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 Power Carts for Scouts and Field Operations (September
 2012) (Gue): Nov, 64
 Solar Power (Oct 2011) (Bruninga): Jul, 51

The Care and Feeding of a 3-500ZG Amplifier (Oct 2011)
 (Miccolis and Perry and Rankin): Jan, 56
 The Uncooperative Tree (September 2012), Or Properly
 Applying Wire Rope Clips (Carl and Kennedy): Nov, 66
 Using a Noise Bridge (Mar 2011) (Wallach): Sep, 53

The Doctor is IN

Jan, 58; Feb, 60; Mar, 57; Apr, 58, *Feedback: Jun, 35;*
 May, 54; Jun, 57; Jul, 54; Aug, 54; Sep, 54; Oct, 57;
 Nov, 67; Dec, 46

The World Above 50 MHz (Jones)

144 MHz "Rare Midwest Tropo Opening to Colorado and
 Wyoming (Jones): Aug, 94
 222 MHz Standings: May, 90
 432, 902, 1296 MHz and Up: Sep, 90
 Draconids Meteor "Outburst": Feb, 96
 EME: Jul, 93; Sep, 90; Oct, 95
 F2 Forward Scatter: Apr, 88
 FFMA Rare Grid: DN20; 144 MHz: May, 90
 Gene Zimmerman, W3ZZ (Silent Key): Sep, 88
 Has the Internet "Killed" the VHF Radio Star?: Jun, 90
 How the Grinch Stole the Winter Es Season (Almost!):
 Mar, 92
 New Digital TV DX Record (Andrews): May, 88
 NJØW Grid Expedition Creates Excitement on a Slow
 Spring Day: Jul, 91
 OH1VR/VP9 Makes First Bermuda to Finland 50 MHz
 Contacts (Sisatto): Aug, 92
 Six Meter Cycle 24 F2 DXpedition Suggestions: Nov, 95
 Solar Cycle 24 — One Peak or Two?: Dec, 92
 T6MO Afghanistan Update: Aug, 93
 The Brendan Trophy: Dec, 92
 Thomas "Ray" Naughton, VK3ATN, Silent Key: Dec, 92
 Transequatorial VHF Propagation: Jan, 89
 Two Notable 50+ Operators Move to a High Band (Paul
 Lieb, KH6HME and Stephen Powlishen, K1FO, Silent
 Keys): Oct, 93
 Unusual 144 MHz APRS Report: Feb, 96
 When Will 6 Meters Open for Worldwide DX? (Jones):
 Feb, 94

Here and There

6 Meter First List and VHF/UHF Standings managed by
 Sean Kutzko, KX9X; Gene Zimmerman, W3ZZ, Silent
 Key: Aug, 94
 British Virgin Islands, VP2V: Jun, 92
 Central States VHF Society Conference; Quadrantids
 Meteor Shower: Jan, 91
 CY9 on 6 Meters, Six Club: May, 90
 Karsten, DL2LAH, part of group operating 144 MHz EME
 from Thailand in April: Mar, 94
 Miscellaneous: Sep, 90; Oct, 95; Dec, 93
 PTØS plans 6 meter operation: Nov, 97
 Solar Cycle 24: Jul, 93

On the Bands

50 MHz; T32C; Aurora; Es; 144 MHz; Tropo: Jan, 90
 Trans-Con; Sporadic E; Ex to F2; Tropo: Feb, 94
 50 MHz; 144 MHz; 432 MHz, 1296 MHz: Mar, 93

50 MHz; HKØNA Malpelo Island on 6 Meters; Propagation at Frequencies Above the Basic MUF; 144 MHz; Tropo; Es: Apr, 89
 50 MHz; 144 MHz; 432 MHz; 1296 MHz: Jun, 91
 50 MHz; 144 MHz; 222 MHz; 432 MHz; 902, 1296, 2304 MHz and Up: Jul, 92
 50 MHz; Wake Island; 6 meters open to Europe: Aug, 93
 5 MHz; TM6O Afghanistan Update; 144 MHz Rare Midwest tropo to North Dakota and Contest 2 Meter Es: Sep, 89
 50 MHz Es to Bahrain; 144 MHz Tropo, Aurora and E-Skip!; 432 MHz: Oct, 94
 50 MHz Es takes a vacation, then shows up August 22; EME; 144 MHz Tropo and Perseids; 222 and 432 MHz; 1296 MHz and Up: Nov, 97
 50 MHz Es and TEP Openings Are Magic!; 144 MHz Labor Day and Maritime Tropo; 222 and 432 MHz; 1296 MH and Up; EME: Dec, 93

This Just In

2012 Annual ARRL Board Meeting photo (Kramer): Mar, 12
 2012 Hamvention (Kleinman): Jul, 12
 Amateur Radio Week in Oklahoma (Colston): Aug, 13
 Amateurs Become Public Service Partners in Oxford County (Gould): Dec, 13
 ARRL President Meets NWS Deputy Director (Craigie): May, 13
 At the WRC-12 Final Plenary (Kleinman): Apr, 13
 Club Activates North Carolina Lighthouse (Kuebert): Aug, 13
 D-STAR Group Invades Mike Baxter's Office/Hamshack (Clark): May, 13
 Fall Hike Provides Opportunity to Spread the Word (Watson): Feb, 13
 Father and son "complete England" in Summits on the Air (Read): Oct, 13
 Greg Walden Meets a Vice President (Glynis Cochlin, W7GAC) (Nicholson): Jun, 12
 Hams Jam in Roswell, Georgia (Tramontanis): Jan, 12
 Head to the ARRL National Convention October 12-14 (Kleinman): Oct, 13
 Helping Feed Those in Need (Portage County ARS) (Aylward): Feb, 13
 Homebrewing Two "Classics" (Fell): Nov, 13
 Honoring the Creator of Fldigi, David H. Freese, Jr, W1HKJ: Nov, 13
 Morse Code as a Fashion Statement (Salmon): Dec, 13
 Nothin' Could be Finer Than a Successful VE Session in Columbia (Livingston): Feb, 12
 Pacificon 2011 (Ronan): Jan, 13
 SEANET VE Session (Telenius-Lowe): Mar, 13
 SEEDing Ham Radio in South Carolina (Boehner): Jan, 13
 Space Day 2012 (Klein): Jul, 13
 Take Precautions, and They Will Survive (Norman): Mar, 13
 The ARRL International Humanitarian Award to Andrey Fedorov, RW3AH/KL1A (Fedorov): Sep, 12
 The Cup of Excellence (Doug DeMaw, W1FB, Technical Excellence Award to Jim Ahlstrom, N1ADR) (Ford): Dec, 13

Tiny Niue now has its own call sign block (Kleinman): Oct, 13
 Tough Duty (NP3PR) (Drowne): Apr, 13
 Transceiver Transfer (Ahrens): Aug, 13
 Virginia Club Supports Marine Corps Historic Half (Lee): Sep, 13

In Brief

ARRL Board of Directors Elections November 18; ARRL Ad Hoc Committee looking for recommendation for band plans 902 MHz and .5 GHz; 96 electrical engineering students pass Technician exam; amateurs provide service during October snowstorm; New ISS crew members include Dan Burbank, KC5ZSX; FCC Order terminating hundreds of proceedings, including 6 that public and ARRL asked not to be; Nationwide Emergency Alert system test in November; ARRL volunteer tour guide David Kaplan, WA1OUI, to administer ARRL A-1 Operator Club; Sixth Annual ARRL On-Line Auction; Kirk Pickering, K4RO, named Editor of National Contest Journal (NCJ); President Obama nominated two FCC Commissioners, Jessica Rosenworcel and Ajit Varadaraj Pai; FCC Second Report and Order in BPL; FCC issues Notice of Apparent Liability for Forfeiture to FL man; team of CA hams and other launched balloon that reached over 136,000 feet, a new altitude record; Second Annual ARRL Video Contest entries due by February 15; Joe Ostrowski, K15FJ, October QST Cover Plaque winner (Kleinman): Jan, 12
 Last Man Standing ABC-TV show; FCC commissioners agree to allocate spectrum and adopt service and technical rules for utilization of implanted medical devices; OSCAR-1 50th Anniversary; new Canadian prefixes during December for 75th anniversary of Canadian Broadcasting Corp and Radio Canada; W1RFI speaks at HomeGrid Forum policy meeting, ITU-t G.hn BPL; FASTRAC-1 Satellite (FO-69; Allen Baker, KG4JJH, November QST Cover Plaque winner (Kleinman): Feb, 12
 ARRL Board of Directors 2012 Annual Meeting January 13-14, 2012; IBEC - Access BPL — closing down; ARRL Diamond DXCC Challenge; Yaesu splits from Motorola; FCC grants Phil Williams, KA1GMN, a Special Temporary Authority to conduct Spread Spectrum experiments; ARISSat-1 satellite re-entered Earth's atmosphere January 4; ARRL Public Relations Do-It-Yourself (DIY) promotion; ARRL asking for feedback to assist in crafting proposed 5 MHz band plan; December QST Cover Plaque Award to Ashraf Abuelhaija and Klaus Solbach, DK3BA (Kleinman): Mar, 12
 Amateur Radio Service received new band at WRC-12; new amateur service secondary allocation on WRC-15 agenda; RAC Ontario section will split into four separate sections; 2012 Field Day packages available; effective date for new FCC rules expanding MedRadio Service secondary allocation in parts of 70 cm band Feb 27; new 60 m rules went into effect March 5; eight student-built MicroSats and CubeSats launched Feb 13; first CQ award to be supported by ARRL's Logbook of the World will be CQ WPX; Republic of South Sudan assigned prefix Z8; FCC denied waiver request from

- Anchorage VEC; January QST Cover Plaque Award to Ralph Taggart, WB8DQT (Kleinman): Apr, 12
- RACES and SKYWARN assisted in the aftermath of two storms in Midwest and Mid-South; new federal law includes provision for study of Amateur Radio in Emergencies and disaster relief; changes to DXCC program; ARRL Technical Editor Joel Hallas, W1ZR, among Dayton Hamvention award winners; ARRL UHF/Microwave Band Plan Committee looking for comments on draft band plan for 9 cm band; FCC reduced fine against Florida man; movie Journey 2: The Mysterious Island includes references to ham radio and Morse code; three operations, 2012 VKØTH and AX/VKØTH, December 2011 6OØM, December 2011-January 2012 9U3TMM, approved for DXCC; Malyj Vysotskij Island, R1M, deleted from EXCC Entities List as of February 17, 2012; cont (Kleinman): May, Former RAC President Earle Smith, VE6NM, Silent Key; Phil Salas, AD5X, winner February QST Cover Plaque award (Kleinman): May, 12
- Digital QST and expanded archives; NTIA has no objection to broader range of data emission by amateurs on the five 5 MHz frequencies; North Texas area ARES and RACES acted April 3 Tornados; Fred Maia, W5YI, Silent Key; FAA deploying Common Air Route Surveillance Radar that has implications for use of 1240-1300 MHz by amateurs; 2012 first quarter increase in Amateur exam session; FCC soliciting comments to Congressional directive to study Amateur Radio's role in emergency, disaster communications; ARRL solicited comments on draft band plan for 33 cm; World Amateur Radio Day, IARU 87th anniversary, April 18; FCC soliciting comments to Congressional directive to study Amateur Radio's role in emergency, disaster communications; ARRL solicited comments on draft band plan for 33 cm; World Amateur Radio Day, IARU 87th anniversary, April 18; March 2012 QST Cover Plaque Award to Eric P. Nichols, KL7AJ (Kleinman): Jun, 12
- ARRL provided FCC with comments that document Amateur Radio's emergency communications capabilities and need to communicate free from the burden of CC&Rs; Ohio now has strong PRB-1 law; ARRL President Craigie, N2KN, invites ARRL members for suggestions for Centennial celebration; digital QST; ARRL EXPO at Dayton Hamvention; two new FCC commissioners; ARRL UHF-Microwave Band Plan Committee released comments for 13 cm and 902-928 MHz; Heathkit Educational Services shuts doors (Kleinman): Jul, 12
- President Obama to nominate Mignon Clyburn for new 5-year term as FCC Commissioner; FCC decided to expand Part 95; new Amateur Extra class question pool effective July 1; ARRL seeking candidates for Director and Vice Director; 31st ARRL and TAPR Digital Conference Sep 21-23 in Atlanta, GA; ARRL Board of Directors unanimously voted to approve 9 cm band plan; Steve Mendelsohn, W2ML, Silent Key; Gene Zimmerman, W3ZZ, Silent Key; May 2012 QST Cover Plaque Award to Martin Huyett, KØBXB: Aug, 12
- ARRL Board of Directors met in Windsor, CT, July 20-21; FCC denied AZ man's petition for rulemaking regarding PRB-1; Three hams arrive at the International Space Station; IL has state level PRB-1 law; ARRL Executive Committee awarded Education & Technology Program grants to 11 schools; Additional tools and reports added to Diamond DXCC Award; Richard L. Baldwin, W1RU, Silent Key; M. Walter Maxwell, Silent Key; ARRL webinar on 2012 Hurricane season and Amateur Radio Response; ARRL launched integration of Logbook of The World with CQ Magazine's Worked All Prefixes Award; Amateur Radio Emergency Communications course reconfigured; June QST Cover Plaque Award to Dennis Johnson, KFØQR (Kleinman): Sep, 12
- Engineers use Morse code J P L imprinted on Mars Rover Curiosity's wheels to determine how far it roams; James Millsap, WB4NWS appointed SE Division Vice Director; Ontario section split into 4 parts; International Lighthouse/Lightship Weekend in August; NOAA updates 2012 Atlantic hurricane forecast; FCC denied Petition for Reconsideration regarding reassignment of call sign previously held by a deceased CA amateur; FCC denied Petition for Reconsideration to create nationwide emergency calling frequency; National Conference of Volunteer Examiner Coordinators held annual meeting via teleconference in July; FCC increased cost of 10 year vanity call sign to \$15 effective September 4, 2012; Ivica Dacic, YU1YU, elected Prime Minister of Serbia; special events call signs 2O12L (London) and 2O12W (Wales) for Olympics Games, will also be active during Paralympic Games; Heathkit Educational Systems declared bankruptcy; Carl Luetzelschwab, K9LA, July QST Cover Plaque Award winner (Kleinman): Oct, 12
- ARRL Book Editor Becky Schoenfeld, W1BXY, promoted to QST Managing Editor; surprise jump in solar activity; ARRL announced plans to hold National Centennial Convention in Hartford, CT July 17-20, 2014; four new Canadian sections; 2011 Hiram Percy Maxim Award to Derek Brown, W4DTB; ARRL Development Office is working on map of Diamond Terrace bricks; ARRL online store improvements; interference complaints; International Amateur Radio Union expressed public support for a .radio internet domain name; Pittsburgh, PA, power line noise solved; still time to submit answers to latest poll question on QST QuickStats page (Ford): Nov, 12
- NASA Astronaut Lee Morin, KF5DDB, ARRL's guest at 2012 National Convention at Pacificon; IARU Secretary Rod Stafford, W6ROD, presented a look to the 2015 World Radiocommunication Conference; 12 newly elected or appointed Section Managers attend workshop; new transceiver for 40 m at W1AW; Team USA scored 13 medals ARDF World Championships; Radio Club of America's Barry Goldwater Amateur Radio Award to Bill Tynan, W3XO; Allen Pitts, W1AGP attended Radio Television Digital News Association's Convention; DXCC Desk approved 12 operations for DXCC credit; James Klitzing, W6PQL, October 2012 Cover Plaque Award; Field and Regulatory Correspondent Chuck Skolaut, KØBOG, handled many complaints; Regulatory Information Manager Dan Henderson, N1ND, attended SEDCO, New Editor S. Khrystyne Keane, K1SFA, attended North Short Radio

Assoc meeting; COO Harold Kramer, WJ1B, attended Boston Amateur Radio Club meeting; Education Services Manager Debra Johnson, K1DMJ, attended Washington State Convention (Ford): Dec, 12

Inside HQ (Kramer)

About the Digital Edition: Jun, 13
 Advertising Sales: Oct, 13
 Changes are Coming to QST — Some FAQs about the upcoming digital edition: Mar, 13
 Come On Over!: Jul, 13
 DIY: Jan, 13
 ARRL Educational Resources Abound: May, 13
 How I Earned 5B DXCC: Apr, 13
 Joel Kleinman: An Appreciation: Nov, 13
 Submitting Paper QSL Cards: Oct, 13
 Proudly Serving the Public: Sep, 13
 The Amateur Radio Public Service Handbook Debuts: Dec, 13
 The ARRL Technical Information Service: Feb, 13

Media Hits (Pitts)

Do It Yourself (DIY); Monroe Star News (LA); North Texas E-news; The Log Newspaper (CA); Grand Junction Sentinel; Jones County News (GA); Frontiersman (AK); KGO Radio (CA); Scouts' Jamboree On the Air, many hits; FCC BPL issue, TV Technology, Radio World, CFC Communicator: Jan, 12
 New England snows —New Hampshire Union Leader, NJ.com, Patch.com, Examiner.com, Alaska Dispatch; New York Daily News; New York Times; New River Valley Magazine; EDN Magazine; Fox TV News Network; Talking Points Media; Slashdot.com; Engadget.com; Discovery News; Lewiston Sun Journal (ID); WAGA-TV Atlanta: Feb, 12
 Rochester Democrat and Chronicle; Hawaii News Now; Wisconsin Rapids Tribune; Tri-City Herald (WA); Jacksonville Daily News (FL); Daily Commercial (FL); Chicago Tribune; New York Times; 911.com; KSL.com; Oregonian; The Dunkin Daily Democrat (MO); New Times (CA); Green Valley News (AZ); NY Times blog; Popular Science; KSL-TV (UT); MSNCB: Mar, 12
 Muskegon County ARES 2 stories, WZZM TV-13; WMUK Radio; The Survival Mom; DEM News - Florida Division of Emergency Management; ABC Newsletter; BlueSky Executive Aviation News; Twitter; Ste Genevieve Community Access Television (MO); The Examiner (CT); Newsday (NY); EDN.com; HDTV Magazine; The Batesville Daily (AR); YouTube.com; Dayton PR booth: Apr, 12
 WLOS-TV (NC); Calvin 1 — Mashable, ADNet, Space.com; Katy Times (TX); KXII-TV (TX); KYTV-3 (Springfield, MO); Moultrie Observer (GA); WDBJ-TV (Roanoke, VA); The Newport Daily News (RI); Indianapolis Southsider Voice (MN); Boston.com; Patch.com; WickedLocal.com; Boston Globe; Last Man Standing TV Show; HamRadioNow.TV; Radio World; PR-101: May, 12
 FCC CC&R inquiry; March tornados - WLKY-TV (KY), WSFR-FM, Shreveport Times; SKYWARN - The Chattanooga and WTVC (Chattanooga, TN), WTOL (Toledo), WRCB (Cleveland), Press-Enterprise

(Riverside, CA); personal thank yous to ARES personnel; Schools — University Daily Kansan, Madison County Journal, Patch.com, U-T San Diego, KPBS (San Diego), Southwest News-Herald (IL), Cape Gazette; Amateur Radio growth in US - Newsday, Fayetteville Observer (NC): Jun, 12

Huffington Post; New York Daily News; Chicago Tribune; Kansas.com; KAKE-TV; The State Journal-Register (IL); Washington Post; BBC; Los Angeles Times; PC Magazine; JP Magazine; Pontiac Daily Leader (IL); Boy Scouts; msnbc.com; Bend Bulletin (OR); Washington Examiner (DC); NECN-TV (MA); Lewiston Morning Tribune (ME) Guitar World magazine; National Association of Broadcasters convention: Jul, 12
 Unusual: News-Enterprise (KY), Touch (TV episode), China Daily; Promotional: Oklahoma Living, ocala.com, Wilmington News Journal (OH); DIY Related WINK-TV news, Maker Faire 2012, Santa Barbara Edhat (CA), Norwich Bulletin; Dayton Daily News; New York Time; Steve Mendelsohn, Silent Key: Aug, 12
 Record month for media hits; special events to Amelia Earhart; Field Day; www.arrl.org/media-hits-d: Sep, 12
 This Just In, Media Hits: Field Day: Hendersonville Times (NC), Chapel Hill News, Gulf Coast News Today (AL); ShorewoodPatch.com; Boomercafe.com; WVOX The Bronx Report; Orange County Maker Faire (CA); Anniston Star (AL); Lahaina News (HI); Twin Falls Times-News (ID); Short News Today (NJ); Sonoma Valley Sun (CA); Pueblo Chieftain (CO); Best Times (KS); www.arrl.org/media-hits: Oct, 12
 Public Service Communications: NPR, WPBF-TV (FL) and OK to MO stations, TechNews World, Catskill Daily Mail (NY), DIVIDS (US Pacific Command - Third Army/US Army Center); Technical: The Amp Hour, KBMT and KDFM (Beaumont, TX), lack of technical consultants for FCC Commissioners; Feel Good: KTOK radio, Quincy Herald-Whig (IL), KTXL/FOX40 (Sacramento, CA), The Best Times (KS), NPR WABE (GA), Commercial Appeal (TN), National Science Teachers Association: Nov, 12
 www.arrl.org/pr-courses; ConnitcutHistory.org; Stanford Magazine; The Weirs Times (NH); http://evanston.patch.com; EvanstonNow.com; Desert Dispatch (CA); Wyoming Tribune Eagle; IT News Online.com; PhysicsCentral.com; www.arrl.org/media-hits: Dec, 12

Up Front

A Simple and Effective 10 Meter Radiator (Reisenauer): Mar, 20
 An Aerial Aerial (Walker): Nov, 20
 An they're on sale! (DX Containers sign) (Lunday): Oct, 20
 And it's good for you! (Field Day brand Refried Beans) (Koch): Jun, 20
 Boy Scout Radio Field Day, December 15, 1923 - First Field Day? (Kleinman): Jun, 20
 By the Time I Got to Field Day... (Starkenburger): Sep, 20
 Card collector (Olender): Feb, 20
 Collins Radio and the B-29 Superfortress (Blocksome): Aug, 20
 Commemorating Marconi's Atlantic Triumph of 1901 (Gerpott): Jan, 20
 Crutchzilla (Anderson): Oct, 20

DIY to the Max (Rooney): Jan, 20
 EME for kids (with a little help from a friend) (Cohen): Jun, 20
 Emergency Preparedness Pays Dividends in Colorado (Johnston): Sep, 20
 Enter the 7th Annual Photo Contest: Apr, 20
 Ham Holiday in Oklahoma City (Ford): Dec, 20
 Head to Field Day June 23-24 (Kleinman): Jun, 20
 Household Lettering (Rudy): May, 20
 It's winter! (Skoch): Mar, 20
 K2TQN in Castline: Nov, 20
 Lights show (Hex-Beam at KL2R) (Ledlow Jr): Feb, 20
 Looking Ahead to Hamvention 2012 (Ford): May, 20
 Navy MARS Day Out (Zuck): Apr, 20
 Portable/Emergency 2 Meter Antenna System (Lesley): Feb, 20
 Put a Ribbon on It! (Stieber): Dec, 20
 RFI Problem Solved (Clark): Oct, 20
 Satellites on the Beach (Silver): Dec, 20
 Seeking Shelter from the Sunshine (Bell): Dec, 20
 Shuttle visit (Lacey): Mar, 20
 Somewhere a golf cart is missing some wheels (Moore): Mar, 20
 SSTV via ARISSat-1 (Winder): Aug, 20
 Stealth Vine Antenna (Reisenauer): Sep, 20
 Three Watts in a Coffee Can (Dorner): May, 20
 Unusual perspective (tower) (Davis): Jan, 20
 Vacation Station (Parr): Oct, 20
 Washington state aurora (Frause): Sep, 20
 Young hams and future hams meet KF5BOC (Ford): May, 20

ARRL VEC Volunteer Examiner Honor Roll

Mar, 103; Jun, 86; Sep, 35; Dec, 58

Vintage Radio (Dilks)

An Operator to Remember (Harold Cottam of the Carpathia): Apr, 93
 AWA 2012 World Convention: Aug, 98
 AWA Wrap-Up: Nov, 99
 AWA's Founding Members: Jan, 94
 Collins 75A-4: Jul, 98
 Collins Radio 30FX: May, 93
 Historic Wireless Station (WSC): Sep, 93
 Maine: Wireless North Pole Presentation: Jun, 97
 Making AM a Bit Better: Aug, 97
 McMurdo Silver's Super Gainer: Oct, 97
 National Silent Key Archive: Jun, 96
 Pauline Raser, W2QCC (Silent Key): Mar, 98
 Recapturing the Thrill (Ameco AC-1): Dec, 97
 The Society of Wireless Pioneers: Jun, 96
 Wireless Pioneer W2ZI: Part 2: Feb, 99

W1AW Schedule

Jan, 99; Apr, 76; Jul, 101; Oct, 100