



Long Path



Greetings Fellow DXer's

I just received a e-mail from **K8ZZU**, saying the reason he was not at the April meeting was he'd just had surgery on a detached retina. Let's all wish Jim well. Hope it is much better by Dayton.

We had a small turnout this month, but it was good to see everyone none the less. For those of you that were not present, you missed a good video as those present will attest. Our feature was the Lost Island's video which took place in the Russian Arctic. This crew was gutsy to say the least. I did notice however there was very little CW, but with temperatures well below zero who would want to take the gloves off long enough?

Well as you know Dayton Hamvention is the weekend of May 14th, so please remember our May meeting will be on May 21st. Hope to see many of you at Dayton and drive safe. Let us know at the May meeting what type of toys you bought.

K8SIX



BPL Issues

The Stu **ROCKAFELLOW ARS** will be putting on a presentation May 17, 2004 at 7:30 pm at the Plymouth City Hall, 201 South Main Street, Plymouth Michigan. The presentation will be by Murray Wallace, **KE8HR** the ARRL Technical Coordinator for the state of Michigan. He will be talking about the BPL issue. It will be a great night of fellowship with other hams and as always we have coffee and donuts. Please come early to get a good seat. Talk in on 145.170 or 146.920 FM. Hope to see you there.

W8RIF



April Minutes

Meeting called to order at 8:00 p.m. by President **K8SIX**. Thirteen members and guests present. Treasurer **N8CQA**, reports a balance of \$1,172.07 (There is no truth to the rumor that the club treasury is funding Ken, **W8LU**'s \$25.00 haircuts!)

K8CC, reminds members of the Michigan QSO Party tomorrow, April 17th. Sponsored by the Mad River Radio Club your participation will be appreciated. Get on for a little or a lot.

Discussion of program possibilities: **W8LU** has been in touch with **K3ZO**, but he has not confirmed a May visit, and the prospects do not sound promising. Perhaps some of our members who

are IOTA aficionados would present a program at a future meeting? **VE6JO** has a Powerpoint DVD available about his **3C2MV** DX-pedition.

Tonight's program is a video entitled Lost Islands of the Arctic and features a very hearty and rugged group of Russian Hams who traveled north into the frozen Kara Sea in April 2001 to activate several IOTA Islands. Team members included **R3CA**, **RAØBM**,

SEM DXA CLUB OFFICERS

President: Al Bailey, **K8SIX**

Vice-president: John Millet, **K8JM**

Treasurer: Buck Switzer, **N8CQA**

Secretary: Stan Arnett, **AC8W**

Director: Ted Pauck, **K8NA**

Web Site Editor: Ken Schang, **W8LU**

DXCC Checker: Bill Jones, **N8KF**

DXCC Checker: S.Arnett, **AC8W**

VUCC Checker: Al Bailey, **K8SIX**

VUCC Checker: S. Fleming, **K8KHZ**

CQ Checker: Mike Rudzki, **N8MR**

CQ Checker: Al Bailey, **K8SIX**

Program Chairman: Vacant

LP Publisher: Gerry Fasse, **W8GF**

RW3GW, UA9OBA, RZ900 and UAØBA

Departing from Norilsk on April 16th the group flew by Mi8 helicopter in minus 38 degree Celsius weather to the first of the frozen outposts. Ushakova Island was a new IOTA and was eventually assigned AS-156. It was typical of the arctic outposts that were at one time populated by miners or military personnel. Now deserted, some buildings remain on the bleak wind-swept frozen sea. An automated weather station replaced the WX crew that was stationed there.

They set up tents and a station in one of the houses and activated **RIØB** and gave many Hams the new IOTA. In six days they made over 13K QSOs. Flying on they landed on Domashny Island and activated AS-042 as **RSØB**. Here there was a museum that held many photos of the brave souls who lived and worked in the far north. Pressing on they next landed on Ujedneniya Island, AS-056, which had quite a few buildings and was a virtual ghost town that appeared as though its citizens had just left. In fact, that is just about what happened because their fuel was running out and they were notified that there was no more fuel coming. The staff was told to take only what they could carry and were evacuated, leaving equipment, personal effects and food. The narrator of the video called it their local Titanic.

The modern-day Hams set up and activated **RUØE** to give out another rare one. Another 10K QSOs in three days of operating. Pressing on they flew to Isachenko Island, AS-050, for a brief stop. They activated **RUØB/p** and made 500 Qs in two hours. Loading the helicopter again they moved on to Mona Island, AS-068, where they set up a station in a bath house and made 370 Qs in two hours as **RSØB/p**. At the end of this operation

a helicopter crew presented the Hams with a large trophy, a GI5B tube with a card taped to the side commemorating their expedition. Great video of a really memorable Ham radio adventure under unbelievably harsh conditions. Meeting adjourned at 8:55 p.m. to general fellowship.

AC8W, Secretary

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*The following was excerpted from an ARRL Document submitted to interested parties.*

**Broadband over Power Line:**

*Why Amateur Radio is concerned about its deployment*

Radio amateurs are not opposed to broadband services. On the contrary, they tend to be early adopters of new technology. However, there are ways to deliver broadband that do not pollute the radio spectrum as Broadband over Power Line (BPL) does. These include fiber-to-the-home, cable, DSL, and wireless broadband. The ARRL--The National Association for Amateur Radio-- is supportive of broadband access for all Americans; however, it opposes the use of BPL as a solution to achieving this goal.

*What is Broadband over Power Line?*

BPL is the delivery of broadband Internet signals using electrical wiring to conduct high-speed digital signals to homes and businesses. BPL systems are designed to deliver Internet services using medium voltage power lines as the distribution medium and generally use the frequency range between 1.7 and 80 megahertz (MHz).

*What is the status of BPL?*

BPL has been deployed at several locations around the country for testing purposes. After receiving over 5100 responses to an April 2003 Notice of Inquiry in ET Docket No. 03-104 (most of which were from radio amateurs and others opposing BPL because of its potential interference to licensed radio services), the Federal Communications Commission adopted a Notice of Proposed Rule Making (NPRM) in ET Docket No. 04-37 with new requirements and measurement guidelines for BPL systems. The NPRM was released on February 23. The deadline for comments is May 3, 2004.

*The Concern: Broadband + Power Lines = Interference*

Because power lines are not designed to prevent radiation of RF energy, BPL represents a significant potential interference source for all radio services using this frequency range, including the Amateur Radio Service. Overhead electrical power lines and residential wiring act as antennas that unintentionally radiate the broadband signals as radio signals throughout entire neighborhoods and along roadsides. Interference has been observed nearly one mile from the nearest BPL source.

*What about regulations already in place to protect Amateurs?*

The FCC Rules require that unlicensed emitters such as BPL systems must protect licensed radio services from interference, and that they must accept any interference to their operation that is the result of normal operation by licensed radio services. However, in practice it is often difficult to resolve such interference problems in the field.

The present FCC Part 15 limits, which BPL must comply with, are set with short-duration and narrowband emissions in mind. Such emissions, like those from a garage door opener, have a small potential to cause harmful in-

terference. The same limits cannot be applied to long-duration, broadband emissions without greatly increasing the risk of harmful interference. At existing FCC Part 15 rules limits, BPL signals radiated from these power lines have a significant potential for interfering with nearby radio receivers. Instead of the radio signals one would normally hear, one will hear either tones or noise radiated from the BPL system.

*Has the interference potential been proven?*

The ARRL laboratory has made observations of BPL radiation at a number information are available on the Web at [www.arrl.org/bpl](http://www.arrl.org/bpl). There have been other observations of radio-frequency interference at BPL test sites in the US and are a matter of public record in Docket 03-104.

In late 2003, the National Telecommunications and Information Administration (NTIA) performed measurements of BPL radiation at a number of test sites. ARRL has also commissioned independent measurements of BPL field strengths based on objective, international standards. The results of both of these studies are to be published soon.

Although BPL proponents dispute these claims of interference to licensed services, they have provided little in the way of calculations or measurements of BPL radiation levels. Until now, BPL systems have been limited to small, little-publicized test areas. Even so, the number of complaints of actual interference is growing steadily and efforts to resolve them have had limited success.

*Others at risk*

The SHORT WAVES - the only part of the radio spectrum that supports long-distance, intercontinental radio

communication. The short waves are used for international broadcasting, aeronautical, maritime, disaster relief, and other services including the military. The LOW-BAND VHF frequency range is heavily used by volunteer fire departments, police, and other first responders. Depending on their distance from a BPL system, some public safety and federal government radio systems could receive harmful interference.

## Reminder

The *SEMDXA* May, 2004 meeting will be delayed one week since it would conflict with the Dayton Hamvention otherwise. Mark your calendar, ***THE MAY, 2004 SEMDXA MEETING WILL BE HELD ON FRIDAY, MAY 21!***

## The following item is excerpted from an ARRL Letter dated April 17, 2004

FCC Proposes Amateur Service Rules Changes

1. The FCC agrees with the ARRL proposal regarding "refarming" the Novice band plan.
2. The FCC proposes dropping the rules that prevent manufacturing and marketing of high-power amplifiers that operate in the 24 to 35 MHz frequency range. This rules dates back to 1978 to prevent use by Citizen Band radio operators. The FCC indicates this restriction is inconsistent with the experimental nature of the Amateur Service.
3. The FCC proposes changes in rules that would permit Kenwood's Sky

Command to be legal to operate in the United States. This revision would allow U. S. Radio Amateurs to use a portion of the 2-meter band for remote control of other radio equipment.

4. The FCC proposes including the 222-225 MHz Amateur Band for Spread Spectrum experimental use. Also, the FCC included the 6 and 2-meter bands for this purpose. Presently, Amateurs are permitted to use frequencies above 420 MHz only.

5. The FCC proposes to limit to one any application for Vanity Call signs.

6. The FCC turned down a petition to provide separate CW and Phone segments for the 160-Meter band.

7. The FCC adapted a change in the emission purity of Amateur radio equipment. The old standard of 40 dB has been increase by 3 dB to 43 dB. (43 dB below the mean power of the fundamental emission).

8. The FCC proposes to provide element 1 (5 WPM Morse capability) credit to any applicant holding a Technician Class license granted after February 14, 1991 and who can document having passed a telegraphy examination element.

9. Among several others, the FCC turned down petitions that would have imposed restrictions in the time, length or transmission frequencies of bulletins or informational transmissions directed at the amateur community. Also denied was an ARRL request to add to the special event call sign system certain call sign blocks that designate territories and possessions that have no specified mailing addresses. The FCC suggested using self-assigned indicators instead.

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Paid up *SEMDXA* members in alphabetical order:

| <u>CALL SIGN</u> | <u>E-MAIL</u>          | <u>CALL SIGN</u> | <u>E-MAIL</u>      |
|------------------|------------------------|------------------|--------------------|
| <b>AC8W</b>      | AC8W@ARRL.NET          | <b>N4JQQ</b>     | STRUTLEDGE@OII.NET |
| <b>K8CC</b>      | K8CC@COMCAST.NET       | <b>N8CQA</b>     | N8CQA@WOWWAY.COM   |
| <b>*K8CW</b>     | K8CW@ARRL.NET          | <b>N8HZM</b>     | MLS1@COMCAST.NET   |
| <b>K8DD</b>      | K8DD@ARRL.NET          | <b>N8JV</b>      | N8JV@COMCAST.NET   |
| <b>K8ESQ</b>     | K8ESQ@AOL.COM          | <b>K8KF</b>      | BOOMER@PROVIDE.NET |
| <b>K8FG</b>      | K8FG@COMCAST.NET       | <b>N8KIE</b>     | N8KIE@AOL.COM      |
| <b>K8FT</b>      | JIM.KUHNS@IEEE.ORG     | <b>N8LJ</b>      | N8LJ@USOL.COM      |
| <b>K8GT</b>      | K8GT@ARRL.NET          | <b>N8MOJ</b>     | N8MOJ@AOL.NET      |
| <b>K8JM</b>      | K8JM@USOL.COM          | <b>N8MR</b>      | N8MR@ARRL.NET      |
| <b>K8KHZ</b>     | K8KHZ@K8KHZ.COM        | <b>N8OZ</b>      | N8OZ@ARRL.NET      |
| <b>K8MDU</b>     | ROGER49201@YAHOO.COM   | <b>N8SNM</b>     | N8SNM@ARRL.NET     |
| <b>K8MSU</b>     | K8MSU@JUNO.COM         | <b>NE8I</b>      | NE8I@ARRL.NET      |
| <b>K8MV</b>      | K8MV@I2K.COM           | <b>NE8Z</b>      | NE8Z@YAHOO.NET     |
| <b>*K8NA</b>     | K8NA@ARRL.NET          | <b>W1SKU</b>     | W1SKU@ARRL.NET     |
| <b>K8NWD</b>     | K8NWD@COMCAST.NET      | <b>W8AP</b>      | N/A                |
| <b>K8SIA</b>     | K8SIA@ARRL.NET         | <b>W8GF</b>      | W8GF@AOL.COM       |
| <b>K8SIX</b>     | K8SIX@COMCAST.NET      | <b>W8LU</b>      | W8LU@SCHANG.NET    |
| <b>K8UP</b>      | JOHN@FLEMING-PHOTO.COM | <b>W8PP</b>      | K8OLG@COMCAST.NET  |
| <b>K8ZE</b>      | K8ZE@ARRL.NET          | <b>W8SJ</b>      | W8SJ@AOL.COM       |
| <b>K8ZZU</b>     | K8ZZU@JUNO.COM         | <b>W8UA</b>      | W8UA@MYVINE.COM    |
| <b>KB8RJ</b>     | CHIVAREE@IX.NETCOM.COM | <b>W9CEO</b>     | SCAT42@MSN.COM     |
| <b>KC8JAY</b>    | KC8JAY@ARRL.NET        | <b>WA8BIJ</b>    | WA8BIJ@ARRL.NET    |
| <b>KK8I</b>      | DL2HBX@DARC.DE         | <b>WD8S</b>      | WD8S@ARRL.NET      |
| <b>KT8X</b>      | KT8X@PRODIGY.NET       | <b>WQ8T</b>      | WQ8T@ARRL.NET      |
| <b>LZ4GU</b>     | N/A                    |                  |                    |

\*Indicates perpetual membership

49 total call signs

Note: If your call sign does not appear on the above list, you will not receive further issues of the *Long Path* until your dues are brought up to date. Check with Buck, **N8CQA** *SEMDXA* Treasurer. If you have paid your 2004 dues and your call is not indicated, check with Buck to resolve any issues.

Our perpetual roster contains a total of 227 call signs. Of these 14 are Silent Keys (SK).

*SEMDXA* Membership Silent Keys include the following: **KB8IO, KC8OB, KM8Y, N8EOA, N8FGH, NG8S, W8BXM, W8KPL, W8KZM, W8LZV, W8QFR, W8URM, W8OHO** and **WD8CRY**

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# SEMDXA MEMBERSHIP RENEWAL

## South Eastern Michigan DX Association (SEMDXA)

Date: \_\_\_\_\_

Application for new membership\_\_\_\_\_ or Application for renewal\_\_\_\_\_ (check one)

Full membership\_\_\_\_\_ or Associate membership\_\_\_\_\_ (check one) Dues: \$15.00 annually

(See SEMDXA website for membership requirements)

Present Call Sign: \_\_\_\_\_ Previous Call Sign: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State/Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail address: \_\_\_\_\_

***MAKE CHECK PAYABLE TO SEMDXA***

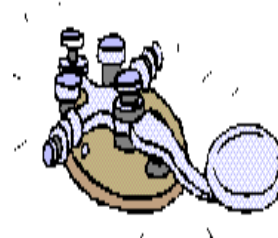
***Make payment at next SEMDXA meeting or mail with remittance to:***

***Leon Switzer, Treasurer***

***427 Jeffrey Avenue***

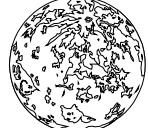
***Royal Oak, Michigan 48073***

***NOTE: TO RECEIVE THE CLUB NEWSLETTER "THE LONG PATH" YOU MUST PROVIDE YOUR E-MAIL ADDRESS!***



# May 2004

## SEMDXA Monthly Planner

| Sunday                                                                                                                                        | Monday                                                                                                                           | Tuesday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Wednesday                                                                                                                                  | Thursday                                                                                                              | Friday                                                                                                                                                         | Saturday                                                                                                         |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
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|                                                                                                                                               |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |                                                                                                                       |                                                                                                                                                                | <b>1</b><br><b>10/10 CW Test</b><br>County CW Hunt<br>EU Test<br>IN QSO Party<br>IPA Test<br>NE QSO Party        |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>2</b>                                                                                                                                      | <b>3</b><br><br><b>W1AW Qualifying Run</b>      | <b>4</b><br><br><b>Full Moon</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>5</b>                                                                                                                                   | <b>6</b>                                                                                                              | <b>7</b>                                                                                                                                                       | <b>8</b><br><b>6M Sprint</b><br><b>FISTS Sprint</b><br>Mid Atlantic<br>QSO Party<br>NV QSO Party<br>OR QSO Party |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>9</b><br><b>FISTS Sprint</b><br><br><b>Mother's Day</b> | <b>10</b>                                                                                                                        | <b>11</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>12</b><br><br><b>K6YR Qualifying Run</b>              | <b>13</b>                                                                                                             | <b>14</b><br> <b>Dayton HamVention</b>                                     | <b>15</b><br>Baltic Test CW/<br>SSB<br>County SSB Hunt<br>His Majesty Spain<br>Test<br>Newcomers Run<br>CW       |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>16</b>                                                                                                                                     | <b>17</b>                                                                                                                        | <b>18</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>19</b><br><br><b>New Moon</b><br><b>VE Day, 1945</b> | <b>20</b><br> <b>Ascension Day</b> | <b>21</b><br><br><b>SEMDXA Club Meeting</b><br><b>W1AW Qualifying Run</b> | <b>22</b>                                                                                                        |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>23</b>                                                                                                                                     | <b>24</b><br><br><b>Victoria Day (Canada)</b> | <b>25</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>26</b>                                                                                                                                  | <b>27</b>                                                                                                             | <b>28</b>                                                                                                                                                      | <b>29</b><br>CQ WPX CW<br>Test<br>GL QSO Party                                                                   |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>30</b><br>ARCI QRP CW<br>Test<br>MI QRP CW<br>Sprint<br><b>Pentecost</b>                                                                   | <b>31</b><br><br><b>Memorial Day</b>          | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><th colspan="7">April</th></tr> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> |                                                                                                                                            | April                                                                                                                 |                                                                                                                                                                |                                                                                                                  |  |  |  |  | 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 |  | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr><th colspan="7">June</th></tr> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td></tr> <tr><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> </table> |  | June |  |  |  |  |  |  | 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 |  |
| April                                                                                                                                         |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |                                                                                                                       |                                                                                                                                                                |                                                                                                                  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 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                                                                                                                                          |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                            |                                                                                                                       |                                                                                                                                                                |                                                                                                                  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 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                                                                                                                                                             |                                                                                                                  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |      |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |