



SURVIVAL PAPER #SP92-7

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GUIDE TO STOCKING SURVIVAL SUPPLIES

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A GUIDE TO THE NUMBER OF CANDLES TO HAVE ON HAND

NUMBER OF PEOPLE	1 DAY	1MNTH	2MNTH	3MNTH	4MNTH	5MNTH	6MNTH
1	1.0	30	60	90	120	150	180
2	1.5	45	90	135	180	225	270
3	2.0	60	120	180	240	300	360
4	2.5	75	150	225	300	375	450
5	3.0	90	180	270	360	450	540
6	3.5	105	210	315	420	525	630

This analysis is subjective and is based on my personal criteria which is listed below.

Out of 24 hours, you sleep 8 hours. This leaves 16 hours awake. During the winter there is approximately 11 hours of light. 16 hours – 11 hours of light = 5 hours that you are awake when it is dark. Each candle burns 8-9 hours by actual test and by Cresson H. Kearny. The ratio of 1.5 candles per 2 people per day is based on the theory that the 2 people will not be together at all times. This theory is expanded with the increased number of people for the same reason. This analysis is also based on the theory that you will not be able to use any other source of light, i.e., curtains will be closed, you will not use oil lamps, you will not use Coleman lamps, and you will not use flashlights. Of course, if any of these other sources of light are used, then the number of candles you will want to have on hand will vary. The number of candles required per day is the variable that you may want to change to suit your needs. The higher the per-day number, the greater number of candles you will need per month. Keep in mind that the psychological need for people and light will be greater in the early days of your existence. This will group people together. However, as time passes the number of candles needed may be greater as people begin to take care of their work or responsibilities.

The reusing of the candle wax into new candles should be considered as a method of perpetuating your supply. However, each time you burn a candle you lose some of the wax. Eventually you will burn all the wax and you will not be able to make new candles without a new supply of wax. Do not forget a supply of cotton string must be kept on hand for the wicks.

YOUR CRITICAL NUMBER OF CANDLES TO HAVE ON HAND IS _____

YOU HAVE ON HAND _____

TOOTHPASTE/ YEAR/ PERSON

NUMBER OF PEOPLE	1MNTH	2MNTHS	3MNTHS	4MNTHS	5MNTHS	6MNTHS
1	0.5	1	1.5	2	2.5	3
2	1.0	2	3.0	4	5.0	6
3	1.5	3	4.5	6	7.5	9
4	2.0	4	6.0	8	10.0	12
5	2.5	5	7.5	10	12.5	15
6	3.0	6	9.0	12	15.0	18

You can use this chart to guide you in stocking tubes of toothpaste for any period of time for any number of people. EXAMPLE: You have 8 people that you want to stock for and you think that you should have at least a 15-month supply on hand. How many tubes of toothpaste should you stock?

First look at the column people. The column only lists 6 people so you will have to use a combination such as 3+5, 4+4, any combination that equals 8. For this example we will use 3+5=8. The time frames are in months and only go up to 6 months; however, like the number of people, you can use any combination that equals the number of months that you want to stock for. In this example we said we were going to stock for 15 months. In this case we will use 6+6+3=15 months.

For three (3) people for 6 months, the number of tubes is 9. Using the same process gives us 6 more months which total 12 months (9+9=18). We now have to figure for 3 more months (4.5 tubes) which will total 15 months. You have now figured how many tubes are needed for 3 people for 15 months = 22.5 tubes.

We now have to calculate in the same way for the other 5 people:

For 5 people for 6 months = 15 tubes
 Using same figure, 5 people for 6 months = 15 tubes
 For 5 people for 3 months = 7.5 tubes

Now total all the tubes: $22.5 + 15 + 15 + 7.5 = 60$ tubes of toothpaste are needed for 8 people for 15 months.

This test was conducted over a 68-day period by the author using an 8.2 oz. tube of toothpaste. For ease of figuring, the 68 days was reduced to 60 days and a month is considered 30 days. The test was conducted by brushing my teeth twice a day, in the morning and in the evening, prior to going to bed. These results, as with the other test results, are only a guide. However, keep in mind that generally most people use water to brush their teeth and unless you have an unlimited supply, this could cause you some problems.

A GUIDE TO THE NUMBER OF ROLLS OF TOILET PAPER TO HAVE ON HAND

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	4	8	12	16	20	24
2	8	16	24	32	40	48
3	12	24	36	48	60	72
4	16	32	48	64	80	96
5	20	40	60	80	100	120
6	24	48	72	96	120	144

This analysis is subjective and is based on my personal experience and criteria which follows:

In conducting this analysis, I used a roll of toilet paper that was purchased in bulk from the Price Club. The paper is biodegradable. It is suitable for normal septic systems, according to the label. It consists of 450 2ply sheets or 1139.1 sq.ft. Each sheet is 4.5" x 4.5".

I used one roll of the above-described toilet paper. Being at home only part of each day, I found that a roll lasted me 8 days. I got 18 uses out of it. For ease of figuring I said a roll lasted me 1 week. If you are going to be holed up, no pun intended, you may feel that you will not get a week out of one roll. Additionally, if you have small children, they may waste more than an adult. If you use toilet paper for such things as blowing your nose or wiping up something that is spilled, a roll won't go as far. Things like this must be taken into consideration when you are establishing the number of rolls you need.

Use this as a guide only. That's its intended purpose. Good luck!

SUGGESTED GUIDELINES FOR STORING HAND SOAP

These guidelines are based on an actual test using a 150-gram bar of Zest Soap. The recommendations are based on the following information gathered in the test.

From the 150-gram bar of soap, 13 showers and 25 washing of the hands were accomplished. The period of time over which this took place does not enter into the test. The test was designed to determine how much use one bar of soap would provide.

I assumed that 6 hand washings were equal to one shower. $25 \div 6 = 4$; additional showers for a total of $13 + 4 = 17$ showers from a bar of soap. In a survival situation, it's assumed that a person would only be able to take one shower a day. Therefore, $365 \text{ days/year} \div 17 = 21.4$ bars of soap required for one year for one person. If you divide 21 bars/person/year by 12 months, the answer is 1.75 bars of soap required for one person for one month. Taking one shower a day, the 1.75 is rounded off to 2 bars.

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	2	4	6	8	10	12
2	4	8	12	16	20	24
3	6	12	18	24	30	36
4	8	16	24	32	40	48
5	10	20	30	40	50	60
6	12	24	36	48	60	72

If other uses of soap are necessary, or heavy use of the soap is necessary, then you will want to revise the numbers to suit your needs. Along with the reduced number of showers, you should have on hand anti-bacterial or antiseptic agents, such as rubbing alcohol, witch hazel, etc.

GALLONS OF WATER NEEDED PER MONTH FOR DRINKING PER PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	15	30	45	60	75	90
2	30	60	90	120	150	180
3	45	90	135	180	225	270
4	60	120	180	240	300	360
5	75	150	225	300	375	450
6	90	180	270	360	450	540

The following extracted from Nitro-Paks Catalog:

DEHYDRATED MILK
100 LBS/YR/PERSON 8.3 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	8	16	24	32	40	48
2	16	32	48	64	80	96
3	24	48	72	96	120	144
4	32	64	96	128	160	192
5	40	80	120	160	200	240
6	48	96	144	192	240	288

DEHYDRATED VEGETABLES
60 LBS/YR/PERSON 5 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	5	10	15	20	25	30
2	10	20	30	40	50	60
3	15	30	45	60	75	90
4	20	40	60	80	100	120
5	25	50	75	100	125	150
6	30	60	90	120	150	180

DEHYDRATED EGGS
9 LBS/YR/PERSON .75 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	0.75	1.5	2.25	3.0	3.75	4.5
2	1.50	3.0	4.5	6.0	7.5	9.0
3	2.25	4.5	6.75	11.25	11.25	13.5
4	3.0	6.0	9.0	15.0	15.0	18.0
5	3.75	7.5	11.25	18.75	18.75	22.5
6	4.5	9.0	13.5	22.5	22.5	27.0

FATS AND OILS
10 LBS/YEAR/PERSON 2 LBS./MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	2	4	6	8	10	12
2	4	8	12	16	20	24
3	6	12	18	24	30	36
4	8	16	24	32	40	48
5	10	20	30	40	50	60
6	12	24	36	48	60	72

SALT
8 LBS/YEAR/PERSON .75 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	0.75	1.5	2.25	3.0	3.75	4.5
2	1.5	3.0	4.5	5.0	6.5	7.0
3	2.25	4.5	6.75	9.0	11.25	13.5
4	3.0	6.0	9.0	12.0	15.0	18.0
5	3.75	7.5	11.25	15.0	18.75	22.5
6	4.5	9.0	13.5	18.0	22.5	27.0

BAKING POWDER
3 LBS/YEAR/PERSON .25 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	0.25	0.50	0.75	1.0	1.25	1.5
2	0.50	1.0	1.50	2.0	2.5	3.0
3	0.75	1.5	2.25	3.0	3.75	4.5
4	1.0	2.0	3.0	4.0	5.0	6.0
5	1.25	2.5	3.75	5.0	6.25	7.5
6	1.5	3.0	4.5	6.0	7.5	9.0

SUGAR NITRO-PAK
60 LBS/YEAR/PERSON 5 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	5	10	15	20	25	30
2	10	20	30	40	50	60
3	15	30	45	60	75	90
4	20	40	60	80	100	120
5	25	50	75	100	125	150
6	30	60	90	120	150	180

FREEZE DRIED MEATS
18 LBS/YEAR/PERSON 1.5 LBS/MONTH/PERSON

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	1.5	3.0	4.5	6.0	7.5	9.0
2	3.0	6.0	9.0	12.0	15.0	18.0
3	4.5	9.0	13.5	18.0	22.5	27.0
4	6.0	12.0	18.0	24.0	30.0	36.0
5	7.5	15.0	22.5	30.0	37.5	45.0
6	9.0	18.0	27.0	36.0	45.0	54.0

BAKING SODA
1 LB/YEAR/PERSON

PEOPLE	1 YEAR
1	1 (LBS)
2	2
3	3
4	4
5	5
6	6

YEAST
1 LB/YEAR/PERSON

PEOPLE	1 YEAR
1	1 (LBS)
2	2
3	3
4	4
5	5
6	6

RECOMMENDED AMOUNT OF DEHYDRATED FRUIT TO HAVE ON HAND

(THIS IS BASED ON NITRO-PAKS RECOMMENDATION OF 30 LBS/PERSON/YEAR, AND IS GIVEN IN POUNDS/MONTH)

PEOPLE	1 MONTH	2 MONTH	3 MONTH	4 MONTH	5 MONTH	6 MONTH
1	2.5	5	7.5	10	12.5	15
2	5.0	10	15.0	20	25	30
3	7.5	15	22.5	30	37.5	45
4	10.0	20	30.0	40	50.0	60
5	12.5	25	37.5	50	62.5	75
6	15.0	30	45.0	60	75.0	90