

Halloween meets chemistry



DEBBIE SCHWANKE/Colby Community College
Colby Middle School eighth-grade teacher Jennifer Rall demonstrated a “puking pumpkin” in science class on Friday. She was assisted by Colby Community College students and Dr. Angie Rivenshield with Halloween-inspired chemical experiments.

Yields affected by hard freeze

MANHATTAN — A hard freeze in late October or early November usually comes too late to hurt row-crop yields in Kansas, but this year, a lot of grain sorghum and soybeans may not reach maturity before it freezes.

Kraig Roozeboom, Kansas State University Research and Extension crop production specialist, said a smaller proportion of the corn acreage also may face yield losses from the first hard freeze.

“This is due to a combination of late planting and relatively cool summer and fall temperatures,” he added.

The potential for yield loss on immature crops is different for grain sorghum, corn, soybeans, and sunflowers, Roozeboom said.

- Grain sorghum — Sorghum grain weight is not reduced by temperatures of 32 degrees. However, as the air temperatures fall below freezing, sorghum yields may be reduced, depending on the stage of grain development. Maximum damage occurs when plants are exposed for two hours or more to a temperature of 28 or lower; damage is less severe if plants are exposed for a shorter time.
- Corn — Corn leaves are not

seriously damaged at temperatures near 32. Damage to corn leaves begins to occur at temperatures below 29. An extremely hard freeze, 28 or lower, can result in damage to the ear shank. This prevents the plant from moving stored sugars into the developing grain.

If the grain is mature, a hard freeze will not directly reduce yields.

- Soybeans — Soybean leaves are not damaged until air temperatures reach 26 degrees. If the leaves are damaged close to the stem, then the stage of grain development will determine the amount of loss.

At the “beginning seed development” stage, soybean yield losses from freeze injury can range from 51 to 65 percent. At “full seed development,” when the seed fills the pod cavities and leaves begin to turn yellow, a hard freeze can cause an estimated 24 to 37 percent loss. At the stage of “beginning maturity” (R7), where one pod on the main stem has reached mature color and half the leaves are yellow, yield losses may range from zero to 11 percent. By the

time of “full maturity,” when 95 percent of pods are mature color and the leaves have dropped, a hard freeze will cause no loss.

- Sunflowers — Sunflowers are most susceptible to frost during the bud and pollination stages. Once the sunflower plant has reached the R7 stage, 10 to 14 days after petal drydown, the plant can withstand temperatures as low as 25 degrees with little damage.

More information, including calculating heat units and expected yield losses from freezes at different levels of heat unit accumulation in corn and sorghum and information about harvest options after a freeze, is available in the Extension publication MF-2234 “Fall Freeze Damage in Summer Grain Crops” at county and district Extension offices.

Corrections

The Colby Free Press wants to maintain an accurate record of our town. Please report any error or lack of clarity in a news story to us at 462-3963.

Atwood site for concert by the Pacers

The Rockabilly Hall of Fame band Sonny Burgess and the Legendary Pacers is coming to Atwood next 3 p.m. Sunday at the Rawlins County High School Auditorium, sponsored by the Western Plains Arts Association.

Admission is by season ticket or at the door \$10 for adults and \$5 for students.

The band, formed in 1955 in Newport, Ark., was one of the pioneers of rock and roll. Members traveled with Johnny Cash, Roy Orbison, Jerry Lee Lewis, Elvis Presley and many other legends.

Come and enjoy the singles “Red Headed Woman” and “We Wanna Boogie,” “Thunderbird,” “Ain’t Got a Thing” and many more recorded with Sun Records. The Pacers play the music of the ’50s the best because they helped invent it. 2005 marked their 50th year in the music business, so help them celebrate their 53rd.

MOVIE
PASSES

Watch for your
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Wednesday movie
listings
for 2
free passes.
(Passes must be used within 7 days.)

Pick up your passes at your:

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FREE PRESS

Ever thought about opening your heart and home to children in need in your area?

TFI Family Services, a leader in Foster Care is currently seeking individuals and families to care for foster children needing temporary or long term placements. We need caring individuals who enjoy working with children as part of our team. With this opportunity, you will explore new possibilities and learn to work with and assist children in need. Individuals must be 21 years old, single or two-parent family, with permanent residence and regular household income, and able to pass background and fingerprint checks.

Benefits include: 24 hour on call support, personal case manager assigned to your home, mileage reimbursement, medical card for children in care, paid day care for foster children, clothing allowance, free initial and on-going training, resource parent liability insurance and much more.

Daily Reimbursement Rates: \$80 per day (\$2400 per month) for therapeutic care. Specialized treatment up to \$45 per day. Up to \$37 per day for diversion care and up to \$23 per day for satellite/family care.


For more information about these levels of care and becoming a TFI resource/adoptive parent please contact TFI Family Services at (800) 279-9914 or visit us online at our new and improved

website at www.the-farm.org

TFI Family Services, Inc CPA License number – 0000766-009

VOTE!

TOMORROW
IS THE DAY TO
WRITE IN



Mike Baughn
FOR SHERIFF

Paid for by Baughn for Sheriff. Sharron Knox-treasurer

LOCAL TV LISTINGS
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WEEKDAYS NOVEMBER 4 - NOVEMBER 10

	6 AM	6:30	7 AM	7:30	8 AM	8:30	9 AM	9:30	10 AM	10:30	11 AM	11:30
KLBY/ABC (4) (6)	Good Morning Kansas		Good Morning America				The Martha Stewart Show		The View		Millionaire	News
KSNK/NBC (3) (8)	News Cont'd		Today						Live With Regis and Kelly		Today	
KBSL/CBS (12) (11)	News Cont'd		The Early Show				The 700 Club		The Price Is Right		The Young and the Restless	
K15CG (2)	Lions	Maya & Miguel	Curious George	Sid the Science	Super Why!	Clifford-Red	Dragon Tales	Caillou	Sesame Street		Martha Speaks	Word-World
ESPN (28)	Sports-Center	Varied	SportsCenter		SportsCenter		SportsCenter		SportsCenter		SportsCenter	
USA (37)	Varied Programs											
TBS (38)	Saved by Bell	Saved by Bell	Saved by Bell	Saved by Bell	Fresh Prince	Fresh Prince	Movie				Home Improve.	Home Improve.
WGN (39)	Changing	Believer Voice	Hillbilies	Hillbilies	Be-witched	Dream-Jeannie	Matlock		In the Heat of the Night		Nash Bridges	
TNT (40)	Angel		Charmed		Charmed		ER		Las Vegas		Las Vegas	
DSC (42)	Paid Program	Paid Program	Paid Program	Paid Program	How It's Made	How It's Made	Cash Cab	Cash Cab	Verminators		Varied Programs	
A&E (47)	Third Watch		Crossing Jordan		The Sopranos		American Justice		Cold Case Files		Cold Case Files	
HIST (48)	Varied Programs											
NICK (55)	OddPar-ents	OddPar-ents	Spon-geBob	Dora the Explorer	Backyar-digans	Go Diego	Wonder Pets	Dora the Explorer	Ni Hao, Kai-lan	Yo Gabba	Dora the Explorer	Varied
DISN (56)	The Wiggles	Higgly-town	Ein-steins	Mickey Mouse	Handy Manny	Tigger & Pooh	Imag. Movers	Charlie & Lola	Doodle-bops	Higgly-town	Movie	
FAM (58)	Sister, Sister	Sister, Sister	Sabrina-Witch	Sabrina-Witch	Step by Step	Living the Life	The 700 Club		Gilmore Girls		Full House	Full House
HALL (60)	Paid Program	Paid Program	The Waltons		The Waltons		Little House on the Prairie		Little House on the Prairie		Touched by an Angel	

WEEKDAYS NOVEMBER 4 - NOVEMBER 10

	12 PM	12:30	1 PM	1:30	2 PM	2:30	3 PM	3:30	4 PM	4:30	5 PM	5:30
KLBY/ABC 4 (6)	All My Children		One Life to Live		General Hospital		Rachael Ray		News	Access H'wood	News	ABC Wild News
KSNK/NBC 8 (8)	News		Days of our Lives		The Ellen DeGeneres Show		The Doctors		Jeopardy!	Deal or No Deal	News	NBC News
KBSL/CBS 12 (11)	News	Bold, Beautiful	As the World Turns		Guiding Light		Dr. Phil		Oprah Winfrey		News	Evening News
K15CG (2)	Reading Rainbow	Barney-Friends	Varied Programs			Lions	Arthur	WordGirl	Fetch! Ruff	Cyber-chase	Maya & Miguel	Busi-ness
ESPN (28)	SportsCenter		Sports-Center	Varied	Outside-Lines	Football Live	NFL Live	Rome-Burning	Around the Horn	Interrup-tion	SportsCenter	
USA (37)	Movie		Varied Programs		Law & Order: Criminal Intent		Law & Order: Criminal Intent		NCIS		NCIS	
TBS (38)	Home Improve.	Home Improve.	Just Shoot	Just Shoot	Yes, Dear	Yes, Dear	King of Queens	King of Queens	Ray-mond	Ray-mond	Ray-mond	Friends
WGN (39)	WGN Midday News		Homicide: Life on the Street		Cosby Show	Cosby Show	Becker	Funnist Pets	America's Funniest Home Videos		7th Heaven	
TNT (40)	Without a Trace		Law & Order		Law & Order		Charmed		Charmed		Law & Order	
DSC (42)	The FBI Files		A Haunting		A Haunting		Varied Programs		Cash Cab	Cash Cab	Cash Cab	Cash Cab
A&E (47)	CSI: Miami		Crossing Jordan		The Sopranos		American Justice		Cold Case Files		Cold Case Files	
HIST (48)	Modern Marvels		Varied Programs									
NICK (55)	Backyardigans	Varied	SpongeBob	OddParents	Varied Programs				SpongeBob	SpongeBob	Drake & Josh	Drake & Josh
DISN (56)	Movie Cont'd	Zack & Cody	Zack & Cody	Zack & Cody	Varied Programs							
FAM (58)	Sister, Sister	Sister, Sister	Sabrina-Witch	Sabrina-Witch	Full House	Full House	What I Like	What I Like	Gilmore Girls		My Wife and Kids	My Wife and Kids
HALL (60)	7th Heaven		7th Heaven		Little House on the Prairie		Cheers	Cheers	M*A*S*H	M*A*S*H	M*A*S*H	M*A*S*H

TUESDAY NOVEMBER 4

	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30	
KLBY/ABC 4 (6)	News (N) (CC)	Entertainment	ABC News: Vote 2008 Voting results. (CC)						News (N) (CC)	ABC News: Vote 2008 Voting results. (CC)			
KSNK/NBC 3 (8)	2008 Election Night Voting results. (Live) (CC)												
KBSL/CBS 12 (11)	Campaign '08: Election Night (Left in Progress) (Live) (CC)								News (CC)	Campaign '08: Election Night (Live) (CC)			
K15CG (2)	The NewsHour With Jim Lehrer (N)		Doctors on Call	Second- Health	The Newshour Election Night Coverage 2008 Election Day				Charlie Rose (N) (CC)				
ESPN (28)	E:60 (N) (CC)		NFL Live (Live)	NBA Coast-to-Coast NBA highlights and analysis. (Live)		2008 World Series of Poker Las Vegas.		SportsCenter (Live) (CC)		NFL Live (N) (CC)	Fast- break		
USA (37)	House Role Model (CC)		House Babies & Bathwater (CC)		House Fidelity (CC)		House Poison (CC)		House Cursed (CC)		Law & Order: Criminal Intent		
TBS (38)	Seinfeld (CC)	Seinfeld (CC)	Family Guy (CC)	Family Guy (CC)	Family Guy (CC)	Family Guy (CC)	The Office	The Office	Frank TV (N)	Sex and the City	Sex and the City	Seinfeld (CC)	
WGN (39)	7th Heaven Say a Little Prayer for Me		Nash Bridges Internal Affairs (CC)		Nash Bridges Till Death Do Us Part		WGN News at Nine (N) (CC)		WGN News Election Special		The Bob and Tom Show		
TNT (40)	Law & Order Talking Points		Law & Order Corner Office (CC) (DVS)		Law & Order Deadlock		Law & Order Good Faith (CC) (DVS)		Raising the Bar Shop Till You Drop		Cold Case Thrill Kill (CC)		
DSC (42)	How It's Made		Dirty Jobs Leech Trapper Leeches.		Dirty Jobs Former presidents. (N)		Dirty Jobs Tar Rigger (CC)		Dirty Jobs Special Effects Artist (CC)		Dirty Jobs Leech Trapper Leeches.		
A&E (47)	CSI: Miami Tinder Box (CC)		The First 48 Woman shot in her home.		The First 48 (CC)		The Rookies	The Rookies	Jacked: Theft	Jacked: Theft	The First 48 Woman shot in her home.		
HIST (48)	Modern Marvels Extreme Aircraft II		Gangland Blood in the Streets (CC)		Gangland Biker Wars The Outlaws.		Gangland Washington, D.C.		Shootout! High- stakes bank robbery.		Gangland Blood in the Streets (CC)		
NICK (55)	U-Pick (CC)	U-Pick (CC)	U-Pick (CC)	U-Pick (CC)	Home Improve.	Home improve.	George Lopez	George Lopez	Family Matters	Family Matters	Home Improve.	Home Improve.	
DISN (56)	Zack & Cody	Hannah Montana	Movie: My Date With the President's Daughter (1998)			Wizards- Place		Life With Derek		Zack & Cody	Hannah Montana	That's- Raven	Cory in House
FAM (58)	That '70s Show		Lincoln Heights Price You Pay (CC)		My Wife and Kids		My Wife and Kids		America's Funniest Home Videos (CC)		The 700 Club (CC)		Lincoln Heights Price You Pay (CC)
HALL (60)	Walker, Texas Ranger (CC)		Walker, Texas Ranger (CC)		Movie: Back to You and Me (2005, Drama) Lisa Hartman Black. (CC)				Murder, She Wrote A Christmas Secret		Murder, She Wrote (CC)		

WEDNESDAY NOVEMBER 5

	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
KLBY/ABC 4 (6)	News (N) (CC)	Entertainment	Dancing With the Stars (Live) (CC)		Private Practice Let It Go (N) (CC)		Dirty Sexy Money The Verdict (N) (CC)		News (N) (CC)	Nightline (N) (CC)	Jimmy Kimmel Live (N) (CC)	
KSNK/NBC 3 (8)	News (N)	Wheel of Fortune	Knight Rider Knight of the Living Dead		Life Jackpot (N) (CC)		Law & Order Rumble (N) (CC)		News (N)	The Tonight Show With Jay Leno (CC)		Late Night
KBSL/CBS 12 (11)	News (N) (CC)	Inside Edition	Old Christine	Gary Unnarr	Criminal Minds The Instincts (N) (CC)		CSI: NY Enough (N) (CC)		News (N) (CC)	Late Show With David Letterman		Late Late
K15CG (2)	The NewsHour With Jim Lehrer (N)		Secrets of the Dead (CC) (DVS)		Medal of Honor (N) (CC)			Once to Every	World News	As Time Goes By	Charlie Rose (N) (CC)	
ESPN (28)	Sports-Center	NBA	NBA Basketball: Chicago Bulls at Cleveland Cavaliers. Quicken Loans Arena. (Live) (CC)						NBA Basketball: Denver Nuggets at Golden State Warriors. Oracle Arena. (Live) (CC)			
USA (37)	NCIS See No Evil (CC)		NCIS The Meat Puzzle (CC)		NCIS Witness (CC)		NCIS Caught on Tape (CC)		Law & Order: Criminal Intent		Law & Order: Criminal Intent	
TBS (38)	Seinfeld (CC)	Seinfeld (CC)	House of Payne	House of Payne	House of Payne	House of Payne	House of Payne	House of Payne	Seinfeld (CC)	Sex and the City	Sex and the City	Movie: The City
WGN (39)	7th Heaven Hoop Dreams (CC)		Legend of the Seeker Prophecy		Legend of the Seeker Destiny (CC)		WGN News at Nine (N) (CC)		Scrubs (CC)	Scrubs (CC)	The Bob and Tom Show	
TNT (40)	Law & Order Patient Zero (CC) (DVS)		Movie: Lethal Weapon 4 ★★ (1998) Detectives Riggs and Murtaugh battle Chinese mercenaries. (CC) (DVS)				Movie: Lethal Weapon 4 ★★ (1998) Detectives Riggs and Murtaugh battle Chinese mercenaries. (CC) (DVS)		Movie: Lethal Weapon 4 ★★ (1998) Detectives Riggs and Murtaugh battle Chinese mercenaries. (CC) (DVS)			
DSC (42)	How It's Made	How It's Made	Time Warp (N)	Time Warp (N)	MythBusters Coffin Punch (N) (CC)		Prototype Thist! All-terrain vehicle. (N)		Futureweapons Guns (CC)		Time Warp	Time Warp
A&E (47)	CSI: Miami Freaks & Tweaks (CC)		Dog the Bounty Hunter (CC)		Bounty Hunter	Bounty Hunter	Parking Wars (N)	Parking Wars (N)	Parking Wars	Parking Wars	Dog the Bounty Hunter (CC)	
HIST (48)	Modern Marvels Presidential Movers		MonsterQuest Monster Spiders		MonsterQuest Real Dragons (N) (CC)		UFO Hunters UFO Emergencies (N) (CC)		UFO Files Alien Encounters (CC)		MonsterQuest Monster Spiders	
NICK (55)	Zoe y 101 (CC)	iCarly (CC)	Spon-geBob	Spon-geBob	Home Improve.	Home Improve.	George Lopez	George Lopez	Family Matters	Family Matters	Home Improve.	Home Improve.
DISN (56)	Zack & Cody	Hannah Montana	Movie: A Goofy Movie ★★ (1995) Voices of Bill Farmer.			Wizards-Place	Wizards-Place	Life With Derek	Zack & Cody	Hannah Montana	That's-Raven	Cory in House
FAM (58)	That 70s Show		America's Funniest Home Videos (CC)		America's Funniest Home Videos (CC)		America's Funniest Home Videos (CC)		The 700 Club (CC)		Whose Line?	Whose Line?
HALL (60)	Walker, Texas Ranger Flashback		Walker, Texas Ranger Flashback		Movie: Daniel's Daughter (2008, Drama) Laura Leighton, Sebastian Spence.				Murder, She Wrote Final Curtain (CC)		Murder, She Wrote Double Jeopardy	