

WH 641.5 Ben

ty day receipts and remedies including homesteader hints.





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Printed By
Reporter Printing and Supply Co.
Billings, Montana

REMARKS FROM THE AUTHORS

The collaborators of this abbum have pursued the profession of sining colloy in the western states for the past seventeen years. During this time 1800's. Rost of the times contained herein were acquired from the old times who were reared in these gold and silver camps of the selly down best. To pold and silver camps of the selly down best.

relayed to us in years past. Many unforgettable hours were spent in discussing and listening to their reminiscence of the old days in the mine camps. We sincerely wish them "more rocks in the box".

The Chost Town Menu was written by Mary Bishop of Virginia City, Nevada. A copy of her rendition was given to the authors in the 1950's.

Those sections pertaining to remedies and household-

Those sections pertaining to remadies and householder hints of a medicinal nature are included solely for the readers' interest, and are not recommended for application.

Jack and Sarah Benham



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PREFACE

Didgs ever hear of Sourdough, Bannocks, or Willow Leaf Tan? Could you make a jelly jar, drinking class, or candle holder out of a whiskey bottle? Have you ever exodered how people treated their aches and pains and acquired the needs of everyday living in the old days?

The following pages note a smattering of the receipts, resedies, howested hints and just plain folk-lore which were commonlace in the early days of the West. In many areas of the Rocky Mountains, some of these practices still the result of the warrows and sundant the result of the various and sundant localized by the scale of the various and sundant localized herein.

The explorers, fur trappers, mountainmen and gold prospectors quickly utilized Indian food, clothing. shelter, trails, and medicines in order to survive the rigors of the western wilderness. The pioneer family duced. Early womenfolk brought certain refinements. (Some ol' timers contend that things haven't been the same since!) Initially, meals were prepared in fireplaces with a minimum of cooking kettles and utensils. later, conkstoves were often transported west with each family. The pippeer family ate venetables and rossts, where only a short time previously, mountainmen ate pemmican or jerky. Storage cellars contained foods which were dried, cold packed, and canned. Vegstable. flower and herb cardens became an important part of each household, as they provided food, medicine and ornaments. Flowers were often dried and preserved as "pretties" to brighten up the interiors of the Home



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A GHOST TOWN MENU

The Spectral Arms, located on the corner of RIP and DEAD END Streets, in the chost town of Virginia City, Newade, welcomes you to meals that are out of this world.

Truly superb culinary cremations fashioned by our chef with great skull and accompanied, of corpse, by the finest of wines, spirits and biers. Haunting music by Spook Jones and his real gone band. Dinners nightly from the Groaning

Soup Du Nu!

Clammy Chowder

Medium Rare Chost Beef, in its own supernatural juices
Grilled X Bones Cold Turkey with Giblet Gr

Genuine Liverherse with Stiffed Potato
Corned Beef Ash
The above are served with Mummy Spectral's delicious hairraising biscuots and home-groan vegetables - fresh as the
seaning dew - from the Spectral Arms' private plot.

hrouded Lettuce Salac

...

Ice Screams and Spookies

Turnovers Apparition (no calor

...

offin or Tea

Our skeleton staff will shadow you with attention. Lunch with us in the Belfry-Room--onoo, such rattling good food. Drink in our quaint old Wraithskeller. Have a wail of a good time and be sure to float back soon.

"We cater to no Bodies."

- Mary Bishop



PONDER HEADACHE
To cure common miner's silment caused by breathing powder smoke, a small bottle of ammonia was carried and sniffed at the first sign of headache. Fresh grapes or grape juice was also believed to help relieve pain. Fresh air is best

MINE CARP MODCH
Mis up large crock of sourdough starter, Place in warm
corner of cabin, Allow to work and liquid to rise to top
for about 3 or 4 days, Pour off liquid and drink, Potion
is potent! This was used in remote mining camps from the
Yukon to Yugon in the warly days.

EXPOSE portion of cider cask to heavy freeze. Bore hole

in unfrazen partion of the cask and drain off liquid. The strength will have been increased manyfold and the liquid will make good mixer for box socials!

MINE CAMP COOKERY

PARSOLICO SACON

This was a fevorite receipt of prospectors and miners
who desired to vary their monotonous diet of plain fried
bacon or salt pork, Parbeil bacon or salt pork for a few
minutes. Roll meat in flour and fry. Drippings make good
soo.

WILD GREENS
Poke saled, lambsquarter, or miner's letture were mixed
with vinegar and skillet drippings for seled. Wild onlons
were gathered for greens
and for boiling with

DAMDELION SALAD Cut and wash tender leaves of dandelion plant. Mix with wild onions or garden vegetables, if available. Add vinegar mixed with brown sugar and skillet drippings.



Cover dried fruit with four fingers of water. Stew for several hours. Pour off juice and sweeten with sugar. Boil juice again to produce syrup for biscuits or hot cakes.

Knead sugar and raisins into lump of sourdough, Bake covered in skillet or dutch oven. Early prospectors used gold pans for baking.

SOURDOUGH TWISTS Add sugar to sourdough and cut into strips. Make into

twists and fry in deep fat. Real crowd pleaser!

Melt fat in pan - add flour. stir and slowly add mixture of cup fat or lard sugar, vinegar and water, Boil

until thick. Add to pie crust Pies were also made from green grapes,

Mix the flour and lard together with the fingers. Add

enough water to make handling easy. Next, clear all ore specimens and samples off the table and brush loose, crumbling rock dust onto floor. Spread flour generously on table top. Roll out dough and cut to fit pie tims. Fill with fruit or berry filling and cover with too crust. Cut slits in top pastry to prevent filling from boiling over in over. Makes four bio pies.

This was carried by mountainmen and prospectors when the weight of food had to be reduced or when permican was not available. Parch two pounds of corn. Grind fine. Mix with equal amount of sugar. Ration per meal - one tablespoonful



PROSPECTING HINTS

LODE VETNS Some gold minerals are: Native cold (placer nuccets



The dollar value of the cold in a vein does not necessarily increase with depth.

Gold veins generally decrease in dollar value with increasing depth. Exposed veins which are barren will not necessarily

contain valuable minerals beneath the overburden. The width of gold bearing veins generally decreases with depth.

Not all minerals of a vein or outcrop are subject to leaching.

Valuable cold deposits are not always marked by prominent outcrops.

Conditions favoring the development of a gold deposit in one area may not do so elsewhere.



PLACERS

Do not allow grease in gold pan as an oil-water combination will float off fine gold. If gold pan is used for cooking, wash with soap

Do not use mercury in gold pan to pick up fine gold. If necessity requires this to be done, burn off pan to remove any mercury droplets which may remain in the rust oits.

when daing a stole box, Long Tom or California Rocker, do not allow carpet or riffles to become overloaded with heavy minerals or else fine gold may be lost downstram.



When reasting amalgam (gold and mercury) do not breathe fumes as mercury poisoning will occur. Reast amalgam button outdoors where no contamination is possible. Best to use re-

Beware of false bedrock in stream bottom. Richest gold deposits will be found in fractures and crevices of the true bedrock. When working gravel bars, attempt to concentrate in zones of abundant, black mannetite sands.

Panning and washing of sand and gravel bars will reveal gold in very small quantities. One thousandth of one per cent gold can be detected with ease. (This is equivalent to 0.3 troy ounces of cold to the ton of sand and gravel.)

Flour gold cannot be recovered profitably by any known means. Do not rely upon fire assays alone to evaluate a placer deposit, as the gold may not be recoverable by washing methods.



Placer deposits named after women appear to return a good dollar value. (Any woman's name will do, as the placer doesn't know one from t'other!)



Throw steel traps in creek for several days to wash off human scent, When setting, handle with clean gloves.

Hides are best when an "R" is contained in the mame of the month in which the animal is laid to rest.

Boots must be clean when traps are being set out. If traps are dug into ground and covered with leaves, scatter and carry off excess dirt for at least 200 feet from traps.

When skinning out coyetes, bebcats or lions, save the urine from the bladder of animal. Bottle and use as scent to attract similar animals to trap area.

A strong beit attrahent can be made in the following manner: Cut up, grind or dice whole fish. Tie in cloth sack high in tree during summer to ripen. Remove bait and sprinkle sparingly in the area. Odor will draw coyotes and behocats from miles around.

Coyotes, bobcats and mountain lions can sometimes be poisoned by killing a deer or cow and treating the carcass with strichnine. Not foolproof, as many wild animals have the ability to reqursitate food if it appears to be tainted.





Bannock is well known as a trail bread. It can be prepared quickly and provides the outdoorsman with a delect-

1 Thap, baking powder 2 Thap, melted fat

1 tsp. salt Mix well and add enough water to make a medium stiff about half an hour or until dough rises. Fry batch slowly. for ten minutes. Prop the pan near the fire so it will continue to bake by reflection. When it is colden brown and a

splinter inserted in the center comes out clean, it's done.

1 cup sourdough starter tsp. salt

1 Thep, sugar

Enough flour to make a

Mix above incredients and spread in greased skillet. Bake over fire for by reflection, until done.

Either of the above receipts can be made into an excellent dessert by the addition of raisins, brown sugar or

Prepare stiff bannock dough as above, but instead of baking in heavy frying pan, stretch dough out lengthwise so

by turning the stick.





Sourdough cooking is like eating Chinese food - when it's good, it's the best,

1. To a crock half full of water, add a handful of sugar. Stir in flour until batter is as thick as can be stirred. Cover and set in warm place. Within 48 hours or less it will become sour and increase to twice its

2. Mix one pint of flour and one tablespoon of sugar in sourdough crock. Stir in one and a half cups of water, and beat until smooth. A tablespoon of vinegar is often added to the dough. Cover with a loose lid or cloth and put in a warm place until batter bubbles and sours. (Usually about two or three days.)

3. Mix one cup of flour to one cup of milk in an open crock. Mix well and cover with cloth. Store in warm area until it is bubbly. (Two to four days.) Increase amount of starter by adding flour and warm water.

Mix two pounds of sugar to one pound of flour. Add water and mix well. Cover with cloth and put in warm place. It will ferment of its own accord and can be used as

BRAN YEAST STARTER

Steep bran in water in sunny place. Allow to ferment and sour for about two weeks. Strain off coarse cloth, Allow liquid to settle. Add water and pour off discolored residue. Use residue as starter with flour.

If starter is not used every day, "feed" weekly by adding flour and water.



Settlers often made their own dry yeast cakes instead of using sourdough for leavening. Dry hops were boiled with mashinos made from two or three boiled potatoes. To this

was added a cake of yeast from the last batch made, Plenty of corn meal was added to make a thick dough. This was then rolled out to one half inch thickness and cut into two inch squares. These were placed in the safe and allowed to dry slowly. A two weeks supply was conerally made up each time.

YEAST CAKE BREAD Into a large bowl crush one yeast starter cake into warm water. Add sufficient flour to make a thick batter. Cover and place in warm area to work (rise) overnight. Add flour

Add a little baking soda if yeast

or sourdough has become too sour. HOT CAKES. "FLAPJACKS" Add flour to sourdough starter, allow to rise and work, Put aside two cups for sourdough jug. To remaining sponge, add sods and salt. Thin batter with mater. Allow to stand in warm area until bubbles form. Spoon batter onto hot

oriddle. Set at night: 1 cup starter, 2 cups warm water, and 23 cups flour. Beat well, cover and let set 'til morning, In

morning put aside for sourdough igg. 2 cup starter. To remaining batter add: 1 tap. salt 2 Than, melted butter or fat

Than, sugar 2 eggs, beaten 1 tsp. soda



SOURDOUGH CORNERSON 1 cup starter d cup melted fat 2 cups milk tap, salt 2 Thap, sugar 2 eggs Mix thoroughly and pour into a preased cast iron frying pan. Bake and serve hot.

SOURDOUGH MUFFINS d cup milk + cup melted fat 1 000 + cup supar 1 cup serviceberries, well 1 tsp. baking soda

+ cup sourdough starter Stir all inoredients just enough to mix. Bake in well oreased muffin tins.

Sourdough biscuits were known as the staff of life to trappers, prospectors, cattle drovers and settlers.

For sourdough biscuits, set starter the night before. Next morning (after taking out a start for sourdough out). add a teaspoon of sods, one tablesoon super, one tablespoon salt, one half-cup melted fat, and add enough flour to make a stiff dough. Mix well and set aside to raise. Let rise about an hour, turn out on well floured board and knead until smooth. Pull off small chunks of douch and shape into rolls. Place in oreased pap, let rise one hour and bake.

After kneading, biscuits can be cut out with a cutter (empty can works fine), rather than shaped with hands.



POTATO YEAST BREAD
Soften to cake of yeast in the cup warm water. Let stand about one-half hour. Add 1 3/4 cups warm potato water, the cup mashed potato and 2 tap, sugar. Cover and let stand over

ernight in warm place until bubbly.

Mext morning and 3 Tops, selled fet, 2 Thops, supar, 2 tap,
melt and 3 cups flour. Best smooth and set amough eore flour
kneed until smooth. Place in mere greased boad and grease
surface of dough. Cover and let fise in warm place until it
has doubled in bublk. Punch down in boad, cover and again
let rise until double is houlk. Divide dough and shape into
double in bubk, Bace, seed earn, Cover and let rise until

CALT DISTAC ODE

Seald 2/3 cup milk. Add t cup freshly ground corn seal. Beat, cover and let stand overnight in ware place. Next day batch will be spongy and bubbly. Add t tap, aods to two cups ware water. Add enough flour to make a thick batter. Add to corn-seal sponge and beat well. Put in pan of ware water until light and full of bubbles. Punch down.

Mix jeup shortening, i Tbsp. selt, 3 Tbsp. sugar and 2 cupp boiling water. Let stand until lukewearm. Add to the sponge and best well. Add more flour to make stiff dough. Turn out onto floured board and kneed well for sbout ten minutes. Divide into three parts, shape into loaves and place in greased pare. Stuck hope with selted grease and let set



BISCUITS

BEAT BISCUITS

tsp. baking powder

1 tsp. salt 1 Tbsp. sugar

1/3 cup shortening 1 cup water

I cup water mix fixed powder, salt and sugar. Cut in short-ening and add enough water to make a stiff dough. Knead well and turn out onto board. Beat with hub wrench or rolling pin until dough blisters and is smooth. Keep folding dough in a round ball while beating, Roll out to ½ inch thickness and

cut with cutter. Bake on greased baking sheet.
Milk should never be added to baking powder biscuits.

DA BISCUITS

2 cups flour 1 tsp, baking powder

tsp. soda 1 tsp. salt

1 cup sour cream
Mix dry materials together. Add cream to above ingredients to make a soft dough. Turn out on floured board and
knead a little. Roll out to \$\frac{1}{2}\$ inch thickness. Cut and bake

on greased pie tin.
TRAIL BISCUITS
4 cups flour

2 tsp. baking powder 2 tsp. salt

or tumble lard into dry ingredients. Add water to make a stiff dough. Orop by spoonsful onto greased tin. Bake till nice and brown.





2 cups flour

tsp. vinegar Crumble lard into flour. Mix remaining ingredients and add to flour mixture. Beat like batter. Turn out on wellfloured board and knead. Roll out and line pie tin. Bake in hot oven. This never fails!

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Dissolve one cup sugar in one and a half cups milk. Add a little berry juice to color and flavor it. Stir in enough snow to give desired consistency. Dry, powdery snow makes the best ice cream,

MOLASSES TAFFY Boil two quarts of molasses, stirring constantly. Cook until small amount dripped from tip of spoon into cold water can be formed into hard ball. Cool. Grease hands and pull a handful of taffy until it will form into sticks. Cut and store on greased paper in cool place.

BREAD PUDDING Soak cold biscuits in wars water, add raisins and sugar. Mix well into jelly-like mass and pour into greased skillet

or dutch oven and bake. (Good may to use left-over breads.)

Bear fat from adult bear is very rich and must be mixed with lard to mellow it. Cub fat is just right. The finest pie dough is said to be made from the freshly rendered fat of a bear cub which



has been killed during time wild, sweet Mix bear fat with flour and water and roll out. Use freshfilling, Bear fat was highly prized by early homemakers who set a real fine

1 pound chopped sugt (usually from head or neck) 8 cups chopped apples 2 pounds raisins tablesoppn salt 5 tablespoons mixed spices 4 cups sugar + cup apple cider Cook meat in large kettle until quet melts. Add all other ingredients. Simmer entire concoction until it has a rich. dark color. Will make about

four large pies, or can be canned in jars for later use.

pies.

SON-OF-A-CUN-IN-A-SACK 1 cup chopped beef sust

1 cup molasses 1 tsp. soda Mix all ingredients together. Spoon the mixture into

sack and tie securely. Boil in deep kettle of water for about three hours. Serve with hot sauce as follows: Roil two cups water and three tablespoons butter together. Stir in one-half cup brown sugar mixed with a little flour. Remove from fire and add as much whiskey as your conscience will allow!

Apples, peaches, apricots, raisins and plums were some-

times dried and stored for off-season use in puddings and

SETTLERS' POTATO CAKE g cup butter or lard Add the following milk and flour mixtures: 1 cup sour milk 1 tsp. soda

2 cups flour

2 tsp. baking powder

bake.

1 tsp. cinnamon tsp. each of cloves and nutmen

d cup chopped nut meats Add 2 eggs and mix well. Pour into greased cake tin and

2 cups crushed corn 1/3 cup nelted fat 2 Thep, flour Add egg yolk to milk, corn, flour and shortening. Fold

in beaten egg whites. Bake until firm. NATURAL SWEETENERS

Some of the natural sweeteners which were available to

Buffalo berries Honey Service berries (also called sarvice berry, june berry,

INDIAN PUDDING Corn meal and molasses were cooked together slowly with the addition of raisins or other dried fruit.





Bear meat is best cooked as pot roast, with wild

DEMNICAN

Buffalo, venison, elk or bear may be made into pemmican, although buffalo is preferred and most widely used. Using lean mest only, cut in thin strips or sheets and hang to dry in sun. When cured, place sheets on stretched hide and thoroughly beat to a fine mass of powder and fibers between flat rocks. Render down bone marrow and fat. Add 50 pounds hot, melted fat to each 50 pounds

meat. Mix well and add available sweetening for flavor. Buffalo berries, chokecherries or service berries added. Pack mixture in buffalo stomach or well-cured hides. Mass will cool and harden to penmican and will last for years in storage. JERKY (BUFFALO, BEAR, DEER, ELK)

Jerky was used by Indians, mountainmen, prospectors and pioneers. Slice meat thin, (strings or slices) usually from rump. Dip quickly in pot of boiling salt water. Season with pepper and allow to dry over slow, smokey fire for place. A handful of jerky will carry a hunter for one day.

SALT PORK A barrel of salt pork weighs about 200 pounds. Often, it was par-boiled, rolled stirring a spoonful of flour into grease

MAKING GELATIN

Boil ground bone and cartilege in water. Save gelatin for fellies and broths.

BASTING MEAT

When roasting meats, always have fat side up. As the fat melts, it will keep the roast from drying out and make it more palatable.

SON-OF-A-GUN STEW Heart, sweetbreads, tongue, brains, or liver (any meat

available) should be chopped fine into kettle and covered with chopped vegetables - potatoes, carrots, corn, tomatoes, onions, or whatever is on hand. Cover the whole with water and boil slowly. Improves with age. Reported to be very good if you're real hunory!

PICKLING IN BRINE

To pickle 200 pounds of pork, you need: 14 pounds salt

pound salt petre
4 pounds coarse brown sucar

4 pounds coarse brown sugar 2 quarts molasses

1 pint beer or vinegar Plus enough water to dissolve the salt. Peppers, allspice and cloves may be added to flavor the mest.

BEEF AND DUMPLINGS
Slowly simmer thumb-size pieces of beef fat in pot until
tender. Pinch off dime-size pieces of sourdough bread batter
and drop into pot to cook for a few minutes. To thicken, add
a little flour and water mixture to contents of oct.

STEAKS
Comboys required steaks to be pan-fried in beef fat. not

SOP (THICK GRAVY)
After frying steaks using suet for grease, remove steaks
and add three tablespoonfuls of flour, salt and pepper, then



PIONEER HAM LOAF

1 pound fresh pork tsp. mustard cup bread crumbs 2 eggs

Mix and pack in salt sacks. Boil two hours in water which contains & cup vinegar.

OVTATI CTCH

1 Tbsp. melted beef suet 6 carrots
2 cups water 1 Tbsp. flour

1 tsp. salt

2 Tbsp. cold water

Brown oxtains in suet. Add salt, mater, cover and simmer until tender. Add pealed, cut-up carrots and onions and cook another half hour. Make paste of flour and water and slowly stir into mixture. Continue condition until orany is

CORNED BEEF

Rub mest with salt and maltpatre. Put in crock with a few garlic cloves, 7 Dmsp. sugar, 2 Dmsp. ziekling spice and rock salt. Add mater to cover, cover crock and let stand about three weeks. Every five days, remove mest, sit brine, both three weeks. Every five days, remove mest, sit brine, both three weeks. Every five days, remove mest, and in the cover of the cover

WILD TASTING MEAT

Soaking wild game meat overnight is salt water helps to eliminate the "wild, gamey" taste.

Adding a little vinegar when boiling or roasting tough meat will help tenderize it.

Beef suct added to wild game, improves the flavor.

OVER-RIPE MEAT

Rub slightly spoiled meat with a mixture of soda and salt and rinse well with cold water. If it is not too "ripe" it will still make good eating; in fact, it will be even more tender than ever.



The best coffee is made by starting with cold branch coffee per cup (plus one for the pot). The addition of eqq boiled to desired strength, remove from fire and add a few drops of cold water to settle grounds. Many cooks prefer to boil coffee in an old sock.

COFFEE SUBSTITUTES

When coffee supplies ran out and the old grounds which had been " carefully saved, had been rebniled many times, substitutes became necessary. Beans, peas, barley, corn. dried potatoes, rye, wheat, toasted sugar were some of the substitutes commonly used. Woe be to the homemaker or cook who ran out of coffee!



Maidenhair fern, cherry bark, sage and thyme were often used to brew tea.

TRAIL TEA

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Zippy flavor could be added to the regular brew by adding a few pine needles to the tea pot.

Indians made tea by boiling buckleberries.

Let berries stand 24 hours in vinegar. Drain off liquor. Repeat three times. Add one pound lump sugar for each pint of juice. Place pot or stone jar in boiling water. After boiling for ten minutes, bottle. Makes refreshing drink when diluted with water. Having and harvest grows would appreciate this treat.



CIDER MAKING Gather apples, wash well and sort out the wormiest ones. Put through cider press. Pour juice into jugs, cork and store in cool place. Be sure to remove corks daily to release pressure which builds up due to fermentation. Care must be taken when removing corks or it might blow up in your face! For mulled cider, add brown sugar, stick cinnamon and serve hot.

VEGETABLES &

Roasting ears were boiled in pot with husks and silks ears in coals which have been raked into shallow pit or to



To fry oreen corn, first cut corn off cob with knife. Season with milk or butters or fry with nork or bacon fat: or remove pulp from kernels by slitting center of each row of kernels and scraping out pulp. Fry pulp in skillet with bacon orease, salt pork or butter.

LYE HOMINY

Boil shelled corn in a weak lye solution until the kernel covering can be easily removed by rubbino between the hands. Remove corn from lye solution, wash several times with cold water. Put in crock and store in cool place.

Hominy was usually fried in fat or boiled with milk and butter. It can also be simmered in water and served with bacon grease or pan drippings as a substitute for butter.

VEGETABLES OF THE FRONTIER SETTLER Beans, peas, squash, pumpkins, radishes, mustard, lettuce, carrots, beets, onions, turnips, cabbage, potatoes, cucumbers, sweet potatoes, melons, tomatoes, spinach, collards and corn were grown,

Wild onions, lambsquarter, poke salad, dandelions and several varieties of dock grew wild and were used as oregos. These were boiled with selt





Pumpkin was cut in bio rings and allowed to dry in sun.

Dried slices were used to make soup and molasses. It was also prepared by soaking overnight, par-boiling and frying it in butter or grease. It was then sprinkled with cinnamon and brown sugar. Pumpkin butter was made from rine

To change dist of boiled beans to fried beans, soak the beans overnight. Next day, pour off the water and allow to drain. Cover bottom of skillet with & inch of fat or bacon grease. Fry beans as you would potatoes. Cover and stir

COLD FACTS ON POTATOES

Always start old potatoes in cold water; new potatoes

Always boil potatoes in their jackets or skins. Don't soak peeled potatoes in cold water for extended periods of time. Rock salt is preferable to table salt in potato water.

NATIVE VEGETABLES The pioneers and settlers developed variety in their

meals from a few basic items. Among the native vegetables used weres



PICKLES & RELISH

8 DAY PICKLES peck small cucumbers, cut in 6 or 8 pieces.

Cover with: 2/3 cup selt. Pour boiling water to cover. Let stand

overnight. Drain and add:

allon vinegar Thep, dry mustard

4 Thap, salt

Alum - size of walnut 1 stick ginger root

Measure 8 cups sugar, and add one cup of this super each morning. Store in crock in which they were made in a conl place.

CHILT SAUCE

2 pecks tomatoes 4 small, hot, red peppers

Chop fine and add: 2 cups pickling salt. Let stand one hour. Put in a cheese cloth bag and drain overnight. Scald and cool:

8 cups vinegar Add the following to the above mixture and pour vinegar

2 tablespoons mustard 1 teaspoon cloves 2 tablespoons cinnamon 8 cups sugar Bring to a boil, pour into fars and seal while

CORN RELISH

18 pars sweet corn 6 stalks celery 4 onions, chopped

2 oreen peopers, choosed 1 small head cabbage, chopped

1 cup flour 2 quarts vinegar

t cup salt 2 cups supar tsp. each, cayenne, turmeric, mustard Cut corn from cob and put in large

kettle with cabbace, celery, onions and penpers. Mix remaining incredients and add to pot. Simmer this concoction for about 3/4 of an hour. Pour into fars and seal im-





16 hard-cooked eggs 3 cups white vinegar

1 tsp. salt 1 cup water

Pickling spices (Do not use mustard, as it will cause

discoloration of eggs.) Shell eggs and put into hot, sterilized fars. Cover with boiling pickle liquid. Seal. In three or four days soos will be ready to eat.

Rind from one watermelon (cut in cubes)

2 Thap, allapice

t cup whole cloves 8 cups sugar

Before cubing rind, trim green skin and red meat off Put cubes in large crock. Salt lightly and cover with cold water. Let stand overnight. Next morning, drain and wash. Put alum in large kettle of boiling water, add rind and cook until tender. Drain and wash well. Tie spices securely in cheesecloth and boil in mixture of sugar and vinegar until thick and syrupy. Add rind and cook until liquid is clear. Remove from stove and let stand overnight. Next morning. pour off syrup and boil. Put rind in jars and cover with boiling syrup and seal.

QUICK RELISH

cup vinegar



Pack cold, raw food in jars with lids on loosely. Put fars on a rack. lower of boiling water. Jara cooking vessel. The water should come about an inch above the tops of the fars. Cover kettle tightly and bring to a boil again, Aftof time, remove jars and seal immediately. This method works well for most



Partially cook food and pack at once into hot, sterilized fars and seal completely. Process in large kettle of boiling water, same as for cold-

Fire up stove and wait until oven is just warm, about 250 decrees. Arrance filled fars on rack, two inches apart so air can circulate freely. After processing period has been reached, remove jars from oven and seal, if they were not pre-sealed. This method is advisable for fruits and acid vecetables, only.

DRYING BERRIES AND FRUITS

Wash berries or fruits thoroughly and spread on wire mesh or lattice in full sun. In bad weather, they may be spread out on tray over the stove or near fireplace. Fruit should be turned daily to allow for free air circulation. When dried, store in containers with tight fitting lids. Will keep for years. When ready to use, soak in water for



A LEXICON OF COMMON WINES MADE BY THE PIONEERS

RUIT WINES
Apple wine Pear wine
Appricot wine Plum wine
Crape wine Prume wine
Wild cherry wine Raisin wine
Peach wine Shubarh wine

Peach wine Rhubarb wine
FLOMER WINES
Clover-flower wine Marigold wine
Cowalip wine Mint wine

Dandelion wine Rose-hip of CEREAL AND VEGETABLE WINES Barley wine Potato win

Table beet wine Pumpkin wine Carrot wine Wheat wine Parsnip wine

Y MINES
Blackberry wine Current wine

An old favorite receipt for RHUBARB WINE:
5 pounds rhubarb pound raisins

1 gallon branch water 1 pound grapes 3/4 pound suger 2 tablespoons sourdough starter Pick rhubarb stalks in cool of the morning. Cut into 2

Pick rhubarb stalks in cool of the morning. Cut into 2 inch lamphs, and place in crock of suitable size for the practical stalks and the stalks of the pour into crock. With suitable smoden mallet, mash rhubarb to a puls. Sit med mash daily until 8 days have lapsed, the stalks and the stalks and the stalks and the stalks. And the stalks have been considered that the stalks and the stalks are stalks. And the stalks are stalks and the stalks are stalks. The stalks are stalks.





ROSE HIPS
Rose hips are very high in vitamin C and make good jems and jellles. The Indians pounded rose hips into their permitten. The hips can be gathered any time after the first frost, of idea and stored in air tight containers until need-

ed.

MSS-HIP ILLY

Sash two cups of rose hips thoroughly and remove ends.

Bush two cups of rose hips thoroughly and remove ends.

Bush two cups in the cup of water. Make a
jully lass of chesseleth and strain siture in this over
ship julca to these of apple - and bell together for tan siture

utas. Add two cups super and continue boiling until it begine to jall. Pour at once inte het, sterling dars and

ROSS-HIP JAM
Cather two cups of ripe rose hips, Mash well and renove ands. Simer gently in four cups water until soft,
Wash crab apples and cook to a pulp. Combine and put through
colander to remove seeds. Measure pulp and add one cup sugar
for each cup oulp. This combination greatly improves the



Brush teeth with finely pulverized charcoal. Many prefor fine, white wood ash. A splintered stick end makes a Ground comfrey root is also good for brushing teeth.

A mixture of one part oil of cloves and one part creo-

Kill fat coose and remove down from neck. Carefully slit goose neck to remove neck hones. Wran or tie neck skin and meat with fine twine. Hang to dry in shaded area to preserve grease. Allow baby to suck and chew dried neck during teething to lessen pain.

Mix one teaspoon salt and one teaspoon baking sods with hot water and gargle solution several times daily for sore

SORE THROAT

Spearmint tea, spikenard tea, and tea made from May-Heat goose grease and turpenting. Dampen clean sock

Put a few drops of kerosene on a spoon of super and swallow.

Suck horehound drops, swathe neck in red flannel which has been soaked in warm, camphorated oil. Daub neck with warm bear orease and oirdle with rubber

Drink solution of garlic, brown sugar and rose water. Drinking hot rum spiked with our powder is very help-

Sniffing pine oil will also help relieve distress. Eating raw onions will speed recovery, as onions are

COIDS

Boil dried horehound leaves until tea becomes strong. Add three cups sugar for each cup and a half of tea. Boil until syrup thickens. Whiskey may be added in small amounts. Bottle and take a teaspoonful several times a day to cure cough. (Guaranteed to improve spirits!)

of large pea.

Drink boiling hot horshound, lemon or ginger tes mixed with honey. Cover patient with quilts and blankets in order to awest poisons out of systems.

Make a tea from this year's spruce tips and drink as hot as possible. Wormwood, boneset and hemlock tea are all

CORN SHIEK TEA Boil ten corn shucks in water for 30 minutes. Drink the brow straight. Good for colds, headaches.

Cut off plug of camphor ice the size of thumb end. Tie camphor in small cloth bag. Hang bag on string around nack next to chest. Vapors will penetrate lunc membranes and prevent winter colds. Replace camphor when reduced to size

For chest colds, mix one tablespoon turgentine with two Apply red woolen for warmth.



UNITARO PLASTER

For pains or cold in chest, mix one part mustard, one part flour with enough warm water to make a paste. Cut to

part floor with enough were water to make a paste. Cut two places of cloth to same size and sandwich the paste between cloth layers. Gresse chest and apply plaster. Allow plaster to remain until skin reddens. Reduce mustard concentration for children, Apply several times daily.



EARLY SETTLERS' GARDEN HERBS
Sage
Savory
Fennel
Horehound
Dil
Marjoram
Tan

Rosemary Chives Tarragon Dill Tansy

CHILDREN'S AILMENTS
Cathip tea was administered to children for a number of

MOSEBLEEDS
Place cold compress on nose, back of neck or under low-

or jaw. Tie loop of string on index finger of right hand. Pretty soon, bleeding stop.

Dissolve salt in hot mater and apply solution to wound.

INDIGESTION

Burdock roots were brewed and the tea drunk for attacks of indigestion.

GOLDENSEAL A brow made from goldenseal was kept on the back of the stove most of the time so snyone who desired could take a sip of it any time. This is very helpful for stometh end

intestinal disorders. (Good for almost everything.)
YELLOW JAUNDICE
Yellow jaundice was treated with powdered licorice root
tes. Brew slowly and drink as hot as possible.

AIR CLEANSER To purify cabin air after sickness, close all doors and windows and burn sulfur candles for eight

CONGESTION
To clear nasal passages and to free congestion in lungs, breathe steam from a pan of boiling water to which camphor has been added. Avoid cold drafts.



"EASY TO TAKE" CASTOR OIL

Add maple syrup or molasses in
equal parts to castor oil to disguiss taste. Take a deep breath,
pinch both nostrils, and swallow
large tablesponful of mixture.
Let out air.

"REALLY WORK 'EM" LAXATIVE
1 pound prunes
1 pound figs
1 pound raisins

1 cup raw bran
Chop fruit fine and mix with bran. Press into shellow
pan and cut into squares equal to one tablespoon. Mrsp and

store in cool place. Take one square daily.

Strip leaves and twigs off chokecherry bush. Boil and drink liquid to cure dysentery. Crow's foot was also thought to relieve dysentery.

KIDNEY TROUBLE CURATIVE

Boil maternelon seeds in mater. Allow to cool and settle. A large draught of this will cure trouble in no time. Bearberry was slao used as a diuretic.

DRUG PLANTS OF THE HOMESTEADER Foxglove (digitalis) Belladonna (deadly nightshade) Aconitum (monkshood)

Artimisia absinthium (wormwood)

PREVENTION OF DIAPER RASH
A small amount of corn starch applied to the skin of

prickly heat. Dispers were always souked in 20 fuls Team Bores solution prior to bolling.

babies and small children will prevent disper rash and

WARTS

Cut raw potato in half and rub over surface of wart. Say three times, "Go 'way, go 'way, go 'way," Bury potato and wart will disappear shortly.

When warts make their appearance they may be removed by paring them on top and applying a small amount of acetic acid to the summit of the wart, using a camel's hair brush. Care must be taken that none of the acid nets on the surrounding skin. To prevent this, wax may be placed on the skin during the operation, or an old kid glove may be used. the wart being allowed to project through. Repeat acid application until wart disappears.

Smear lard or grease on skin around wart. Apply dilute nitric acid with match stick to surface of wart several times daily until wart disappears.

A wart will soon disappear if a drop of castor oil is placed on it several times a day. Also, treat before retiring at night.

SKIN BLEMISHES Treat blemishes with a mixture of eight parts of fresh rendered lard to one part

SALLOW, MUDDY SKIN Add one ounce of olycerine and two drachms of iodide of potassium to one

pint of rain water. Bottle and cork solution. Apply with sponge once a day to improve color

Use mixture of one-half pint of lemon juice and one-half pint of buttermilk. Apply to face and neck daily. Skin will soon whiten.

Add one wine glass of fresh lemon juice to one pint of rain mater. Add ten drops of otter of roses. Mix and keep in well corked bottle. Use once a day to whiten skin.

Tan can be removed by using lime water and lemon juice.

To soften and relieve chapped hands, use axle grease, coal tar, bear lard or beef tallow. Bear lard is preferred by the womenfolk.

FONICS

A tea made from skullcap served as a good tonic for the nerves.

Sulfur, molasses and cream of tartar tonics make very one teaspoonful of molasses and add a little cream of tartar.

Take daily until creek thaws. SUMMER TONIC

Honey and vinegar were mixed and taken to keep the blood clear.

GENERAL TONICS One quart of whiskey added to a two quart jug containing sarsaparilla roots, wild cherry bark and other roots and herbs was used to tone up the appetite and improve

Iron deficiency may be solved by sipping and water.

Teas for puniness were made from: sage, pennyroyal, ginger, sarsaparilla, beef, rhubarb, horehound, blackberry root, oak bark, and pine needles. It does not pay to be nunv!

SPRING FEVER AND CHILLS Sassafras bark and roots were conbined with prickly ash bark to make a tea. Drink a teacupful before breakfast from April through August to "start the day right and

ACHES AND PAINS OF ARTHRITUS Remove inner bark from willow trees. Boil bark in enough water to cover. Add more water and boil several hours. Pour off water and bottle. Take aches and pains as needed.



Crushed plantain leaves were considered good for this The following were often applied to felon (boil) to draw it to a head, or to any wound, sore spot, blister or bruise: 1. Stale bread soaked in hot milk. Wrap in cloth and apply to felon. Replace two or three times daily with fresh

mixture. Repeat as necessary. 2. Flaxseed, scraped beefsteak, hot salt, mustard, poke root were also used in poultices.

One handful of dried couchip mixed with one handful of dead, dry, white bark of cottonwood. Reat couchip and bark together on flat rock or on old tree stump until materials are fine as flour, Mix bear, gooss or alk grease to make thick salve. Apply thick poultice to infected wound or sore and surrounding area. Remove after three or four days and repeat until sore has healed, using freshly prepared mixture each time.

Mix one quart of warm water, one-half cup baking soda and one tablespoon of vinegar and apply solution twice daily to open sores.

BRUISES AND ARRASTONS

Smartwagd steeped in vinegar will aid in reducing bruises, To reduce swelling and inflamation, mix goose grease, nutton tallow, gizzard oil, bear grease, or snake oil with camphor or turpentine and apply to swollen or inflamed area.

CUTS AND WOUNDS Wash wound in turpentine. Dab wound with spider web to staunch bleeding.

Oil of wintergreen applied to aching joints will offer



Yarrow tes was given for malaria,

An infusion of willow bark was given in large doses to fever patients. Seneca spake-root was used to make a tea to relieve colds, fever, and "pains in the bones,"

Make a tea of sage. Add a few pine needles. Drink as hot as possible.

AGUE (CHILLS) Wild horehound, sweet gale, and the leaves and roots of stramberry plant were brewed and taken as remedy for aque.

REMEDIES FOR SHAKES AND CHILLS The following plants were used in making teas given for shakes and chills:

THE "JITTERS"

Steep one tablespoon oranulated skullcap herb and one teaspoon resemany leaves in a pint of white wine. Take one tablespoonful three times a day and at bedtime.

PHELIMATTY. To one pint of boiling water add a pinch of capsicum. two tablespoons of white vinegar, three tablespoons of wild ground wild cherry, one teaspoon ground comfrey root, and

one-half teaspoon butterfly root. Let stand one hour, then strain and take frequently in small doses. The berries, bark and roots of prickly ash were conconted into a remedy for rheumatic complaints.



INSECT BITES AND STINGS
Mix one tablespoon baking sode in sufficient water to

make a paste. Treat insect bite or sting as often as needed with this.

For stings, after applying paste of baking sods and water, wound may be sucked. Follow with application of

To prevent mosquito, gnat and fly biting, rub exposed skin with bear greese. Insects no like 'est'

akin wit

POISON INY Sweet cream applied to eruptions as often as possible will quiet them down.

RING WORK

Burn Hammermill bond paper in sauce dish. Rub salvelike residue on ring worm. It will soon be opne.

SNAKE BITE

Wound is often cauterized with hot iron. Two pints of whiskey drunk immediately - cut across wound - go to bed.

MAD DOG BITE (HYDROPHOBIA) An old (1877) chemist's manual denotes the following cure for hydrophobia:

Cauterize wound with nitrate of silver. Mix 9 grains of powdered, dried leaves of zanthium spinosum with water. Take thrice daily. Children should take one half dosage. Repeat treatment for three days.

Some folks feel the only course to follow in case of mad dog bite is to rush patient to closest "granny" owning a madstone. Apply stone to bite and allow it to pull out poison by magnatic influence. A true madstone will release tits magnatic influence and fall to the floor when all onison



INFECTION

Hot pitch and turpentine compresses used to reduce infection.

1. Burn sulfur candles in closed room to kill diseases slow fever (typhoid). 2. Place hat poker in block of camphor qum. Fumes will kill diseases. 3. Mix one pint of slacked lime with two querts of water

and wash area thoroughly with solution.

MANGE

Mix rancid lard or bacon crease with coal oil and rub
into infected areas of animals delly. Axle grease often
used in lieu of rea.

chicken lice.

To kill lice on humans, apply coal oil to hair. Wash hair next day and repeat within seven days. Wash thoroughly the bedding and allow to sun for full day.

Glycerine diluted with rose water will remove dandruff.

The first indication of chilblaines is itching sensation of the feet. Avoid getting feet wet. It is also claimed that chilblaines can be cured by bathing the feet in water in which potatoes have been holief

FROSTBITE, BURNS
Rub light burn or frostbite with freshly cut potato to
relieve pain.

Scrape Irish potato finely and spread on gauze, good and thick. Apply over burned area. Cood for third degree burns, causing healing from the inside out, without scabs forming which draw and make scar.



Equal amounts of lime water and raw linseed oil should be applied to burned skin. Cover with loose bandage to permit air to circulate freely around the burned parties of akin

For minor burns, apply cold compresses immediately (or plunge burned area in snow if convenient) to prevent blisters from forming. This also helps reliave

INDIAN REMEDIES

SACERRISH OF BUIL SACE

SAGEBRUSH OR BLUE SAGE
Tea brewed from sage leaves and blossoms made a good

PUFFBALL
Puffballs were gathered, dried and stored for treatment
of wounds. They stopped bleeding and helped to prevent infection. Puffballs were used by early settlers, as well as
by Loddsey.

SWECT SUMAC

A two made from the leaves and roots was drunk for dropsy
and to relieve painful urination. A lation was sometimes
prepared from the berries for the treatment of smallpox. The
dried berries were also ground and dusted on the body for
smallpox.

DANDELION
A toa made from the roots was taken for colds and chest pains.

WILD IRIS OR BLUE FLAC Bulbs were powdered, mixed with water or salive and applied to the inner ear for earache. Sores and wounds were also treated with the mixture. The bulbs were also good

for treating stomach troubles.

WILD GERANIUM AND WILD PLUM

Boil root of wild plum and drink brow to cure flux. Wild

Boil root of wild plum and orink orew to cure flux. Wild geranium leaves were used to make a tea which was taken for diarrhea.

Kidney disorders were treated by eating the stew prepared from the berries, or by drinking a brew steeped from the roots of juniper. The dried leaves were often ground and the powder applied to sores and wounds.

BALSAN FIR Brow balsam pitch and drink liquid for colds and chest problems. Pitch chewed to clean teath and to cure sore threats. Wounds and sores also coated with pitch to reduce infection and hasten healing.



GOLDEN WILLOW AND CHOKECHERRY

Inner bark of golden millow was steeped and the liquid taken to treat chest aliments, coughs and colds. Chokecherry bark was browed into a tea which was taken for diarrhea.

WHITE PINE

WHITE PINE
Remove inner bark from young trees. Pound bark until
well shredded. Apply as a poultice for wounds and sores.
Tas brewed from inner bark was taken for chest pains. Tea
brewed from young pine tips also used in treatment of scurvy.

I INDEN TREE

For punctures, removing splinters, wounds, best the bark of linden root on stone and boil well. Bathe wound with this coze. Boil down to a jelly and apply as a poultice, Use moss for bandage and wrap all around with elm bark,

DAK AND PRICKLY ASH

For disorders of lungs and intestines, boil bark and disorders of his tea. The inner bark layer of prickly ash was rubbed on gums and infected tooth to relieve tooth ache. The bark and roots were also utilized to cure colic and rheumatize.

HEMLOCK, SPRUCE AND WILD CHERRY Tea made by boiling bark and leaves of hemlock spruce was used to treat scurvy. Wild cherry bark was brewed and sipped to purify the blood, and to cure diarrhem.

SLIPPERY FLM

Tes made from inner bark was a good lexative. Also good for swellings and sores. The inner bark was chewed to relieve coughs and colds.

MOUNTAIN BIRCH AND RED CEDAR Boil down fruiting bodies

Boil down fruiting bodies and leaves of red cedar and drink to relieve coughs. Steep inner bark of mountain birch and drink liquid for colds, coughs and chest problems.



Tea made from the flowers of the elderberry was taken

Indians made too from buffalo berries which was taken

STINGING NETTLES AND HEADACHE WEED A tea brewed from stinging nettle roots was taken for

kidney troubles. Headache wood leaves were browed and the

RATTLESNAKE WEED AND SPEARMINT A tea brewed from rattlesnake weed leaves and roots was

given for snake bite. Spearmint leaves were chewed to re-

Fever was treated by plastering skin with leaves of this

Bloodroot was dried and powdered and used to treat rheu-





Where no mills were available to grind grain, it could be softened in the following manner: Parboil orain or corn in weak lye solution. Wash orain with cold water and dry before fire. Heat will burst skin. Place grain in bag, tie and heat until bran comes free and can be separated and sifted. Roil for several hours. Fat as much

To crock or stone jar add 6 ounces saltpetre and } pound sugar to each 32 pounds butter. Pour brine over it to depth of 2 inches. Press cover down after covering with white cloth. Butter will keep for two years.

FCC DRESERVATION

1. Pour a solution of one part sodium silicate and nine parts cold water over eggs which have been placed in crock. Completely cover eggs. Will preserve eggs for six months. 2. Salt down fresh eoos in crock or kee and store in a cool, dry place. Salt each layer so that adjoining enoshells do not touch.

CREAM SWEETENING To remove taste of cows eating objectionable feed, add a little saltpetre to cream.

STARCH FROM SCRATCH Grate white potatoes. Stir in cold water. Strain this through cloth. Add more water, drain off discolored solution leaving white residue at bottom. Dry in sun and store in paper bags.

Another method for making starch for clothes is: 4 Tbsp. cornstarch 1/3 cup cold water 1 quart boiling water



of water is necessary. No sponge is required. Rainwater is preferred. Use the hands, the same as you do upon the face. Use plenty of soap, and wash quickly so as not to take a chill. In the daily bath all the crevices of the ear should be thoroughly cleaned and the wax carefully removed, whenever it shows itself.

MILADY'S HAND INTION

Take a chunk of citric acid the size of the largest finger (or substitute a little fresh lemon fuice) and dissolve the acid in a little boiling water. Mix with three punces of glycerine and 20 drops of rose water. Shake well, use often. Makes hands smooth and soft. It is well to remember that the hand that is beautiful from idleness is to be

MID-WINTER HATR-WASH During spells of cold weather, hair can be dry-washed with corn meal, Massage scalp (thoroughly with meal and remove by vicorous brushing. Excess oil will be absorbed by the meal. (Meal should then be thrown out.)

HAIR CARE

Baldness is avoided by keeping the head cool. It is doubtful that hair dyes are ever advisable.

BALSAM HAIR CONDITIONER

Put balsam fir needles in container and pound with rock to extract the oil. Cover with water and leave overnight. Next morning, strain liquid into a container which can be sealed and stored until needed. Aft-

er washing and rinsing hair, rub a little of the balsam conditioner into the hair and rinse again. Tresses will shine!

BEAR GREASE HAIR DIL

Bears were hunted in the fall to replenish fat or orease larder for miscellaneous purposes, as well as for cooking. Bear orease waterproofs boots, softens rough hands, makes a good throat rub and is excellent for use as hair oil.





WORK IS THE CURSE OF THE DRINKING MAN. DRINKING THE MORK IS THE CURSE OF THE BARMAN.

DRINKING MAN'S SNAKE REMEDY

Drink one-half pint of whiskey upon rising. Keep eve peeled for snakes throughout day. Drink one-half pint of whiskey before retiring. Repeat daily in case snakes appear. (I have drinking uncle who has followed this practice daily

for twenty years and hasn't been bitten yet!)

Swallow large spoonful of castor oil. Follow by taking large draught of strong tea or other beverage to wash down oil. Keep outhouse path clear of cows. doos, and chickens.

THE BREATH

Offensive breath may arise from the stomach, teeth, the lungs, or nose and throat infections. A few orains of cassia buds, coffee, cloves, cardamon seeds or allspice may be chewed to eliminate offensive breath.

Another breath freshener can be made by mixing } ounce of powdered sugar. + ounce vanilla. + ounce powdered charcoal, 19 ounce powdered coffee and 9 ounce oum arabic. Make

into pellets of 18 orains and take six a day. Use of a mouth rinse composed of 1 ounce rose water and 1 orain permanganate of potash, is helpful in sweetening the breath. Rinse mouth with this concoction every three hours.

1880 ADVICE TO A YOUNG MAIDEN

Above all, no lady should ever permit an intemperate man to court her. She may reform him, but the chances are manyfold that such a union will completely ruin her life's happiness. Single, independent maidenhood is a thousand times better than for a woman to trail her life in the dust, bringing poverty and disorace on her offspring by uniting in matrimony with a man addicted to dissipated habits.

PREVENTION OF LAMP SMOKING Soak lamp wicks in vinegar and dry well. This will keep lamps burning sweet and bright.

CANDLESTICK MAKING
Tie coal oil soaked twine around center of quart whiskey
hattle. I jobt string and always battle is and the

bottle. Light string and plunge bottle in cold mater. Bottle will crack where string was tied. Bottom half can be used for jelly jar or drinking class. Rub cut edges on sandstome to smooth. The top half makes a good candlestick, Hot iron rino is sometimes used instead of coal oil soaked string.

LIGHTING SUPPLIES
When candles or oil lamps were not available, lighting supplies consisted of pitch, fat pine knots called "candle-wood", or simply lard in a saucer. Real amokers!

CANDLE MAKING

There were two types of candles - tallow dips and solded candles. Candles were made in the autuen, when tallow
was rendered from bed or autton. Well doen tallow in proportion of one-third tallow to two-thirds water. Tallow will
rise to too and can be strained through Flanmel over a cal-

ander.

Another method of rendering tallow was to add small bits
of fat to pot with just senouph water to prevent surning.

For the pot with just senouph water to prevent surning.

Booliad down. Screpps of fat large fat for the strained were not wested, but sat saide for soop crosses.

Lard alone is too soft to make cancles. One part of lard was often mixed with three parts of beef or worten must, to see that the contract of the service of the service

TEMPERING LAMP CHIMNEYS

If chimney glasses are placed in cold water and gradually brought to a boil, then allowed to cool slowly, they will

melted lard.



POTATO STORACE PITS

Potatoes are best stored thirty bushels at a time. Pit
must be covered with two feet of dirt to keep out frost.
Place straw in pit to cushion potatoes. Ventilate with a
wooden flu at one end of oit to cermit oasses to escape.

Potatoes will keep all winter in this manner.

DYEING
Smartweed and goldenrod flowers were used for yellow coloring. Summac blossoms and walnut husks made brown. Vineaar often lightens reds.

RNITURE STAINS
Light brown stain was made by mixing two pints of water

with two ounces of strong lye.

Brown stain was made by mixing two pints of water with three ounces of washing sods. Oark brown stain was concocted by mixing one pint of

three ounces of washing soos.

Dark brown stein was concorted by mixing one pint of water with two and one-third pints ammonium hydroxide.

Cray stain could be made by mixing two pints wineper with one-half ounce of iron neils. Allow meils to work in vinces I 4 hours or more. Pour off rust.

REMOVING RUST STAINS To remove rust stains from clothing, rub with lemon juice and salt and dry in the sun.

STOVE POLISH
A superior stove

A superior stove polish was made by mixing one nunce of resin, one quart of turpentine, one-fourth ounce of lamp black and one quarter pound of powdered craphite. A little vinear sided to the blacking solvion will keep it from burning off. Bettle mixture. Dampen rag and rub black iron portions of stove. Best applied to cost stove, Really

AXLE DREASE
Magon wheels required constant greasing to prevent annoying squeak and overheating. Prepare axle grease by mixing four pounds of hot, melted tallow with one pound of graphita or fine, black lead. This is usually carried in a



BACKMOODS BAROMETER
There occurs heaviest rainfell three to five days after

the new and full moons.
Beware of severe winters when leaves on the trees remain

Deep snows expected when high off the ground hornets nests abound.

BEST FISHING WHEN:
1. Barometer is rising or high.

 Moon is between new and full.
 The moon is between the astrological signs of Cancer, Pisces or Scoraio.

LUNAR PLANTING Waxing and waning of the moon is best for fastest germination. Plant seeds two days prior to full moon except during first full moon following Easter, when seeds may be sown with

TREE DIGGING

Match almanac for right signs
to dig trees for transplanting, Alsays mark north side of trees before
digging, When tree is replanted, make
free digging, all the right right side of the north. Protect roots

STRENGTH OF ICE A two inch thickness of ice will support the weight of a man.

Four inches will support a man on horseback, five inches will support a fully loaded wagon and team. Eight inches will support a battery of heavily loaded wagons and horses attached.

Ten inches will support a Texas herd of longhorns.



GRANDMA'S LYE SOAP
Take fat scraps and lye and boil
together. Lye made by pouring
water over ashes and letting it
drip into container.

to harden and break into small pieces.

To aske lye, wood ashes were saved, herdwood sche were prenot make good lye. Fat rinds,
drippins, crease and bolish-dan
drippins, crease and bolish-dan
bloadly, mough sop are med at
one tise to last a year. Bones the
quality of the sop, The bones etc
quality of the sop, The bones etc
quality of the sop. The bones etc
quality of the sop, The bones were
added to sech barrel of sahes to neutralize cetain salts,
and the law of the sop, the sop, the sop
and the sop and the sop and the sop
trough. The sixeli in the sahes and disolved with water,
than the lye beneam deep red to the fath water.

COLD SOAP

Boil lye and greene. Twelve pounds of greene were used to make a barrel of noff samp, or three pounds to a pail to make a barrel of noff samp, or three pounds to a pail the lye has absorbed its quote and more lye can be poured in. For noff samp, resource well as when contrasts forms clear sches and tealve pounds of greene would produce forty pounds of samp. Urposting and sail were also added in minute and the pounds of samp. Urposting and sail were also added in minute as

mixture, it was ready! Boil with grease until firm. Allow



\$2

BOOT GREASE

Heat beeswax and suct together until melted. Warm boots

by the fire, then rub grease in thoroughly, es-

pecially along stitching, to keep feet dry.

WATERPROOFING MOCCASINS

Mix bear grease and pitch together and
hat alowly over fire, stirring well with a
stick. Remove from fire. Stir some more while it cools.

Rub this into moccasins all over to keep mater out BUTTER COOLER On marm days when butter melts readily, put a crock over butter dish upside-down and pour a bit of cod! water over the crock seyeral times during

ECC HIMTS To boil a cracked egg, add salt to water to keep the white from leaking out of the shell. Always cool boiled eggs immediately in cold water to make shelling easier.

the day and butter will remain firm.

SCORCHED POTS
Mix a little baking soda and water in burned pots and pans and let soak awhile. They will then clean up easily.

REDUCING BACKHOUSE ODDRS
A lard can filled with wood ashes was often
kept in the outdoor latrine so a cupful of the
ashes could be poured down every week or so to keep odors

MOTH REPELLENT

Morewood and cedar were used to line garment storage lockers and closets to keep moths away.



REROUNC FEATHERS FROM FOUL
When plucking the
senters of ducks; onesblescome of soft scop
speciation of boiling
plunged sto this solsolution the sater still be able to penetrate the feathers.

Feathers can then be rolled off.

RAT POISON

Mix lard and sugar into stiff dough, Roll into pills
the size of little fingernail. Roll in fresh chicken blood.
Make small hole in pill and load with strichnine. Place in

door frames.

Mood ashes can be made into a thin paste and rubbed on face and arms to reduce insect biting. White ashes can be easily removed with water. Fine clay from river bank is often mixed with ashes to thicken paste.

Green firewood smoke is offensive to flies, gnats and mosquitoes.

The fumes from a hot branding iron held against a block

of camphor gum will repel pasky insects.

Smoke from a small smoldering fire of dried buffalo chips was widely used by prairie travellers to repel mos-

INSECT DECGY

Tie a five to six foot willow branch to rear of wagon or buggy. Tie white streamer, six inches wide and one foot in length, to top of branch. Pesky insects will be attracted to



water. For lilacs, first pound the stems with a hanner to break down the fiber. Then plunge stems into boiling water for about twenty minutes, take out and put into cold water. They days. Tulips will last much longer if an Indianhead penny is dropped into

the water. DRYING FLOWERS

Straw flowers are an old favorite for drving. The procedure is simple and success is quaranteed. When cutting, the stems blossoms can be fully or partially opened. Remove all foliage and tie flowers together in bunches to be hung upside-down in a dry. dark place. These will make long lasting bright colors. Most varieties of everlastings can be dried in this manner.

Flowers were sometimes dried by burying them in dry sand, stems down, and arranging close together, but not touching. Sift enough sand into container to completely cover flower heads. Cover and let stand in dry, shaded area. Check periodically to determine if petals are stiff and firm. This will usually require several weeks.

LANGUAGE AND SENTIMENT OF FLOWERS Bachelors' button - Hope, blessedness.

Blue Bell - Constancy. Buttercup - Riches. Carnation - Pure and deep love. Columbine. Red - Anxious and trembling. Garden Daisy - I share your feelings. Rosebud - Confession of love. Sunflower - False riches. Sweet Pea - A mesting. Tulip - Declaration of love. Violet. Blue - Faithfulness, Zinnia - I mourn your absence.



HIDE PREPARATION With hair - Stretch oreen hide in shade. On fleshy side rub in fresh buffalo offal with fine clay. Keep hide damp for several days. Wash hide, rub in fresh brains until hide becomes dry, soft and pliant. Wash again in water mixed edges. When hide is sufficiently dressed, hang up and smoke,

Without hair - Cover hide with ashes. Soak in water trough until action of lye slips bair off bide. Pull and scrape remaining hair off hide. Rub in fresh brains until hide is dry and soft. Wash with bran and scrape until hide is soft. Hano hide up and smoke.

The hair was removed by soaking hides in water to soften them. Hides were then heaped in piles in heated room until hair became loose. Hair was then scraped off, using milk or lime to aid removal. Hides were put in tan pit, alternated with strips of oak, hemlock or alder bark. Pit was filled with water and hides were left to soak for several months. Rubbing hides with bear oil or tallow made them soft and



HIDE PREPARATION (INDIAN)



Stretch and peo hide, hair side down, on ground. Scraps of fat and tissue still adhering to hide are removed by short blows of sun for a few days. Scrape inner surface of hide to uniform thickness. Hair can be removed by scraping or by beating with rock.

Soft tanning accomplished by rubbing a mixture of brains and fat into hide. Smooth stone used to uniformly distribute oil and fat into hide. Place hide in sun to dry, saturate with water, and roll into bundle. Hide must be re-stretched, due to shrinkage.

Skins used for clothing were often smoked

over a specially prepared smoldering fire for several hours. The smoke imparted a rich, brown color to the bides, as well as a smokey odor. Hides prepared in this manner repelled moisture and would not become stiff after prolonged exposure to rain and snows. The smokey odor also repelled mosquitoes. quats, and deer flies. Smoked hides were worn for everyday and the natural orey hides were stored and worn on special occasions.

Skins were kept clean by rubbing them with fine clay. White clay was used on white or orey skins and vellow clay was used on the everyday smoked ones. The clay was moistened and rubbed on the inside and outside of the clothing. This was followed by a thorough rubbing with a smooth bone and then allowed to dry. This would remove dirt, while restoring their original color.

Dried herbs and sweet grasses were packed with stored clothing to impart a pleasant odor to them.

Hides were softened with a smooth stone which was used to rub them, or by sewing the hides back and forth around an upright or inclined pole, or through a twisted rawhide loop.



ADVICE ON MATTERS OF HEALTH

Allow for necessary amount of sleep. Avoid feather beds. Sleep in parment not worn during the day. To maintain robust health, sleep with a person as healthy as yourself, or no

If inclined to stomach disorders, avoid mince pies, sausage and other highly seasoned foods. Don't eat too freely of souns; better to est food dry enough to require natural saliva to moisten it. If there is a tendency to overest, partake freely of rice, cracked wheat and other

easily dinested foods. Fat olenty of fruits and avoid excess amounts of mests. Maintain regular esting hours. Est slowly, thoroughly masticating food. Don't wash food down with continual drinking at the table. Tell your funniest stories while dining and for an hour afterwards. Don't engage in strengous mental

INFLATION OF LUNGS

Each morning, after dressing, spend 5 minutes in open air inflating lungs by inhaling as full a breath as possible, and pounding the breast during the inflation, to greatly enlarge the chest, strengthen lung power, and ward off consumption.

CLEANL INESS

Have always a quart of water in sleeping room. In the morning, wash face and entire body with wet hands. Cold water will not be disappeable when applied with bare hands. Wipe dry immediately and follow with a brisk rubbing over the entire body. The whole operation should not take more than 5 minutes. This brings the blood to the surface of the skin and makes it circulate throughout the body. The pores of the skin have been opened, allowing impurities to pass off. You have given yourself a good vigorous morning exercise. Pursue this habit recularly, and you will seldom take cold.





WEAK EYES To improve the eyesight, put one ounce of leaves of rosemary in one cup of brandy and let it steep for three days. of this solution with four of plantain water. Warm the whole teaspoonful in the eye once a day, allowing it to flow hetween the eyeball and the lid.

Gradually decrease the amount of water till you have equal proportions

The color green is easier on the eyes than bright red or white. (Note the natural green of the landscape around us.) Avoid bright light and always allow the eyes to adjust gradually from dark to light.

The condition of the mind greatly influences the gener-

al health. Be hopeful and joyous. To be so, avoid business entanglements that may cause perplexity and anxiety. Keep out of debt. Live within your income. Attend church. Mix in jovial company. Do as nearly right as you know how. Thus conscience will always be at ease. If occasionally disappointed, remember, there is no rose without a thorn; that the darkest clouds have a silver lining; that sunshine follows storm; and beautiful spring follows the dreary winter. Do your duty, and leave the rest to God, who doeth all



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