Cryptoquip

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This is a passage enciphered using a substitution cipher in which each letter is replaced by another:

Hint: Z equals E

This puzzle is taken from CryptoClassics, ©2002 by King Features Syndicate. The date of this puzzle is unknown.

Answer

In what follows, CAPITAL LETTERS are the ciphertext and lower case letters are the plaintext.

```
      J I Z W
      R C B Z V X L X V
      R L Q X V R W

      Q Z B N T U X V
      I R C B Q Z M M K I G M

      J Z R M I Z Q ,
      X M V G N U A T Z R

      W X W Z M K - A Z F Q Z Z R W F G U R.
```

From the hint, we have:

Z equals e

```
J I e W R C B e V X L X V R L Q X V R W Q e B N T U X V I R C B Q Z M M K I G M J e R M I e Q , X M V G N U A T e R W X W e M K - A e F Q e e R W F G U R.
```

Note R is a single letter word. That means it is a or i. It ends the last word in the cryptoquip, and more English words end in "a" than "i". So we guess:

Guess R equals a

```
      J I e W
      a
      C B e V X L X V
      a L Q X V a W

      Q e B N T U X V
      I a C
      B Q e M M K
      I G M

      J e a M I e Q ,
      X M
      V G N U A
      T e a
      a

      W X W e M K - A e F Q e e
      a W F G U a.
```

Look at the first word. It begins the passage, the next word is "a", and there is a comma before there is a period. So, the first word probably introduces a clause, and would be a conjunction. The word "when" comes to mind. Let's try it:

Guess JIeW equals when

```
w h e n a C B e V X L X V a L Q X V a n Q e B N T U X V h a C B Q e M M K h G M w e a M h e Q , X M V G N U A T e a n X n e M K - A e F Q e e a n F G U a.
```

The first word in the third line is almost certainly "weather":

Guess weaMheQ equals weather

```
w h e n a C B e V X L X V a L r X V a n r e B N T U X V h a C B r e t t K h G t w e a t h e r , X t V G N U A T e a n X n e t K - A e F r e e a n F G U a.
```

The first word in the third line is almost certainly "weather": Guess weaMheQ equals weather

```
      w h e n
      a
      C B e V X L X V
      a L r X V a n

      r e B N T U X V
      h a C B r e t t K h G t

      w e a t h e r , X t V G N U A T e a

      n X n e t K - A e F r e e a
```

The first word in the last line looks like "ninety":

Guess nXnetK equals ninety

```
when a CBeViLiV aLriVan
reBNTUiV haCBretty hGt
weather, it VGNUATe a
ninety-AeFree anFGUa.
```

The third word in the second line can only be "pretty": Guess $\ensuremath{\mathtt{B}}$ equals $\ensuremath{\mathtt{p}}$

```
w h e n a C p e V i L i V a L r i V a n r e p N T U i V h a C p r e t t y h G t w e a t h e r, i t V G N U A T e a n i n e t y - A e F r e e a n F G U a.
```

The last word in the second line could be "hat", "hit", "hot", or "hut". Between "pretty" and "weather", only "hot" makes sense. So:

Guess G equals o

```
when a CpeViLiV aLriVan
repNTUiV haCpretty hot
weather, it VoNUATe a
ninety-AeFree anFoUa.
```

As the passage talks about weather, "ninety" is probably a temperature. So the word following the "ninety" is likely to be "degree":

Guess AeFree equals degree

```
w h e n a C p e V i L i V a L r i V a n r e p N T U i V h a C p r e t t y h o t w e a t h e r, i t V o N U d T e a n i n e t y - d e g r e e a n g o U a.
```

In the third line, the words after "it" probably are "could be" or "would be". On the first line, the third word ends in V, so V is probably c and not w:

Guess VoNUd Te equals could be

```
when a CpeciLic aLrican republic haC pretty hot weather, it could be a ninety-degree angola.
```

The last word on the first line is undoubtedly "african":

```
when a Cpecific african
republic haC pretty hot
weather, it could be a
ninety-degree angola.
```

The third word on the first line has to be "specific": Guess $\mathbb C$ equals $\mathbb S$

```
when a specific african republic has pretty hot weather, it could be a ninety-degree angola.
```

Thus, the passage is:

When a specific African republic has pretty hot weather, it could be a ninety-degree Angola.