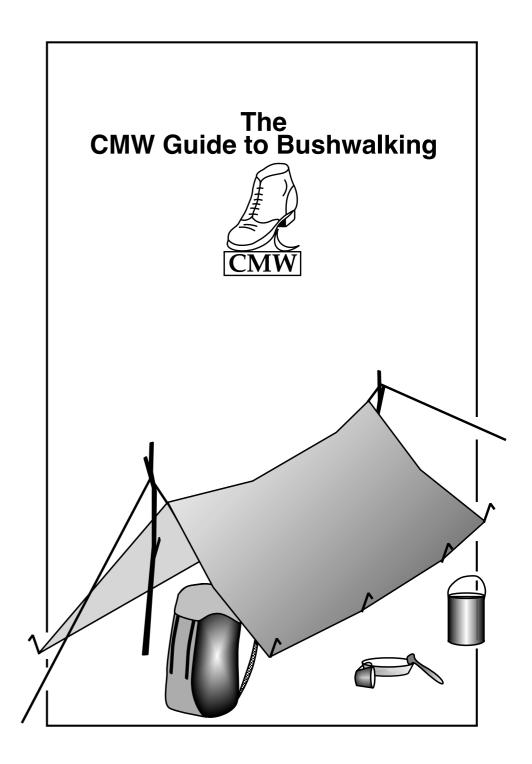
Clothing

Worn while walking Shorts or long trousers (not jeans made of cotton) Shirt (long sleeved) Sandshoes or boots Socks Gaiters Hat (wide brimmed) In your pack Parka Thermal jacket/jumper Thermal underwear Socks Sunglasses and case (if the walk is in the Snowy Mountains) **Toiletries** Toilet paper Lip sunscreen Sun cream Soap Face towel or Chux towelette (not a towel—it's too heavy) Toothbrush Toothpaste Dental floss Mosquito repellent If it's not on this list, do you really need it? For a weekend walk your fully laden pack should weigh between 9 and 11 kg.



Checklist

Welcome to the CMW

and to carry out rubbish) Two or three plastic bags (to store wet/dirty clothing Matches and fire starters in waterproof container П Тогсћ Compass (s)qsM 🗌 First-aid kit Water bottle (at least 1 litre) Cutlery (plastic spoon and fork, small metal knife) (plastic) ☐ Billy Stove (if fires are not permitted on the walk) Teeping mat or 'Thermarest' (a plastic sheet 1 m by 2 m) Ground sheet if you have a fly Tent or fly, pegs and poles Sleeping bag liner (obligatory with club bags) Sted Snideols 🗌 Pack liner (garbage bag) 🗌 Ъяск General -juəmqinbə Always check with the leader whether you need any special mittens or an air mattress, that are required on some walks. walk. It does not include anything specialised, such as This checklist includes the things you need on a typical

The Coast and Mountain Walkers of NSW is really just a group of people who love the bush. Each weekend, we go in small groups to visit a few of the thousands of beautiful peaks and rivers in the Sydney region.

Bushwalking is a means to many ends—to enjoy

bushwalking is a means to many ends—to enjoy wildflowers, to paint, to take photographs, to read good books by places, to paint, to take photographs, to read good books by

We have produced this booklet to:

- Explain the technicalities of going on a club walk.Give a few tips about equipment and food needed on a
- Give a few tips about equipment and food needed on a typical walk.
- Point out the rules of responsible bushwalking.

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Grid north versus magnetic north

As mentioned earlier, there is a small difference between magnetic north and grid north. If you need maximum accuracy, you align the alignment arrow with magnetic north rather than grid north. The difference between the two 'norths' is given on each map because it varies from region to region—for the Blue Mountains, magnetic north is typically 12° east of grid north.

Magnetic North

Thus, when working from map to compass, first set your Grid North compass using grid north, and then rotate the dial towards magnetic north. In the example, the reading of 292° would be reduced to 280° in the Blue Mountains.

Conversely, when working from compass to map, first set your compass using magnetic north, and then rotate the dial *towards* grid north. In the example, the reading of 220° would be increased to 232° in the Blue Mountains.

Practise!

By now you are probably totally confused. But don't worry —instead, take this booklet, your compass and the appropriate map on your next walk.

Going on a walk

Don't worry if you haven't done any bushwalking before. There are no special requirements, except perhaps a sense of humour.

If you are new to bushwalking, take care to choose a walk that is appropriate to your level of fitness and experience. Although you may feel you are very fit—perhaps you even run marathons—fitness alone is no substitute for the numerous skills of an experienced bushwalker. It is far better to go on a walk that you find easy, than on one that is an ordeal.

The best approach is to attend the club meetings and talk to the committee members and the leaders. This allows us to suggest suitable walks and to help make your first bushwalks enjoyable.

Understanding the walks program

We publish our magazine, *Into The Blue*, four times each year. At the back of each issue is our walks program which, for each weekend, typically lists two or more overnight walks and a day walk.

Each walk includes a brief description and the following technical details:

- **Distance and Grade.** These give a guide to the difficulty of the walk; they are described below in more detail.
- Maps. These are the maps that cover the walk.
- Transport. We share transport as much as possible—this is not only cheaper, it is also much more sociable. The figure is the amount each passenger gives to the driver to help pay for petrol, wear and tear.
- Leader. The person who has volunteered to lead the walk (everything we do is voluntary).

between magnetic north and grid moment, we will ignore the difference calibrated and ready for use (for the vertical 'grid' lines. Your compass is now the dial points north and is parallel to the until the alignment arrow on the base of your destination. You then rotate the dial line which joins your present position to long side of the base is parallel to the place your compass on the map so that a When going from map to compass, you

lines—your compass is now calibrated (it should read 292°). until the alignment arrow is parallel to the vertical grid your compass base along the line 'A to B' and rotate the dial Using the map, if you are at 'A' and want to go to 'B', align

compass, now points towards your destination. are parallel. The bearing arrow, at the front of your compass until the alignment arrow and the magnetic needle Before you start walking, you simply rotate the whole

ou took the bearing The object on which

You want to go here

along this line

the alignment arrow is parallel to the Al' and rotate the whole compass until map so that one side touches' Mount Big 220°). Next, place your compass on the and the needle are parallel (assume it is

rotate the dial until the alignment arrow

bearing arrow at "Mt Big Al" and then

towering above you. So, you point the

the above. Assume you are on a small

procedure is essentially the reverse of

When going from compass to map, the

peak and can see 'Mount Big Al'

Compass to map

north).

The CMW Guide to Bushwalking

like the rest of the party. this correctly, you are on peak 'D'; if you haven't, you're lost your compass touching 'Mount Big Al'. If you have done vertical grid lines. You are somewhere along the side of

Distance and grade

(10 to 20 km) and long (over 20 km). and descend). The values are: short (under 10 km), medium day (it also takes into account the amount you have to climb Distance is the approximate distance you have to walk each

Grade is the type of terrain over which you have to walk.

The values are:

- Easy. Good tracks or open terrain.
- Medium. Bush tracks or fairly easy terrain.
- Rough. Thick scrub, some scrambling and walking along
- Exploratory. The leader is not familiar with the area—so
- Abseiling. Descending over cliffs by rope. expect rough terrain.
- The water is very cold, even in mid summer, and wetsuits • Canyoning. Swimming or liloing through the canyons.

may be recommended.

as possible. with short/easy walks and to talk to as many club members done much bushwalking. The wisest approach is to start meaningful, they are very hard to interpret if you have not Unfortunately, although these terms will eventually become

Making arrangements

meeting. (If the leader is not there, talk to a committee you should talk personally to the leader at the preceding generally, no later than four days before the walk. Ideally, Before going on a walk, you must talk to the leader—

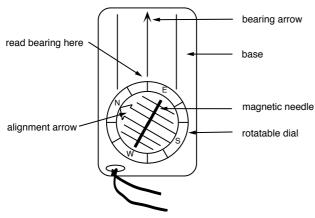
for the walk. Obviously, if you are new to the club, both of Both you and the leader need to establish your suitability member.)

you will tend to be apprehensive.

Compass

We now come to that nifty little device, the compass. By sheer good luck the earth has a magnetic field whose axis just happens to be closely aligned to the geographical axis. Because a compass needle aligns itself along the magnetic axis (the high school physics again) it also points roughly north/south. This enables us to align a map with the real world—so, when it's foggy, damp and cold, and you want to find your way back to the car, you will really appreciate the existence of a north pointing magnetic field.

A compass of the type shown below is the best for bushwalking. It has a clear plastic base in which is mounted a rotatable dial. The magnetic needle, housed within the dial, rotates freely and therefore always points north/south (the *north* end of the needle is normally painted red).



Using them together

There are two ways of using a map and compass together:

- Transferring a bearing from map to compass—you do this when you know where you are, but want to know the direction in which you must walk.
- Transferring a bearing from compass to map—you do this when you are trying to find your exact position.

Going to and from a walk

The leader usually arranges transport on the Thursday before the walk. The party members usually leave Sydney very early on the Saturday morning, or on the Friday evening.

Sydney being the size it is, the drive typically takes between two and four hours.

Because eating is a major obsession with bushwalkers, we often stop for a coffee or meal on both inward and outward journeys.

It is also a good idea to take along a clean set of clothes for the return journey because you may arrive back at the car sopping wet from sweat or rain.

Being overdue

Sounds ominous! Fortunately, accidents are quite rare—bushwalking is far safer than crossing a Sydney street or braving an after-Christmas sale.

The most common reason for being late is localised flooding. For example, you may be stuck on the wrong side of a rising creek, or the bush track leading back to civilisation may be impassible.

Please remember to tell your relatives and friends not to worry if you are late. If you are delayed, you will generally be able to make contact the next morning. And remember to show them the instructions and phone numbers that appear at the start of every walks program.

The CMW Guide to Bushwalking

booklet lists everything you need on a typical weekend clothing, footwear and packs. A checklist at the back of this Here we provide some tips for major items, such as between pleasure and pain. appropriate and inappropriate gear is the difference the fine arts of bushwalking. The difference between Taking the right gear, and taking just enough of it, is one of

We have a range of quality gear for hire at very cheap

walk.

your needs. club members will you know what is appropriate to after you have used quality gear and talked to other We recommend that you hire before you buy—only rates.

Clothing

In winter, you need to keep warm. clothing to protect you from the sun (and insects at night). and with the areas in which you walk. In summer, you wear Your clothing requirements vary greatly with the seasons,

While walking

• Shorts or lightweight trousers (according to preference) well dressed bushwalker typically wears: tend to keep fairly warm while walking. Consequently, the Around Sydney, it never gets very cold; even in winter, you

Gaiters (to protect your shins from scratches)

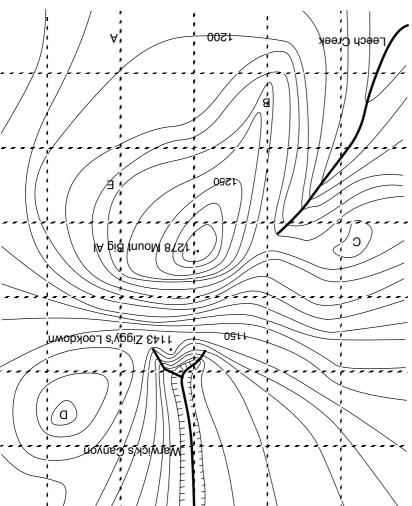
Light thermal vest during winter

 Sandshoes and woollen socks Shirt (long sleeved polycotton)

Hat (wide brimmed)

A typical map

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- Rivers and creeks cut across the contour lines. the lines, the steeper the slope. peaks are surrounded by concentric lines; and the closer
- Contour lines represent ground of equal height. Therefore
 - The top of the map points north. countryside is compressed onto the map.
 - The scale of the map determines the extent to which the This covers the four basic concepts of map reading:

Contour lines

Contour lines, shown in brown, indicate ground of equal height. Thus if you follow a contour line you neither climb nor descend. You only climb or descend if you *cut across* these lines.

The difference in height between adjacent lines—called the *contour interval*—is normally 10 metres. Also, the height above sea level is printed along some of the lines.

Since you only climb if you cut across contour lines, it follows that a peak is represented by one or more concentric contour lines—because you climb up to a peak (cut across contour lines) from every direction. In the map shown on the next page, the highest peak is 'Mount Big Al'. The points marked 'C' and 'D' are also peaks; but only small local ones, because they are separated from the surrounding countryside by fewer lines.

Another feature you can derive from contour lines is that of steepness. Since distance on the ground is proportional to the distance on the map it follows that the more contour lines you cross in a given space the steeper the slope. If you look at the map you will see that it is about the same distance from Mount Big Al to Ziggy's Lookdown as it is from Mount Big Al to 'E'; but in the first case you drop 135 metres (cross 13 contour lines), whereas in the second you drop only 40 metres (cross four contour lines).

Rivers

Rivers and creeks, shown in blue, cut across the contour

lines—this is another way of saying that

water flows downhill (hopefully you remember this bit of high school physics). From this it follows that the valleys follow the blue lines.



Spare clothing

Because you may get saturated while walking, you must carry suitable rain gear and spare clothing:

- Waterproof parka
- Thermal jacket/jumper
- Thermal vest and long johns (these are light-weight, and keep you warm even when damp)
- Socks

Footwear

Probably the greatest source of discomfort for bushwalkers is footwear. There is no ideal shoe; and no two feet—even your own—are alike.

Many bushwalkers in Sydney wear sandshoes or running shoes, in particular *Dunlop Volleys*. These are generally the most suitable for the types of walks we do near Sydney.

If you want to wear boots, buy only quality ones (as stocked in bushwalking shops) and choose them very carefully. *And break them in before going on any walk*.

Pack

A typical pack has an internal frame and a waist-belt that places most of the weight on your hips. There are some important factors to consider when choosing a pack:

- Pack length. The majority of packs are designed for males of average height or taller—if you fall into this category, you will have a wide choice. If you are shorter than about 170 cm, you have to choose your pack carefully and make sure that its length (from the shoulder straps to the waistbelt) is right for you.
- Pack capacity. The initial inclination of many people is to choose a large pack—but this is often an unwise move.
 With a bit of experience you can learn how to pack efficiently and to carry the minimum needed for comfort and safety.

As a general rule, a pack with a capacity of 65 litres is adequate for even the longest walk.

Using map and compass

together. the workings of a compass and, lastly, how to use them and compass. Here we explain the basic concepts of a map, then that you appreciate that most useful partnership: map When in the bush everything can look so confusing. It is

Map

you and the corresponding map. recognise the similarity between the ground directly below you were to fly over the Blue Mountains you would easily A map is essentially a bird's eye view of the countryside. If

maps: scale, orientation, contour lines and rivers. There are four basic concepts you need to understand about

Scale

information and are equivalent to flying map. These maps contain a lot of ground is squeezed into 1 centimetre on the 1:25000. This means that 250 metres on the The maps we normally use have a scale of

—they therefore don't show enough detail for walking. maps, on the other hand, are equivalent to flying very high low over the countryside. Country road-250 metres

later, the grid is essential when you use a map with your each block represents one square kilometre. As is explained lines, that divide the map into blocks. On a 1:25000 map, Most maps have a grid, made up of vertical and horizontal

compass.

Orientation

·utnos points east and the bottom points side points west, the right side north; from this it follows that the left The top of the map always points

has a simple design, and does not have lots of extra certainly less than 2 kg. In practice this means a pack that • Pack weight. Choose a pack that is as light as possible—

pack efficiently.) packs are heavier, harder to waterproof, and harder to rather than a dual compartment one. (Dual compartment Single compartment. Choose a single compartment pack

Sleeping bag

on a snow or winter trip.. that you buy a three season one first, unless you want to go heavier ('tour season') one for winter trips. We recommend non-winter trips (often called a 'three season' bag) and a Most experienced walkers have two bags: a light one for temperatures that you may find yourself subjected to. than choosing a pack because of the wide range of Unfortunately, choosing a sleeping bag is more difficult

fine duck feathers), and come in standard and long sizes. All good sleeping bags are made from 'superdown' (very Tent

tent is essential. If you do decide to buy a tent, first talk to It is only on trips to places like the Snowy Mountains that a than a good tent, and is about half the weight. adequate for most of our walks. Also, a fly costs much less one shown on the front cover of this guide—is quite Ironically, the cheapest solution is a simple 'fly'—like the almost limitless variety of tents that are available. affair. Just east your eye around any campsite to see the Campfire discussion about the 'right' tent is often a heated

Stove

when it's cold and wet. a campfire—the benefits of a stove are particularly obvious Most club members use stoves, in preference to cooking on

club members and look at their tents.

The CMW Guide to Bushwalking

east

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Farmland

We rely on the friendliness of many farmers. Comply with their requests because a careless act on your part could prove extremely expensive to a farmer. In particular, when crossing farmland, leave gates as you find them.

Keeping together

It is essential that you keep in contact with the rest of the party at all times.

Obviously, the best solution is to pay attention to where the other party members are going. And always make others aware of what you are doing—for example, if you stop to relieve yourself, tell someone else first.

It is difficult to give precise instructions as to what to do if you ever become separated—other than don't panic—but keep these tips in mind:

- As soon as you think that you have lost the party, shout out. It is far better to shout too often than not to shout enough.
- If you have no idea of where the others are, stay where you are; the others will soon come back.
- Don't start racing to 'catch up'. You may actually be running away from the party.
- If you have been following a track or creek, you may have taken a wrong turning. If you remember seeing a junction, return to that junction; but no further.

The moral is keep in touch with the others at all times; and learn how to navigate.

There are many types of stove, each with its own advantages and disadvantages. The two most popular types of stove are:

• 'Trangia'. A Trangia stove is very easy and safe to use, and runs on methylated spirits. Trangia stoves come as a complete kit with pots, pot gripper and a built-in windshield. They also come in two sizes; the smaller size being suitable for one person.

If you purchase a Trangia, you can reduce the weight significantly by taking only one pot, and replacing the heavy lid with thick aluminium foil (as sold in supermarkets for baking meat).

• Gas. A gas stove is lighter than a Trangia, but you must separately purchase the burner, pot(s), pot gripper and windshield (thick aluminium foil).

A disadvantage of gas stove is that you sometimes end up carrying a full gas canister on a walk, but only use a fraction of the gas. Savvy walkers keep a collection of partly used gas canisters and accurately measure their weights, so that, for each walk, they can select the canister that contains just enough gas.

On some walks you must use a stove—typically because you will be camping in an environmentally fragile or popular area. If you are unfamiliar with a walk, ask the leader whether you need a stove.

First-aid kit

Hopefully, you will never need a first-aid kit, but you must always take one on a walk. Your kit should contain:

- Asprin/paracetamol
- Elasticised bandage
- Dressing
- Triangular bandage
- Elastoplast bandaid strip
- Adhesive tape/bandage
- Antiseptic
- Safety pins
- Scissors

Fires

- Tweezers
- səlpəəN•
- Thread, thin and thick
- Matches, spare
- Pencil Note paper
- altogether, your first-aid kit should weigh less than 300 gm. Pack these items in a suitable waterproof container—

Miscellaneous tips

amounts you need. to take only those things that are essential, and only the other things, such as toiletries and cooking gear. The trick is Apart from the major items and food, you also need to carry

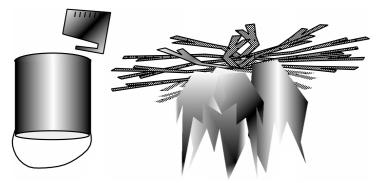
Here are a few tips:

- paper and a small piece of soap. empty tube of toothpaste, an almost finished roll of toilet Take only small quantities—for example take an almost
- cream), to small plastic containers. • Transfer things such as butter and honey (and face
- Take an aluminium, not an stainless steel, pot for cooking.
- 1.25 litre fizzy drink container. cheapest—and perhaps the best—water bottle is a simple Take a plastic, not an aluminium water bottle. The
- sell light, unbreakable plastic cutlery. Take plastic, not metal, spoon and fork—camping shops
- Take a light, simple steel knife; not a heavy, fancy one that
- Take a torch. (A headtorch is ideal, but talk to club has a built-in kitchen sink.
- appropriate to your needs.) members before buying one so that you get one that is
- very waterproot.) garbage bag—to keep everything dry. (Most packs are not Line your pack with a large plastic bag—such as a
- and fragile. Don't carry any glass containers because they are heavy

- campfires in many of the places where we walk. So, if you We are extremely fortunate in Australia to be able to have
- Observe any fire bans. (If a fire ban is likely, you should light a fire:
- Make sure that the fire is out before leaving it. take food that does not require cooking.)
- Don't make the fire too big, especially if wood is scarce.
- If you use firewood stored in a hut, replace it before
- property of all bushwalkers. leaving—the huts and the firewood are the common

On some walks you must use a stove—typically

walk, ask the leader whether you need a stove. fragile or popular area. If you are unfamiliar with a because you will be camping in an environmentally



Tracks

to it and don't take short cuts. designed to minimise erosion. So, if you are on a track, keep Marked tracks, especially those in national parks, are

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Bushwalking rules

Our guiding ethic is:

Our impact on the bush should be as small as possible—ideally, it should be impossible to discover where we have walked or camped.

Flora and fauna

All native flora and fauna are protected in national parks. For us, this rule applies wherever we walk.

Rubbish

You brought it in, so you take it out. Besides, empty plastic bags and tins weigh very little.

Don't burn anything, other than paper, on the campfire. Don't even burn paper-based packaging that is lined with aluminium or plastic.

Going to the toilet

Select a spot well away from the campsite, tracks and creeks.

If you are having a shit, dig a small hole with a stick or a rock (or even the heel of your shoe) and cover up after.

Washing

When washing with soap, fill a water bucket and wash well away from the creek, so that the water drains into the soil. When swimming, swim downstream from the campsite.

- Don't take deodorants—everyone smells after a day's walking, so no-one is going to notice your body odour.
- Don't take a towel; a face towel or Chux towelette is quite adequate.

Packing it all in

Now that you've got gear and food scattered around your room, you have to pack it correctly—and neatly.

It's generally best to start by placing bulky items, such as your sleeping bag and spare clothing (but not your thermal jacket/jumper) at the bottom. The reason for this is that you won't need them until you have reached the campsite.

Here are a few more packing hints:

- Keep the denser things close to your back—this improves your balance. But make sure they don't dig into your back.
- Keep the weight on each side as even as possible—again, this improves your balance.
- Keep things you need often or quickly (such as your jacket or parka) as close to the top as possible. In the case of your parka, you may be able to put it in the top or back pocket.

Buying gear

When buying any bushwalking gear, only two words are important: *quality* and *appropriateness*.

Only buy quality, brand-name gear; there is a lot of cheaper gear in the shops, but, with a few exceptions, it is neither suitable nor comfortable.

Similarly, only buy equipment that is appropriate to your needs. Even good quality equipment is a waste of money if it doesn't fit—boots are a prime example—or if you don't need it for the types of walking you do—such as an expensive, heavy snow-tent on a walk to the Blue Mountains.

Breakfast

- Porridge or muesli
- Powdered milk

Lunch, snacks and miscellaneous items

- Sandwiches
- sinN •
- Dried fruits
- Fresh apple
- Tea/coffee
- Biscuits
- Dinner

Starter:

- Main meal: Packet soup
- Fresh meat or small tin of meat/
- Fresh vegetables
- Rice or macaroni
- Spices/herbs
- Dessert:
- Piece of fruit cake

Catering for long walks

recipe ideas and talk to other club members—some of us are our longer walks, visit our website (www.cmw.asn.au) for tasty, requires skill and experience. Before you go on any of Preparing varied and balanced meals that are light, yet

that it only weighs about 800 gm per day. On long walks we only take dehydrated food, which means quite good bush-cooks.

own vegetables and meats. We even have a dehydrator you can hire to dry your

Taking the right food

much better after a day's walk. Eating is one of the joys of life—and everything tastes so

Keeping things light

carry it out. have to carry it; and if you take too much, you also have to another of the fine arts of bushwalking. Remember that you Choosing the right types and quantities of food for a walk is

Keep the following points in mind:

- plastic bag and take only that. cuptul of muesli for breakfast, measure this amount into a normally eat for each meal. It, for example, you eat a Take only the amount you need. Think about what you
- each lunch. Although fresh food tastes better, it is 70% to Take fresh food in moderation; for example, an apple for
- noodles—you need these to give you sustained energy. Take complex carbohydrates such as bread, rice and
- Avoid tins—again, they contain mostly water.
- artificial flavours. tastes much better and doesn't contain preservatives or flavoured water; and the water in our national parks Don't take packaged fruit juices because they are just
- Remove excessive packaging; for example, remove the

outer packet of packet soups.

Food for a typical weekend walk

would eat at home. On a weekend walk you can eat more or less what you

and don't take any tins—this will reduce the weight to less If you're very concerned about weight, take only dry food kilograms (for two breakfasts, two lunches and one dinner). Ahatever you bring, it should weigh between 2.5 and 2.5 The following list is intended simply as a guide. But