



OREGON TRAIL

Dan Rawitsch



This program simulates a trip over the Oregon Trail from Independence, Missouri to Oregon City, Oregon in 1847. Your family of five will cover the 2040-mile Oregon Trail in 5-6 months — if you make it alive.

RATIONALE FOR COMPUTER USAGE

This computer simulation, developed initially in 1971 and refined in 1975, is an attempt to give students a better feeling of what the journey west was like for the people who attempted it. Like all simulations, OREGON does not attempt to replicate exactly a trip on a wagon train in the 1840's. But it does attempt to present students with some of the resources, decisions, and events that faced the pioneers of that day. Although students can find out about the Oregon Trail by reading books, visiting museums, watching movies, and similar activities, the simulation allows them to learn from actively participating in the simulated experiences of people from another era.

INTRODUCTION

"The Santa Fe Trail being first established, a signboard was later set up to show where the Oregon Trail branched off. It bore the simple legend 'Road To Oregon.' ... Surely so unostentatious a sign never before nor since announced so long a journey."

- H.M. Chittenden

The American Fur Trade of the Far West

During the thirty-year period from 1840 to 1870, thousands of pioneers traveled over the 2000-mile Oregon Trail to settle on the West Coast. The history of the trail may be seen by some as a strong example of heroic American themes such as "conquering the frontier" and "the pioneer spirit." To others, the great western migration carries the political overtones of the colonists and their descendents forcing out British imperialism and clearing away the native American Indians in an effort to dominate middle North America themselves. At the very least, the journey over the trail represents the human stories of many individuals who, oblivious to historical trends, tried to survive in life as best they knew how.

Background On The OREGON Program

In 1971, Don Rawitsch and Bill Heinemann were participating together in a practice teaching program as students at Carleton College, Northfield, Minnesota. Don was teaching a class on the history of the American West and provided the preliminary information which Bill, a math teacher, used to construct the OREGON program. The program was first implemented on the Minneapolis Schools timesharing system. On the completion of the practice teaching program, the program was removed from the Minneapolis system and remained only as a curled up listing until Don joined the MECC staff in 1974 and loaded it onto the MECC system. Don then proceeded to do further research on the Oregon Trail and modified the program for historical accuracy to produce the present version. The program has been implemented on Hewlett-Packard, UNIVAC, and Control Data systems.



HISTORICAL BACKUP INFORMATION

Although historical information about the trip to Oregon is not extremely plentiful, primary and secondary sources were used whenever possible to make the simulation authentic.

- Mileage and route of the Trail
Morgan, insert-back cover, "Map of T.H. Jefferson - 1849"
Hancock, xiv, xv, information based on a map of 1846
Meeker, *Ox Team Days*, pp. 252-53
Meeker, *Ox Team Days*, p. 61 - says travelers averaged 15-25 miles per day, though they didn't travel every day. In the simulation, players make about 175-200 miles every two-week period.
Ghent, p. 73 - says ox-drawn wagons made 2 miles per hour, or 20 miles on good days and 5-10 miles on bad days.

- Costs of resources
Meeker, *Ox Team Days*, p. 13, says in 1850's sugar cost 18¢/lb., salt cost \$3.00/barrel, calico cost 15¢/yd.

Ghent, p. 99, says a team of oxen cost about \$200 (for eight); references a guidebook of the time which recommends the following to be included for each adult:

150 lbs. of flour	25 lbs. of bacon
25 lbs. of sugar	15 lbs. of coffee

In the simulation, the player spends \$200-\$300 on an oxen team. Based on the Meeker information, if the average commodity cost about 20¢/lb. and the average family of five eats as much as four adults, a good food stock would cost about \$175. This is a reasonable amount to start with in the simulation.

- Frequency of misfortunes occurring

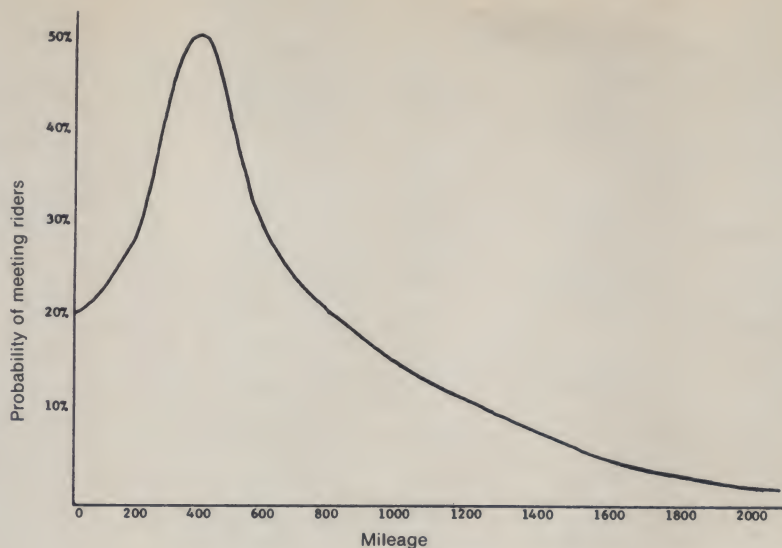
Table 1 shows a frequency analysis of events mentioned in the diaries of three people that traveled the entire length of the trail. The probabilities of events occurring in the simulation are based on this analysis.

- Miscellaneous

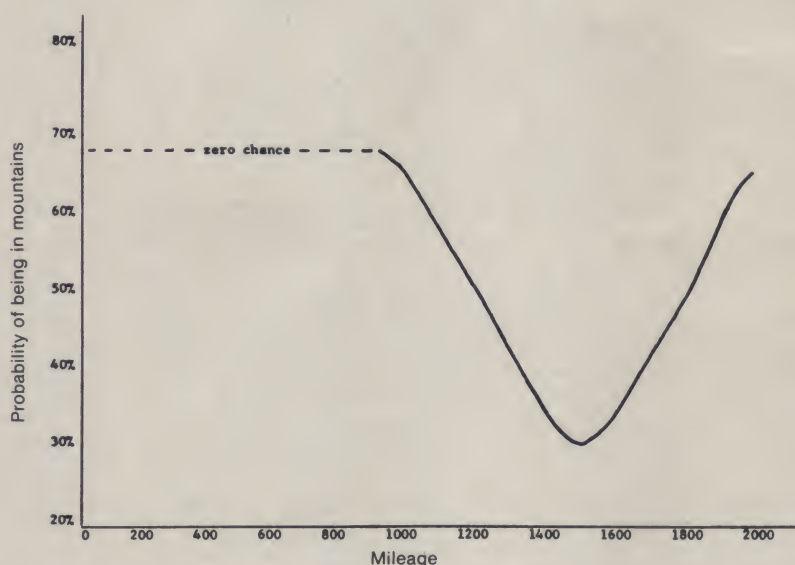
Dates and days of the week shown are correct for 1847.

The average trip in the simulation takes about 12 two-week turns. There were six forts on the trail. In the simulation a player gets the option to stop at a fort every other turn.

Probability curves for being attacked by riders and for being in the mountains are representative of the geographic features of the land. (Riders attack more frequently on the plains.)



Occurrence of "Riders Ahead" as a function of mileage



Occurrence of "Rugged Mountains" as a function of mileage

BIBLIOGRAPHY

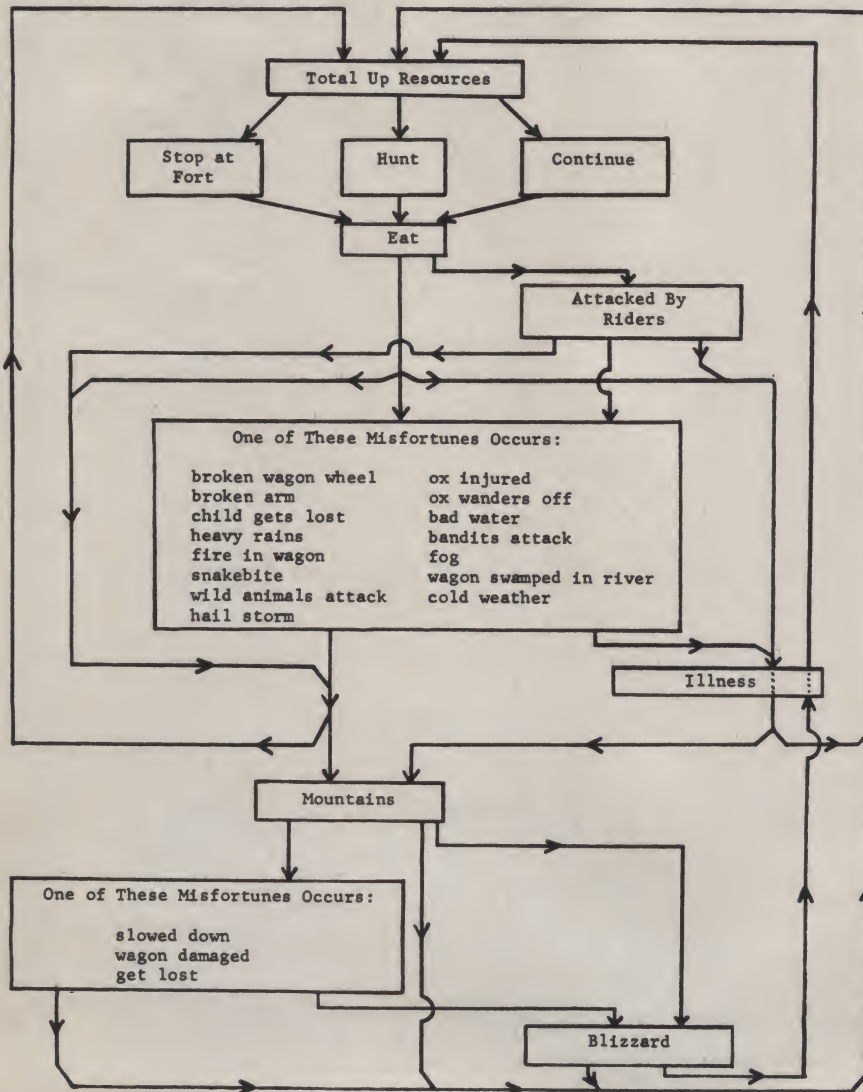
- Ghent, William J., *The Road to Oregon*, Longmans, Green & Co., New York, 1929
 Hancock, Samuel, *Narrative of Samuel Hancock*, George H. Harrap & Co., Ltd., London, 1927.
 Meeker, Ezra, *Ox Team Days on the Oregon Trail*, pub. by E. Meeker, New York, 1907.
 Morgan, Dale L., *Overland in 1846*, Talisman Press, Georgetown, California, 1963.

Extensive additional material; sources, and background are contained in the MECC OREGON User Manual by Don Rawitsch. Minnesota Educational Computer Consortium, 2520 Broadway Drive, Lauderdale, MN 55113.

INFORMATION FROM DIARIES OF PEOPLE TRAVELING THE OREGON TRAIL
 (Source: Morgan, David L., *Overland in 1846*, pp. 123-130,150-158,163-188)

Reference	Start Date	End Date	Total Weeks	No. of Occurrences	Frequency of Occurrences			
Diary of William E. Taylor	4/20/1846	9/13/1846	21	32	bad weather	10	illness	4
					rugged trail	4	no water	3
					animals lost	1	injury	0
					wagon breakdown	2	bad river	1
					met friendly Indians	5	thieves	2
Diary of Nicholas Carriger	4/27/1846	9/26/1846	22	30	bad weather	2	illness	10
					rugged trail	6	injury	3
					animals lost	6	thieves	1
					wagon breakdown	2		
Diary of Virgil Pringle	4/15/1846	11/30/1846	33	38	bad weather	7	no water	5
					illness	5	injury	2
					rugged trail	7	bad river	3
					animals lost	3	thieves	2
					wagon breakdown	4		
TOTALS: avg. 25					bad weather	20%	illness	20%
avg. 33					rugged trail	16%	no water	8%
					animals lost	10%	injury	5%
					wagon breakdown	8%	bad river	4%
					met friendly Indians	5%	thieves	4%

Table 1

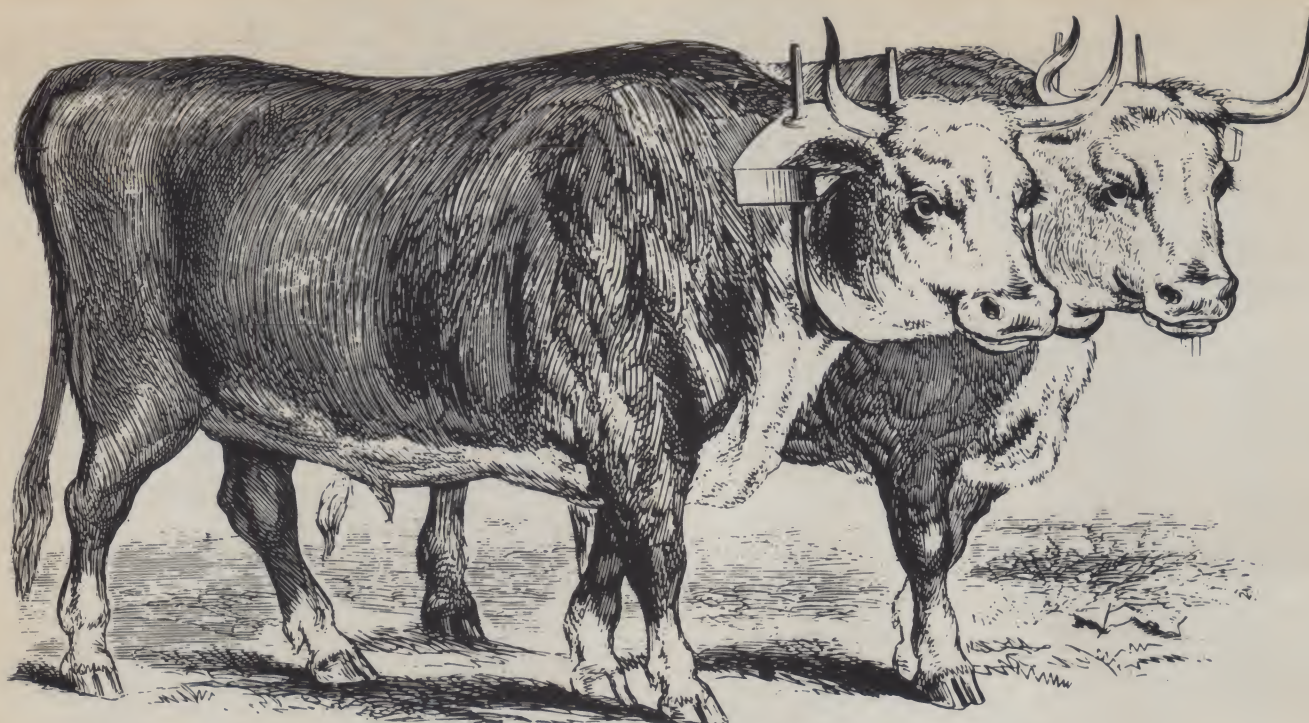


Background on MECC

The Minnesota Educational Computing Consortium (MECC) was created in 1972 out of concern by the governor and legislature that educational computing needed a central source of coordination for planning, and a mechanism to insure that all educational institutions in the state would have equal opportunity of access to computing services for both instructional and administrative programs. The Consortium's membership includes the University of Minnesota (5 campuses), The Minnesota State University System (7 campuses), the Minnesota Community College System (18 campuses), the Minnesota Department of Education (representing the state's 436 independent school districts), and the Minnesota Department of Administration. Minnesota is the only state in the country having a central organization for coordinating educational computing activities across all levels of education.

The MECC Instructional Services Division offers a variety of services to consortium members. A technical staff operates the largest of Minnesota's computers dedicated to instructional computing, a Control Data CYBER 73 time-sharing system. The MECC Timeshare System is currently configured for 375 user ports and serves about 1100 interactive terminals located in schools and colleges across the state. A large multiplexing communications network provides the route by which MECC users access the Timeshare System, whether they are a few miles from the Minneapolis-St. Paul computer center or hundreds of miles away near the Canadian border. The MECC User Services staff of instructional coordinators helps user learn to make better use of the computer by visiting school and college sites, conducting workshops, providing over-the-phone consulting service, publishing news letters, and producing written documentation for programs in the MECC Timeshare System's central library.

OREGON: Detailed Model



Sample Run

THIS PROGRAM SIMULATES A TRIP OVER THE OREGON TRAIL FROM INDEPENDENCE, MISSOURI TO OREGON CITY, OREGON IN 1847. YOUR FAMILY OF FIVE WILL COVER THE 2040 MILE OREGON TRAIL IN 5-6 MONTHS --- IF YOU MAKE IT ALIVE.

YOU HAD SAVED \$900 TO SPEND FOR THE TRIP, AND YOU'VE JUST PAID \$200 FOR A WAGON.
YOU WILL NEED TO SPEND THE REST OF YOUR MONEY ON THE FOLLOWING ITEMS

OXEN - YOU CAN SPEND \$200-\$300 ON YOUR TEAM
THE MORE YOU SPEND, THE FASTER YOU'LL GO
BECAUSE YOU'LL HAVE BETTER ANIMALS

FOOD - THE MORE YOU HAVE, THE LESS CHANCE THERE IS OF GETTING SICK

AMMUNITION - \$1 BUYS A BELT OF 50 BULLETS
YOU WILL NEED BULLETS FOR ATTACKS BY ANIMALS AND BANDITS, AND FOR HUNTING FOOD

CLOTHING - THIS IS ESPECIALLY IMPORTANT FOR THE COLD WEATHER YOU WILL ENCOUNTER WHEN CROSSING THE MOUNTAINS

MISCELLANEOUS SUPPLIES - THIS INCLUDES MEDICINE AND OTHER THINGS YOU WILL NEED FOR SICKNESS AND EMERGENCY REPAIRS

YOU CAN SPEND ALL YOUR MONEY BEFORE YOU START YOUR TRIP - OR YOU CAN SAVE SOME OF YOUR CASH TO SPEND AT FORTS ALONG THE WAY WHEN YOU RUN LOW. HOWEVER, ITEMS COST MORE AT THE FORTS. YOU CAN ALSO GO HUNTING ALONG THE WAY TO GET MORE FOOD.
WHenever you have to use your trusty rifle along the way, you will be told to type in a word (one that sounds like a gun shot). THE FASTER YOU TYPE IN THAT WORD AND HIT THE "RETURN" KEY, THE BETTER LUCK YOU'LL HAVE WITH YOUR GUN.

AT EACH TURN, ALL ITEMS ARE SHOWN IN DOLLAR AMOUNTS EXCEPT BULLETS
WHEN ASKED TO ENTER MONEY AMOUNTS, DON'T USE A "\$".

GOOD LUCK!!!

HOW GOOD A SHOT ARE YOU WITH YOUR RIFLE?

(1) ACE MARKSMAN, (2) GOOD SHOT, (3) FAIR TO MIDDLIN'
(4) NEED MORE PRACTICE, (5) SHAKY KNEES

ENTER ONE OF THE ABOVE -- THE BETTER YOU CLAIM YOU ARE, THE FASTER YOU'LL HAVE TO BE WITH YOUR GUN TO BE SUCCESSFUL.
? 4

HOW MUCH DO YOU WANT TO SPEND ON YOUR OXEN TEAM ? 250
HOW MUCH DO YOU WANT TO SPEND ON FOOD ? 150
HOW MUCH DO YOU WANT TO SPEND ON AMMUNITION ? 50
HOW MUCH DO YOU WANT TO SPEND ON CLOTHING ? 150
HOW MUCH DO YOU WANT TO SPEND ON MISCELLANEOUS SUPPLIES ? 50
AFTER ALL YOUR PURCHASES, YOU NOW HAVE 50 DOLLARS LEFT

MONDAY MARCH 29 1847

TOTAL MILEAGE IS 0				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
150	2500	150	50	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
? 2

DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
OR (3) WELL ? 1

THERE WAS A FIRE IN YOUR WAGON--FOOD AND SUPPLIES DAMAGED

MONDAY APRIL 12 1847

TOTAL MILEAGE IS 200				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
97	2100	150	40	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
? 3

DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
OR (3) WELL ? 1

YOU KILLED A POISONOUS SNAKE AFTER IT BIT YOU

MONDAY APRIL 26 1847

TOTAL MILEAGE IS 409				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
84	2090	150	35	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
? 2

DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
OR (3) WELL ? 2

WAGON GETS SWAMPED FORDING RIVER--LOSE FOOD AND CLOTHES

MONDAY MAY 10 1847

TOTAL MILEAGE IS 580				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
36	2090	130	35	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
? 2

TYPE UHAM
? UHAM

RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!
 FULL BELLIES TONIGHT!
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 3
 WAGON GETS SWAMPED FORDING RIVER--LOSE FOOD AND CLOTHES

MONDAY MAY 24 1847

TOTAL MILEAGE IS 719				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
36	2078	110	35	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
 ? 1
 TYPE POW
 ? POW

RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!
 FULL BELLIES TONIGHT!
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2
 RIDERS AHEAD. THEY LOOK HOSTILE
 TACTICS
 (1) RUN (2) ATTACK (3) CONTINUE (4) CIRCLE WAGONS
 ? 2
 TYPE BLAM
 ? BLAM

NICE SHOOTING---YOU DROVE THEM OFF
 RIDERS WERE HOSTILE--CHECK FOR LOSSES
 HELPFUL INDIANS SHOW YOU WHERE TO FIND MORE FOOD

MONDAY JUNE 7 1847

TOTAL MILEAGE IS 883				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
86	1984	110	35	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
 ? 3
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 1
 WAGON GETS SWAMPED FORDING RIVER--LOSE FOOD AND CLOTHES
 RUGGED MOUNTAINS
 THE GOING GETS SLOW
 BLIZZARD IN MOUNTAIN PASS--TIME AND SUPPLIES LOST

MONDAY JUNE 21 1847

TOTAL MILEAGE IS 950				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
18	1684	90	25	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
 ? 1
 TYPE BLAM
 ? BLAM

RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!
 FULL BELLIES TONIGHT!
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2
 RIDERS AHEAD. THEY LOOK HOSTILE
 TACTICS
 (1) RUN (2) ATTACK (3) CONTINUE (4) CIRCLE WAGONS
 ? 2
 TYPE BLAM
 ? BLAM

NICE SHOOTING---YOU DROVE THEM OFF
 RIDERS WERE HOSTILE--CHECK FOR LOSSES
 HAIL STORM---SUPPLIES DAMAGED
 RUGGED MOUNTAINS
 THE GOING GETS SLOW



MONDAY JULY 5 1847

TOTAL MILEAGE IS 1004				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
53	1392	90	19	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
 ? 3
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2
 WILD ANIMALS ATTACK!
 TYPE POW
 ? POW

NICE SHOOTIN' PARDNER---THEY DIDN'T GET MUCH
 MONDAY JULY 19 1847

TOTAL MILEAGE IS 1217				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
35	1392	90	19	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
 ? 2
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2

MONDAY AUGUST 2 1847

TOTAL MILEAGE IS 1429				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
17	1392	90	19	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
 ? 2
 TYPE BANG
 ? BANG

RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!
 FULL BELLIES TONIGHT!
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2

MONDAY AUGUST 16 1847

TOTAL MILEAGE IS 1594				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
55	1380	90	19	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
 ? 2
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2
 RIDERS AHEAD. THEY LOOK HOSTILE
 TACTICS
 (1) RUN (2) ATTACK (3) CONTINUE (4) CIRCLE WAGONS
 ? 2
 TYPE WHAM
 ? WHAM

NICE SHOOTING---YOU DROVE THEM OFF
 RIDERS WERE HOSTILE--CHECK FOR LOSSES
 WILD ANIMALS ATTACK!
 TYPE BLAM
 ? BLAM



NICE SHOOTIN' PARDNER---THEY DIDN'T GET MUCH
 RUGGED MOUNTAINS
 THE GOING GETS SLOW
 BLIZZARD IN MOUNTAIN PASS--TIME AND SUPPLIES LOST

MONDAY AUGUST 31 1847

YOU'D BETTER DO SOME HUNTING OR BUY FOOD AND SOON!!!!
 TOTAL MILEAGE IS 1685

FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
11	999	89	9	50

DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, OR (3) CONTINUE
 ? 2
 TYPE POW
 ? POW

RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!
 FULL BELLIES TONIGHT!
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 2

MONDAY SEPTEMBER 13 1847

TOTAL MILEAGE IS 1847				
FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
48	986	89	9	50

DO YOU WANT TO (1) HUNT, OR (2) CONTINUE
 ? 2
 DO YOU WANT TO EAT (1) POORLY (2) MODERATELY
 OR (3) WELL ? 1
 COLD WEATHER---BRRRRRRR!---YOU HAVE ENOUGH CLOTHING TO KEEP YOU WARM

YOU FINALLY ARRIVED AT OREGON CITY
 AFTER 2040 LONG MILES---HOORAY!!!!
 A REAL PIONEER!

SATURDAY SEPTEMBER 25 1847

FOOD	BULLETS	CLOTHING	MISC. SUPP.	CASH
35	986	89	9	50

PRESIDENT JAMES K. POLK SENDS YOU HIS
 HEARTIEST CONGRATULATIONS

AND WISHES YOU A PROSPEROUS LIFE AHEAD

AT YOUR NEW HOME

RUN COMPLETE.



Program Listing

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10 REM PROGRAM NAME - OREGON          VERSION:01/01/78
20 REM ORIGINAL PROGRAMMING BY BILL HEINEMANN - 1971
30 REM SUPPORT RESEARCH AND MATERIALS BY DON RAVITSCH.
40 REM MINNESOTA EDUCATIONAL COMPUTING CONSORTIUM STAFF
50 REM CDC CYBER 70/73-26          BASIC 3.1
60 REM DOCUMENTATION BOOKLET 'OREGON' AVAILABLE FROM
61 REM NECC SUPPORT SERVICES
62 REM 2520 BROADWAY DRIVE
63 REM ST. PAUL, MN 55113
80 REM
150 REM *FOR THE MEANING OF THE VARIABLES USED, LIST LINES 6470-6790*
155 REM
160 PRINT "DO YOU NEED INSTRUCTIONS (YES/NO)";
170 DIM C$(5)
180 REM RANDOMIZE REMOVED
190 INPUT C$
200 IF C$="NO" THEN 690
210 PRINT
220 PRINT
230 REM ***INSTRUCTIONS***
240 PRINT "THIS PROGRAM SIMULATES A TRIP OVER THE OREGON TRAIL FROM"
250 PRINT "INDEPENDENCE, MISSOURI TO OREGON CITY, OREGON IN 1847."
260 PRINT "YOUR FAMILY OF FIVE WILL COVER THE 2040 MILE OREGON TRAIL"
270 PRINT "IN 5-6 MONTHS --- IF YOU MAKE IT ALIVE."
280 PRINT
290 PRINT "YOU HAD SAVED $900 TO SPEND FOR THE TRIP, AND YOU'VE JUST"
300 PRINT "PAID $200 FOR A WAGON."
310 PRINT "YOU WILL NEED TO SPEND THE REST OF YOUR MONEY ON THE"
320 PRINT "FOLLOWING ITEMS:"
330 PRINT
340 PRINT "    OXEN - YOU CAN SPEND $200-$300 ON YOUR TEAM"
350 PRINT "    THE MORE YOU SPEND, THE FASTER YOU'LL GO"
360 PRINT "    BECAUSE YOU'LL HAVE BETTER ANIMALS"
370 PRINT
380 PRINT "    FOOD - THE MORE YOU HAVE, THE LESS CHANCE THERE"
390 PRINT "    IS OF GETTING SICK"
400 PRINT
410 PRINT "    AMMUNITION - SI BUYS A BELT OF 50 BULLETS"
420 PRINT "    YOU WILL NEED BULLETS FOR ATTACKS BY ANIMALS"
430 PRINT "    AND BANDITS, AND FOR HUNTING FOOD"
440 PRINT
450 PRINT "    CLOTHING - THIS IS ESPECIALLY IMPORTANT FOR THE COLD"
460 PRINT "    WEATHER YOU WILL ENCOUNTER WHEN CROSSING"
470 PRINT "    THE MOUNTAINS"
480 PRINT
490 PRINT "    MISCELLANEOUS SUPPLIES - THIS INCLUDES MEDICINE AND"
500 PRINT "    OTHER THINGS YOU WILL NEED FOR SICKNESS"
510 PRINT "    AND EMERGENCY REPAIRS"
520 PRINT
530 PRINT
540 PRINT "YOU CAN SPEND ALL YOUR MONEY BEFORE YOU START YOUR TRIP --"
550 PRINT "OR YOU CAN SAVE SOME OF YOUR CASH TO SPEND AT FORTS ALONG"
560 PRINT "THE WAY WHEN YOU RUN LOW. HOWEVER, ITEMS COST MORE AT"
570 PRINT "THE FORTS. YOU CAN ALSO GO HUNTING ALONG THE WAY TO GET"
580 PRINT "MORE FOOD."
590 PRINT "WHENEVER YOU HAVE TO USE YOUR TRUSTY RIFLE ALONG THE WAY,"
600 PRINT "YOU WILL BE TOLD TO TYPE IN A WORD (ONE THAT SOUNDS LIKE A"
610 PRINT "GUN SHOT). THE FASTER YOU TYPE IN THAT WORD AND HIT THE"
620 PRINT "RETURN KEY, THE BETTER LUCK YOU'LL HAVE WITH YOUR GUN."
630 PRINT
640 PRINT "AT EACH TURN, ALL ITEMS ARE SHOWN IN DOLLAR AMOUNTS"
650 PRINT "EXCEPT BULLETS"
660 PRINT "WHEN ASKED TO ENTER MONEY AMOUNTS, DON'T USE A "S".""
670 PRINT
680 PRINT "GOOD LUCK!!!"
690 PRINT
700 PRINT
710 PRINT "HOW GOOD A SHOT ARE YOU WITH YOUR RIFLE?"
720 PRINT " (1) ACE MARKSMAN, (2) GOOD SHOT, (3) FAIR TO MIDDLIN'"
730 PRINT " (4) NEED MORE PRACTICE, (5) SHAKY KNEES"
740 PRINT "ENTER ONE OF THE ABOVE -- THE BETTER YOU CLAIM YOU ARE, THE"
750 PRINT "FASTER YOU'LL HAVE TO BE WITH YOUR GUN TO BE SUCCESSFUL."
760 INPUT D$
770 IF D$>5 THEN 790
780 GOTO 810
790 D$=0
800 REM ***INITIAL PURCHASES***
810 X1=-1
820 K$=S$=F1=F2=M=H9=D3=0
830 PRINT
840 PRINT
850 PRINT "HOW MUCH DO YOU WANT TO SPEND ON YOUR OXEN TEAM?";
860 INPUT A
870 IF A >= 200 THEN 900
880 PRINT "NOT ENOUGH"
890 GOTO 850
900 IF A <= 300 THEN 930
910 PRINT "TOO MUCH"
920 GOTO 850
930 PRINT "HOW MUCH DO YOU WANT TO SPEND ON FOOD?";
940 INPUT F

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950 IF F >= 0 THEN 980
960 PRINT "IMPOSSIBLE"
970 GOTO 930
980 PRINT "HOW MUCH DO YOU WANT TO SPEND ON AMMUNITION?";
990 INPUT B
1000 IF B >= 0 THEN 1030
1010 PRINT "IMPOSSIBLE"
1020 GOTO 980
1030 PRINT "HOW MUCH DO YOU WANT TO SPEND ON CLOTHING?";
1040 INPUT C
1050 IF C >= 0 THEN 1080
1060 PRINT "IMPOSSIBLE"
1070 GOTO 1030
1080 PRINT "HOW MUCH DO YOU WANT TO SPEND ON MISCELLANEOUS SUPPLIES?";
1090 INPUT M1
1100 IF M1 >= 0 THEN 1130
1110 PRINT "IMPOSSIBLE"
1120 GOTO 1080
1130 T=700-A-F-B-C-M1
1140 IF T >= 0 THEN 1170
1150 PRINT "YOU OVERSPENT--YOU ONLY HAD $700 TO SPEND. BUY AGAIN"
1160 GOTO 830
1170 B=50+B
1180 PRINT "AFTER ALL YOUR PURCHASES, YOU NOW HAVE "J$" DOLLARS LEFT"
1190 PRINT
1200 PRINT "MONDAY MARCH 29 1847"
1210 PRINT
1220 GOTO 1750
1230 IF M >= 2040 THEN 5430
1240 REM ***SETTING DATE***
1250 D3=D3+1
1260 PRINT
1270 PRINT "MONDAY ";
1280 IF D3>10 THEN 1300
1290 ON D3 GOTO 1310,1330,1350,1370,1390,1410,1430,1450,1470,1490
1300 ON D3-10 GOTO 1510,1530,1550,1570,1590,1610,1630,1650,1670,1690
1310 PRINT "APRIL 12 ";
1320 GOTO 1720
1330 PRINT "APRIL 26 ";
1340 GOTO 1720
1350 PRINT "MAY 10 ";
1360 GOTO 1720
1370 PRINT "MAY 24 ";
1380 GOTO 1720
1390 PRINT "JUNE 7 ";
1400 GOTO 1720
1410 PRINT "JUNE 21 ";
1420 GOTO 1720
1430 PRINT "JULY 5 ";
1440 GOTO 1720
1450 PRINT "JULY 19 ";
1460 GOTO 1720
1470 PRINT "AUGUST 2 ";
1480 GOTO 1720
1490 PRINT "AUGUST 16 ";
1500 GOTO 1720
1510 PRINT "AUGUST 31 ";
1520 GOTO 1720
1530 PRINT "SEPTEMBER 13 ";
1540 GOTO 1720
1550 PRINT "SEPTEMBER 27 ";
1560 GOTO 1720
1570 PRINT "OCTOBER 11 ";
1580 GOTO 1720
1590 PRINT "OCTOBER 25 ";
1600 GOTO 1720
1610 PRINT "NOVEMBER 8 ";
1620 GOTO 1720
1630 PRINT "NOVEMBER 22 ";
1640 GOTO 1720
1650 PRINT "DECEMBER 6 ";
1660 GOTO 1720
1670 PRINT "DECEMBER 20 ";
1680 GOTO 1720
1690 PRINT "YOU HAVE BEEN ON THE TRAIL TOO LONG -----"
1700 PRINT "YOUR FAMILY DIES IN THE FIRST BLIZZARD OF WINTER"
1710 GOTO 5170
1720 PRINT "1847"
1730 PRINT
1740 REM ***BEGINNING EACH TURN***
1750 IF F >= 0 THEN 1770
1760 F=0
1770 IF B >= 0 THEN 1790
1780 B=0
1790 IF C >= 0 THEN 1810
1800 C=0
1810 IF M1 >= 0 THEN 1830
1820 M1=0
1830 IF F >= 13 THEN 1850
1840 PRINT "YOU'D BETTER DO SOME HUNTING OR BUY FOOD AND SOON!!!!"
1850 F=INT(F)
1860 B=INT(B)
1870 C=INT(C)
1880 M1=INT(M1)
1890 T=INT(T)
1900 M=INT(M)
1910 M2=M
1920 IF S4=1 THEN 1950
1930 IF K$=1 THEN 1950
1940 GOTO 1990
1950 T=T-20
1960 IF T<0 THEN 5080
1970 PRINT "DOCTOR'S BILL IS $20"
1980 LET K$=S4+0
1990 IF H9=1 THEN 2020
2000 PRINT "TOTAL MILEAGE IS "J$M
2010 GOTO 2040
2020 PRINT "TOTAL MILEAGE IS 950"
2030 H9=0
2040 PRINT "FOOD","BULLETS","CLOTHING","MISC. SUPP.,""CASH"
2050 PRINT F,B,C,M1,T
2060 IF X1=-1 THEN 2170
2070 X1=X1*(-1)
2080 PRINT "DO YOU WANT TO (1) STOP AT THE NEXT FORT, (2) HUNT, ";
2090 PRINT "OR (3) CONTINUE"
2100 INPUT X
2110 IF X>2 THEN 2150
2120 IF X<1 THEN 2150
2130 LET X=INT(X)

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2140 GOTO 2270
2150 LET X=3
2160 GOTO 2270
2170 PRINT "DO YOU WANT TO (1) HUNT, OR (2) CONTINUE"
2180 INPUT X
2190 IF X=1 THEN 2210
2200 LET X=2
2210 LET X=X+1
2220 IF X=3 THEN 2260
2230 IF B>39 THEN 2260
2240 PRINT "TOUGH---YOU NEED MORE BULLETS TO GO HUNTING"
2250 GOTO 2170
2260 X1=X1*(-1)
2270 ON X GOTO 2290,2540,2720
2280 REM ***STOPPING AT FORT***
2290 PRINT "ENTER WHAT YOU WISH TO SPEND ON THE FOLLOWING"
2300 PRINT "FOOD";
2310 GOSUB 2330
2320 GOTO 2410
2330 INPUT P
2340 IF P=0 THEN 2400
2350 T=T-P
2360 IF T >= 0 THEN 2400
2370 PRINT "YOU DON'T HAVE THAT MUCH--KEEP YOUR SPENDING DOWN"
2375 PRINT "YOU MISS YOUR CHANCE TO SPEND ON THAT ITEM"
2380 T=T+P
2390 P=0
2400 RETURN
2410 F=F+2/3*P
2420 PRINT "AMMUNITION";
2430 GOSUB 2330
2440 LET B=INT(B+2/3*P*50)
2450 PRINT "CLOTHING";
2460 GOSUB 2330
2470 C=C+2/3*P
2480 PRINT "MISCELLANEOUS SUPPLIES";
2490 GOSUB 2330
2500 M1=M1+2/3*P
2510 M=M-45
2520 GOTO 2720
2530 REM ***HUNTING***
2540 IF B>39 THEN 2570
2550 PRINT "TOUGH---YOU NEED MORE BULLETS TO GO HUNTING"
2560 GOTO 2050
2570 M=M-45
2580 GOSUB 6140
2590 IF B1 <= 1 THEN 2660
2600 IF 100*PND(-1)<13*B1 THEN 2710
2610 F=F+48-2*B1
2620 PRINT "NICE SHOT--RIGHT ON TARGET--GOOD EATIN' TONIGHT!!"
2630 B=B-10-3*B1
2640 GOTO 2720
2650 REM **BELLS IN LINE 2660**
2660 PRINT "RIGHT BETWEEN THE EYES---YOU GOT A BIG ONE!!!!"
2670 PRINT "FULL BELLIES TONIGHT!"
2680 F=F+52*PND(-1)*6
2690 B=B-10*PND(-1)*4
2700 GOTO 2720
2710 PRINT "YOU MISSED---AND YOUR DINNER GOT AWAY....."
2720 IF F >= 13 THEN 2750
2730 GOTO 5060
2740 REM ***EATING***
2750 PRINT "DO YOU WANT TO EAT (1) POORLY (2) MODERATELY"
2760 PRINT "OR (3) WELL";
2770 INPUT E
2780 IF E>3 THEN 2750
2790 IF E<1 THEN 2750
2800 LET E=INT(E)
2810 LET F=F-8-5*E
2820 IF F >= 0 THEN 2860
2830 F=F+8+5*E
2840 PRINT "YOU CAN'T EAT THAT WELL"
2850 GOTO 2750
2860 LET M=M+200*(A-220)/5+10*PND(-1)
2870 L1=C1=0
2880 REM ***RIDERS ATTACK***
2890 IF PND(-1)=10*((M/100-4)**2+72)/((M/100-4)**2+12)-1 THEN 3550
2900 PRINT "RIDERS AHEAD. THEY ";
2910 S5=0
2920 IF PND(-1)<8 THEN 2950
2930 PRINT "DON'T ";
2940 S5=1
2950 PRINT "LOOK HOSTILE"
2960 PRINT "TACTICS"
2970 PRINT "(1) RUN (2) ATTACK (3) CONTINUE (4) CIRCLE WAGONS"
2980 IF PND(-1)>2 THEN 3000
2990 S5=1-S5
3000 INPUT T1
3010 IF T1<1 THEN 2970
3020 IF T1>4 THEN 2970
3030 T1=INT(T1)
3040 IF S5=1 THEN 3330
3050 IF T1>1 THEN 3110
3060 M=M-20
3070 M1=M1-15
3080 B=B-150
3090 A=A-40
3100 GOTO 3470
3110 IF T1>2 THEN 3240
3120 GOSUB 6140
3130 B=B-B1*40-80
3140 IF B1>1 THEN 3170
3150 PRINT "NICE SHOOTING---YOU DROVE THEM OFF"
3160 GOTO 3470
3170 IF B1 <= 4 THEN 3220
3180 PRINT "BUSY SHOT---YOU GOT KILLED"
3190 K8=1
3200 PRINT "YOU HAVE TO SEE OL' DOC BLANCHARD"
3210 GOTO 3470
3220 PRINT "KINDA SLOW WITH YOUR COLT .45"
3230 GOTO 3470
3240 IF T1>3 THEN 3290
3250 IF PND(-1)>8 THEN 3450
3260 LET B=B-150
3270 M1=M1-15
3280 GOTO 3470
3290 GOSUB 6140
3300 B=B-B1*30-80
3310 M=M-25

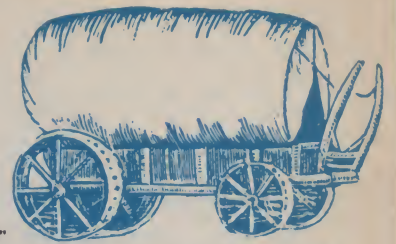
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3320 GOTO 3140
3330 IF T1>1 THEN 3370
3340 M=M-15
3350 A=A-10
3360 GOTO 3470
3370 IF T1>2 THEN 3410
3380 M=M-5
3390 B=B-100
3400 GOTO 3470
3410 IF T1>3 THEN 3430
3420 GOTO 3470
3430 M=M-20
3440 GOTO 3470
3450 PRINT "THEY DID NOT ATTACK"
3460 GOTO 3550
3470 IF S5=0 THEN 3500
3480 PRINT "RIDERS WERE FRIENDLY, BUT CHECK FOR POSSIBLE LOSSES"
3490 GOTO 3550
3500 PRINT "RIDERS WERE HOSTILE--CHECK FOR LOSSES"
3510 IF B >= 0 THEN 3550
3520 PRINT "YOU RAN OUT OF BULLETS AND GOT MASSACRED BY THE RIDERS"
3530 GOTO 5170
3540 REM ***SELECTION OF EVENTS***
3550 LET D1=0
3560 RESTORE
3570 R1=100*PND(-1)
3580 LET D1=D1+1
3590 IF D1=16 THEN 4670
3600 READ D
3610 IF R1>D THEN 3580
3620 DATA 6,11,13,15,17,22,32,35,37,42,44,54,64,69,95
3630 IF D1>10 THEN 3650
3640 ON D1 GOTO 3660,3700,3740,3790,3820,3850,3880,3960,4130,4190
3650 ON D1-10 GOTO 4220,4290,4340,4560,4610,4670
3660 PRINT "WAGON BREAKS DOWN--LOSE TIME AND SUPPLIES FIXING IT"
3670 LET M=M-15-5*PND(-1)
3680 LET M1=M1-8
3690 GOTO 4710
3700 PRINT "BX INJURES LEG---SLOWS YOU DOWN REST OF TRIP"
3710 LET M=M-25
3720 LET A=A-20
3730 GOTO 4710
3740 PRINT "BAD LUCK---YOUR DAUGHTER BROKE HER ARM"
3750 PRINT "YOU HAD TO STOP AND USE SUPPLIES TO MAKE A SLING"
3760 M=M-5-4*PND(-1)
3770 M1=M1-2-3*PND(-1)
3780 GOTO 4710
3790 PRINT "BX WANDERS OFF---SPEND TIME LOOKING FOR IT"
3800 M=M-17
3810 GOTO 4710
3820 PRINT "YOUR SON GETS LOST---SPEND HALF THE DAY LOOKING FOR HIM"
3830 M=M-10
3840 GOTO 4710
3850 PRINT "UNSAFE WATER--LOSE TIME LOOKING FOR CLEAN SPRING"
3860 LET M=M-10*PND(-1)-2
3870 GOTO 4710
3880 IF M>950 THEN 4490
3890 PRINT "HEAVY RAINS---TIME AND SUPPLIES LOST"
3910 F=F-10
3920 B=B-500
3930 M1=M1-15
3940 M=M-10*PND(-1)-5
3950 GOTO 4710
3960 PRINT "BANDITS ATTACK"
3970 GOSUB 6140
3980 B=B-20*B1
3990 IF B >= 0 THEN 4030
1000 PRINT "YOU RAN OUT OF BULLETS---THEY GET LOTS OF CASH"
4010 T=T/3
4020 GOTO 4040
4030 IF B1 <= 1 THEN 4100
4040 PRINT "YOU GOT SHOT IN THE LEG AND THEY TOOK ONE OF YOUR OXEN"
4050 K8=1
4060 PRINT "BETTER HAVE A DOC LOOK AT YOUR WOUND"
4070 M1=M1-5
4080 A=A-20
4090 GOTO 4710
4100 PRINT "QUICKEST DRAW OUTSIDE OF DODGE CITY!!!"
4110 PRINT "YOU GOT 'EM!"
4120 GOTO 4710
4130 PRINT "THERE WAS A FIRE IN YOUR WAGON--FOOD AND SUPPLIES DAMAGED"
4140 F=F-40
4150 B=B-400
4160 LET M1=M1*PND(-1)*8-3
4170 M=M-15
4180 GOTO 4710
4190 PRINT "LOSE YOUR WAY IN HEAVY FOG---TIME IS LOST"
4200 M=M-10-5*PND(-1)
4210 GOTO 4710
4220 PRINT "YOU KILLED A POISONOUS SNAKE AFTER IT BIT YOU"
4230 B=B-10
4240 M1=M1-5
4250 IF M1 >= 0 THEN 4280
4260 PRINT "YOU DIE OF SNAKEBITE SINCE YOU HAVE NO MEDICINE"
4270 GOTO 5170
4280 GOTO 4710
4290 PRINT "WAGON GETS SWAMPED FORDING RIVER--LOSE FOOD AND CLOTHES"
4300 F=F-30
4310 C=C-20
4320 M=M-20-20*PND(-1)
4330 GOTO 4710
4340 PRINT "WILD ANIMALS ATTACK!"
4350 GOSUB 6140
4360 IF B>39 THEN 4410
4370 PRINT "YOU WERE TOO LOW ON BULLETS--"
4380 PRINT "THE WOLVES OVERPOWERED YOU"
4390 K8=1
4400 GOTO 5120
4410 IF B1>2 THEN 4440
4420 PRINT "NICE SHOOTIN' PARTNER---THEY DIDN'T GET MUCH"
4430 GOTO 4450
4440 PRINT "SLOW ON THE LRAV---THEY GOT AT YOUR FOOD AND CLOTHES"
4450 B=B-20*B1
4460 C=C-B1*4
4470 F=F-B1*8
4480 GOTO 4710
4490 PRINT "COLD WEATHER---BRRRRRRRI!---YOU ";
4500 IF C>22+4*PND(-1) THEN 4530
4510 PRINT "DON'T ";

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4520 C1=1
4530 PRINT "HAVE ENOUGH CLOTHING TO KEEP YOU WARM"
4540 IF C1=0 THEN 4710
4550 GOTO 6300
4560 PRINT "HAIL STORM---SUPPLIES DAMAGED"
4570 M=M-5-RND(-1)*10
4580 B=B-200
4590 M1=M1-4-RND(-1)*3
4600 GOTO 4710
4610 IF E=1 THEN 6300
4620 IF E=3 THEN 4650
4630 IF RND(-1)>.25 THEN 6300
4640 GOTO 4710
4650 IF RND(-1)<-.5 THEN 6300
4660 GOTO 4710
4670 PRINT "HELPFUL INDIANS SHOW YOU WHERE TO FIND MORE FOOD"
4680 F=F+14
4690 GOTO 4710
4700 REM ***MOUNTAINS***
4710 IF M <= 950 THEN 1230
4720 IF RND(-1)=10*9-((M/100-15)**2*72)/((M/100-15)**2*12) THEN 4860
4730 PRINT "RUGGED MOUNTAINS"
4740 IF RND(-1)>.1 THEN 4780
4750 PRINT "YOU GOT LOST---LOSE VALUABLE TIME TRYING TO FIND TRAIL"
4760 M=M-60
4770 GOTO 4860
4780 IF RND(-1)>.11 THEN 4840
4790 PRINT "WAGON DAMAGED!---LOSE TIME AND SUPPLIES"
4800 M1=M1-5
4810 B=B-200
4820 M=M-20-30*RND(-1)
4830 GOTO 4860
4840 PRINT "THE GOING GETS SLOW"
4850 M=M-45-RND(-1)/.02
4860 IF F1=1 THEN 4900
4870 F1=1
4880 IF RND(-1)<.8 THEN 4970
4890 PRINT "YOU MADE IT SAFELY THROUGH SOUTH PASS--NO SNOW"
4900 IF M<1700 THEN 4940
4910 IF F2=1 THEN 4940
4920 F2=1
4930 IF RND(-1)<.7 THEN 4970
4940 IF M>950 THEN 1230
4950 M9=1
4960 GOTO 1230
4970 PRINT "BLIZZARD IN MOUNTAIN PASS--TIME AND SUPPLIES LOST"
4980 L1=1
4990 F=F-25
5000 M1=M1-10
5010 B=B-300
5020 M=M-30-40*RND(-1)
5030 IF C<15+2*RND(-1) THEN 6300
5040 GOTO 4940
5050 REM ***DYING***
5060 PRINT "YOU RAN OUT OF FOOD AND STARVED TO DEATH"
5070 GOTO 5170
5080 LET T=0
5090 PRINT "YOU CAN'T AFFORD A DOCTOR"
5100 GOTO 5120
5110 PRINT "YOU RAN OUT OF MEDICAL SUPPLIES"
5120 PRINT "YOU DIED OF "
5130 IF K8=1 THEN 5160
5140 PRINT "PNEUMONIA"
5150 GOTO 5170
5160 PRINT "INJURIES"
5170 PRINT
5180 PRINT "DUE TO YOUR UNFORTUNATE SITUATION, THERE ARE A FEW"
5190 PRINT "FORMALITIES WE MUST GO THROUGH"
5200 PRINT
5210 PRINT "WOULD YOU LIKE A MINISTER?"
5220 INPUT C5
5230 PRINT "WOULD YOU LIKE A FANCY FUNERAL?"
5240 INPUT C5
5250 PRINT "WOULD YOU LIKE US TO INFORM YOUR NEXT OF KIN?"
5260 INPUT C5
5270 IF C5="YES" THEN 5310
5280 PRINT "BUT YOUR AUNT SADIE IN ST. LOUIS IS REALLY WORRIED ABOUT YOU"
5290 PRINT
5300 GOTO 5330
5310 PRINT "THAT WILL BE $4.50 FOR THE TELEGRAPH CHARGE."
5320 PRINT
5330 PRINT "WE THANK YOU FOR THIS INFORMATION AND WE ARE SORRY YOU"
5340 PRINT "DIDN'T MAKE IT TO THE GREAT TERRITORY OF OREGON"
5350 PRINT "BETTER LUCK NEXT TIME"
5360 PRINT
5370 PRINT
5380 PRINT TAB(30);"SINCERELY"
5390 PRINT
5400 PRINT TAB(17);"THE OREGON CITY CHAMBER OF COMMERCE"
5410 STOP
5420 REM ***FINAL TURN***
5430 F9=(2040-M2)/(M-M2)
5440 F=F+(1-F9)*(8+5*E)
5450 PRINT
5460 REM **BELLS IN LINES 5470,5480**
5470 PRINT "YOU FINALLY ARRIVED AT OREGON CITY"
5480 PRINT "AFTER 2040 LONG MILES---HURRAY!!!!!!"
5490 PRINT "A REAL PIONEER!"
5500 PRINT
5510 F9=INT(F9*14)
5520 D3=D3*14+F9
5530 F9=F9*1
5540 IF F9<8 THEN 5560
5550 F9=F9-7
5560 ON F9 GOTO 5570,5590,5610,5630,5650,5670,5690
5570 PRINT "MONDAY "
5580 GOTO 5700
5590 PRINT "TUESDAY "
5600 GOTO 5700
5610 PRINT "WEDNESDAY "
5620 GOTO 5700
5630 PRINT "THURSDAY "
5640 GOTO 5700
5650 PRINT "FRIDAY "
5660 GOTO 5700
5670 PRINT "SATURDAY "
5680 GOTO 5700
5690 PRINT "SUNDAY "
5700 IF D3>184 THEN 5740

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5710 D3=D3-93
5720 PRINT "JULY "D3" 1847"
5730 GOTO 5920
5740 IF D3>155 THEN 5780
5750 D3=D3-184
5760 PRINT "AUGUST "D3" 1847"
5770 GOTO 5920
5780 IF D3>185 THEN 5820
5790 D3=D3-155
5800 PRINT "SEPTEMBER "D3" 1847"
5810 GOTO 5920
5820 IF D3>216 THEN 5860
5830 D3=D3-185
5840 PRINT "OCTOBER "D3" 1847"
5850 GOTO 5920
5860 IF D3>246 THEN 5900
5870 D3=D3-216
5880 PRINT "NOVEMBER "D3" 1847"
5890 GOTO 5920
5900 D3=D3-246
5910 PRINT "DECEMBER "D3" 1847"
5920 PRINT
5930 PRINT "FOOD", "BULLETS", "CLOTHING", "MISC. SUPP.", "CASH"
5940 IF B=0 THEN 5960
5950 LET B=0
5960 IF C=0 THEN 5980
5970 LET C=0
5980 IF M1=0 THEN 6000
5990 LET M1=0
6000 IF T=0 THEN 6020
6010 LET T=0
6020 IF F=0 THEN 6040
6030 LET F=0
6040 PRINT INT(F),INT(B),INT(C),INT(M1),INT(T)
6050 PRINT
6060 PRINT TAB(11); "PRESIDENT JAMES K. POLK SENDS YOU HIS"
6070 PRINT TAB(17); "HEARTIEST CONGRATULATIONS"
6080 PRINT
6090 PRINT TAB(11); "AND WISHES YOU A PROSPEROUS LIFE AHEAD"
6100 PRINT
6110 PRINT TAB(22); "AT YOUR NEW HOME"
6120 STOP
6130 REM ***SHOOTING SUB-ROUTINE***
6131 REM THE METHOD OF TIMING THE SHOOTING (LINES 6210-6240)
6132 REM WILL VARY FROM SYSTEM TO SYSTEM. FOR EXAMPLE: M-P
6133 REM USERS WILL PROBABLY PREFER TO USE THE 'ENTER' STATEMENT.
6134 REM IF TIMING ON THE USER'S SYSTEM IS HIGHLY SUSCEPTIBLE
6135 REM TO SYSTEM RESPONSE TIME, THE FORMULA IN LINE 6240 CAN
6136 REM BE TAILORED TO ACCOMMODATE THIS BY EITHER INCREASING
6137 REM OR DECREASING THE 'SHOOTING' TIME RECORDED BY THE SYSTEM.
6140 DIM S$(5)
6150 S$(1)="BANG"
6160 S$(2)="BLAM"
6170 S$(3)="POW"
6180 S$(4)="WHAM"
6190 S6=INT(RND(-1)*4+1)
6200 PRINT "TYPE "S$(S6)
6210 B3 = CLK(0)
6220 INPUT C5
6230 B1 = CLK(0)
6240 B1=((B1-B3)*3600)-(D9-1)
6250 PRINT
6255 IF B1>0 THEN 6260
6257 B1=0
6260 IF C5=S$(S6) THEN 6280
6270 B1=0
6280 RETURN
6290 REM ***ILLNESS SUB-ROUTINE***
6300 IF 100*RND(-1)<10+35*(E-1) THEN 6370
6310 IF 100*RND(-1)<100-(40/((E-1))) THEN 6410
6320 PRINT "SERIOUS ILLNESS---"
6330 PRINT "YOU MUST STOP FOR MEDICAL ATTENTION"
6340 M1=M1-10
6350 S4=1
6360 GOTO 6440
6370 PRINT "MILD ILLNESS---MEDICINE USED"
6380 M=M-5
6390 M1=M1-2
6400 GOTO 6440
6410 PRINT "BAD ILLNESS---MEDICINE USED"
6420 M=M-5
6430 M1=M1-5
6440 IF M1<0 THEN 5110
6450 IF L1=1 THEN 4940
6460 GOTO 4710
6470 REM ***IDENTIFICATION OF VARIABLES IN THE PROGRAM***
6480 REM A = AMOUNT SPENT ON ANIMALS
6490 REM B = AMOUNT SPENT ON AMMUNITION
6500 REM B1 = ACTUAL RESPONSE TIME FOR INPUTTING "BANG"
6510 REM B3 = CLOCK TIME AT START OF INPUTTING "BANG"
6520 REM C = AMOUNT SPENT ON CLOTHING
6530 REM C1 = FLAG FOR INSUFFICIENT CLOTHING IN COLD WEATHER
6540 REM C5 = YES/NO RESPONSE TO QUESTIONS
6550 REM D1 = COUNTER IN GENERATING EVENTS
6560 REM D3 = TURN NUMBER FOR SETTING DATE
6570 REM D4 = CURRENT DATE
6580 REM D9 = CHOICE OF SHOOTING EXPERTISE LEVEL
6590 REM E = CHOICE OF EATING
6600 REM F = AMOUNT SPENT ON FOOD
6610 REM F1 = FLAG FOR CLEARING SOUTH PASS
6620 REM F2 = FLAG FOR CLEARING BLUE MOUNTAINS
6630 REM F9 = FRACTION OF 2 WEEKS TRAVELED ON FINAL TURN
6640 REM K8 = FLAG FOR INJURY
6650 REM L1 = FLAG FOR BLIZZARD
6660 REM M = TOTAL MILEAGE WHOLE TRIP
6670 REM M1 = AMOUNT SPENT ON MISCELLANEOUS SUPPLIES
6680 REM M2 = TOTAL MILEAGE UP THROUGH PREVIOUS TURN
6690 REM M9 = FLAG FOR CLEARING SOUTH PASS IN SETTING MILEAGE
6700 REM P = AMOUNT SPENT ON ITEMS AT FORT
6710 REM R1 = RANDOM NUMBER IN CHOOSING EVENTS
6720 REM S4 = FLAG FOR ILLNESS
6730 REM S5 = "HOSTILITY OF RIDERS" FACTOR
6740 REM S6 = SHOOTING WORD SELECTOR
6750 REM S8 = VARIATIONS OF SHOOTING WORD
6760 REM T = CASH LEFT OVER AFTER INITIAL PURCHASES
6770 REM T1 = CHOICE OF TACTICS WHEN ATTACKED
6780 REM X = CHOICE OF ACTION FOR EACH TURN
6790 REM X1 = FLAG FOR FORT OPTION
6800 END

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