wheatridge Center

St. Paul's Episcopal Church

13th & Center
Church 890-2115 or Rectory 890-6969
Priest: Father Hal Lycett
Holy Eucharist: 10:00 a.m. Sunday
10:00 a.m. Thursday
Daily Morning Prayer
For emergencies 890-6969

Harvest Evangelical Free Church

521 E. Hwy. 24 • 890-6423
Pastor: Brian Fugleberg
Sunday: Worship: 9:30 a.m.
No Sunday School this summer.
Wednesday:
Senior high 6:30 p.m. at Chuck and Janet
Redlin's
www.goodlandefree.com

Seventh Day Adventist Church

1160 Cattletrail
Pastor: Jerry Nowack
Saturday: Sabbath School: 9:30 a.m.
Worship Service: 11 a.m.

Emmanuel Lutheran Church

13th & Sherman • 890-6161
Sunday: Christian education/fellowship:
10:15 a.m.
Worship Service: 9 a.m.

Church of Christ

401 Caldwell
890-6185
Sunday: Bible Study: 9:45 a.m.
Worship Service: 10:45 a.m.
Wednesday: Bible Study: 7 p.m.

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