



HOW TO STUDY PUBLIC LIFE

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Counting

Counting is a widely used tool in public life studies. In principle, everything can be counted, which provides numbers for making comparisons before and after, between different geographic areas or over time.

Mapping

Activities, people, places for staying and much more can be plotted in, that is, drawn as symbols on a plan of an area being studied to mark the number and type of activities and where they take place. This is also called *behavioral mapping*.

Tracing

People's movements inside or crossing a limited space can be drawn as lines of movement on a plan of the area being studied.

Tracking

In order to observe people's movements over a large area or for a longer time, observers can discreetly follow people without their knowing it or follow someone who knows and agrees to be followed and observed. This is also called *shadowing*.

Looking for traces

Human activity often leaves traces such as litter in the streets, dirt patches on grass etc., which gives the observer information about the city life. These traces can be registered through counting, photographing or mapping.

Photographing

Photographing is an essential part of public life studies to document situations where urban life and form either interact or fail to interact after initiatives have been taken.

Keeping a diary

Keeping a diary can register details and nuances about the interaction between public life and space, noting observations that can later be categorized and/or quantified.

Test walks

Taking a walk while observing the surrounding life can be more or less systematic, but the aim is that the observer has a chance to notice problems and potentials for city life on a given route.

Counting

Counting is basic to public life studies. In principle, everything can be counted: number of people, gender division, how many people are talking to each other, how many are smiling, how many are walking alone or in groups, how many are active, how many are talking on their cell phones, how many shop windows have metal bars after closing, how many banks there are, and so on.

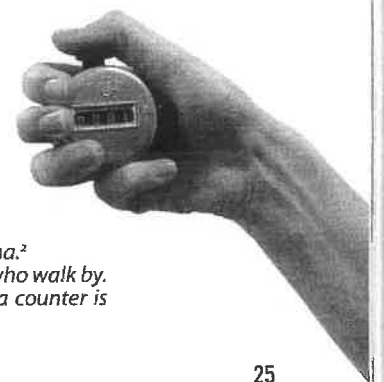
What is often registered is how many people are moving (pedestrian flow) and how many are staying (stationary activities). Counting provides quantitative data that can be used to qualify projects and as arguments in making decisions.

Numbers can be registered using a handheld counter or by simply making marks on a piece of paper when people walk past an imaginary line. If the goal is to count people staying, the observer typically walks around the space and does a headcount.

Counting for ten minutes, once an hour, provides a rather precise picture of the daily rhythm. City life has shown to be quite rhythmic and uniform from one day to the next, rather like a lung that breathes. Yesterday is very much like tomorrow.⁷

Naturally, it is crucial to conduct the count for exactly ten minutes, because this is a random sample that will later have to be repeated in order to calculate pedestrian traffic per hour. All of the individual hours will then be compiled in order to get an overview of the day. Therefore, even small inaccuracies can invalidate the results. If the site is thinly populated, counting must be continued for a longer interval in order to reduce uncertainty. If anything unexpected happens, it must be noted: for example, a demonstration involving lots of people, road work or anything else that might influence the number of people present.

By conducting headcounts before and after initiatives in city space, planners can quickly and simply evaluate whether the initiative resulted in more life in the city, broader representation of age groups, etc. Counting is typically conducted over a longer period in order to compare different times of day, week or year.



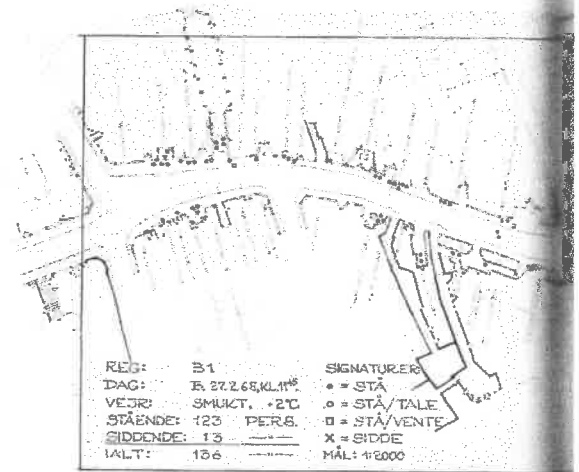
Headcounts in Chongqing, China.² Registering all the pedestrians who walk by. If there are many pedestrians, a counter is invaluable (right).

Mapping

Mapping behavior is simply mapping what happens on a plan of the space or area being investigated. This technique is typically used to indicate stays, that is, where people are standing and sitting. The locations of where people stay are drawn at different times of day or over longer periods. The maps can also be combined layer on layer, which gradually provides a clearer picture of the general pattern of staying activities.

In order to envision activities throughout the day, it is essential to register several samples in the form of momentary 'pictures' in the course of a day. This can be done by mapping stays on a plan of the area being investigated at selected points in time throughout the day. Thus mapping shows where the stays are made, and the observer can use a symbol (an X, a circle, a square) to represent the different types of stationary activities – what is going on, in other words. One registration answers several questions, and the qualitative aspects about where and what supplement the quantitative nature of the counting.

This method provides a picture of a moment in a given place. It is like an aerial photo that fast-freezes a situation. If the entire space is visible to the observer, he or she can plot all the activities on the plan from one vantage point. If the space is large, the observer must walk through it, mapping stays and putting the many pieces together to get the total picture. When walking through a space, it is important for observers not to be distracted by what is going on behind them, but rather to focus on what is happening abreast. The point is to capture one single picture of the moment rather than several.



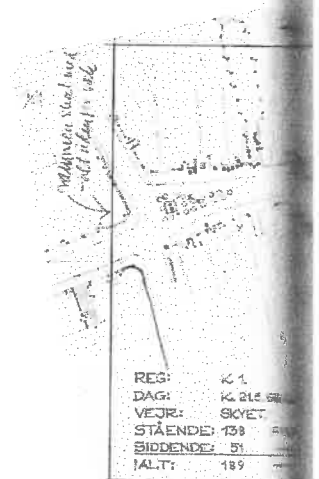
1.

Original captions from "People in Cities", Arkitekten no. 20, 1968:

1. "Winter day. Tuesday, 2.27.68 (...) Plan B1, which indicates standing and seated people in the area at 11.45 a.m., shows that all the seating in the sun is occupied, while none of the other benches in the area are being used. The largest concentration of people standing is near the hotdog stand on Amagerørvej. The plan also shows that people standing to talk and standing to wait are either in the middle of the street or along the façades."

2. "Spring day. Tuesday, 05.21.68 (...) As in February, about 100 people on average are standing in front of shop windows, but all other forms of activity have increased. Most marked is the growth in the number of people standing and looking at what is going on. It is warmer now, and more is happening, therefore more to look at."

3. "Summer day. Wednesday, 07.24.68 (...) The number of pedestrians, about 30%, standing in front of shop windows is unchanged. This would appear to be a constant. (...) In general it can be observed that the center of gravity in the area has shifted from the commercial street Vimmelskaftevej to the more recreational square Amagerørvej."



2.

Tracing

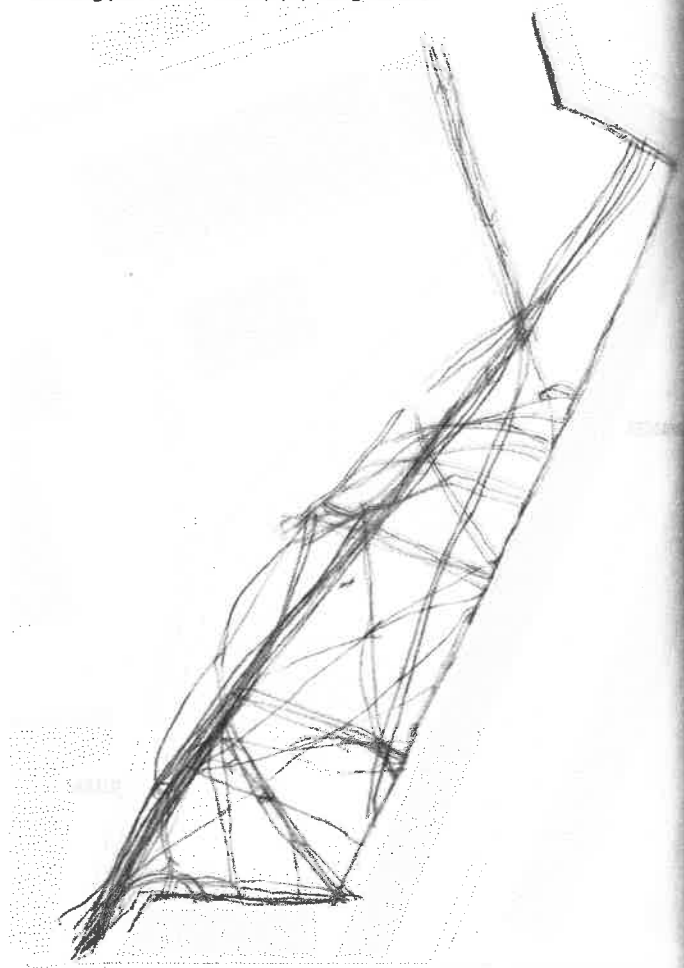
Registering movement can provide basic knowledge about movement patterns as well as concrete knowledge about movements in a specific site. The goal can be to gather information such as walking sequence, choice of direction, flow, which entrances are used most, which least, and so on.

Tracing means drawing lines of movement on a plan. People's movements are watched in a given space in full view of the observer. The observer draws the movements as lines on a plan of the area during a specific time period, such as 10 minutes or half an hour.

Tracing is not exact, as it can be difficult to represent lines of movement if there are many people moving through a given space. It may be necessary to divide the space into smaller segments. Tracing movements on a plan provides a clear picture of dominant and subordinate lines of flow as well as areas that are less trafficked. GPS equipment can be used to register movements in a large area such as an entire city center or over a long period.

Registration, hand-drawn sketch: Movements on a plan made in the courtyard of the Emaljehaven housing complex in Copenhagen, by Gehl Architects in 2008. Every line represents one person's movements in the space. Lines were drawn every 10 minutes on tracing paper, which was then layered to provide an overall picture of the movement patterns.

Rentemestervej
Saturday the 13th of September from 12-3 p.m.
Walking patterns at noon, 1, 2, and 3 o'clock



Tracking

In addition to standing in one place to register movement, observers can also follow selected people in order to register their movements, which is called *shadowing* or *tracking*. This method is useful for measuring walking speed, or where, when and to what extent certain activities take place along a route. Activities could be actual stays or more subtle acts such as turning the head, stopping, making unexpected detours, etc. The method could also be used, for example, to map the route to and from a school in order to make it safer.

Speed observations can be made with the naked eye and a stop watch by following the person whose speed you want to measure. Observers must keep a reasonable distance so that the person being observed does not get the feeling that he or she is being followed. Another option is to observe speed over a measured distance from a window or other site above street level.

If the goal is to get a total picture of an individual's movements over a period of time, a pedometer is useful. GPS registration is also useful for measuring speeds on given routes. A variation of shadowing is to follow someone who knows and agrees to being followed and observed. GPS registration can be used for remote shadowing of selected people.

Photo from the tracking registrations on Strøget, Copenhagen's main pedestrian street, in December 2011.⁴ The observer follows randomly selected pedestrians (every third), using a stop-watch to time how long it takes the person to walk 100 meters. When the person being shadowed passes the imaginary 100-meter line, the watch is stopped. If the pedestrian does not follow the pre-measured route, tracking that particular person is abandoned.



Looking for Traces

Human activity can also be observed indirectly by looking for traces. Indirect observation requires observers to sharpen their senses just like detectives on the trail of human activity or the lack hereof.

A core tenet of public life studies is to test the actual conditions in the city by observing and experiencing them firsthand and then considering which elements interact and which do not. What is relevant for testing differs from place to place.

Looking for traces could mean recording footprints in the snow, which attest to the lines people follow when they

cross a square, for example. Traces might also be found in trampled paths over grass or gravel, or as evidence of children's play in the form of temporarily abandoned toys. Traces could be tables, chairs and potted plants left outside in the evening, which indicate a quarter where residents confidently move their living room into public space and leave it there. Traces could show just the opposite: hermetically sealed shutters and bare porches can indicate a quarter with no signs of life. Traces can be things left behind or things used in ways not originally intended, such as traces of skateboarding on park benches.

Left: Tracks left in the snow at Town Hall Square, Copenhagen, Denmark

Right: Like everyone else, architecture students take the most direct route: The Royal Danish Academy of Fine Arts, School of Architecture, Copenhagen, Denmark.



Photographing

Photographs are frequently used in the field of public life studies to illustrate situations. Photographs and film can describe situations showing the interaction or lack thereof between urban form and life. They can also be used to document the character of a site before and after an initiative.

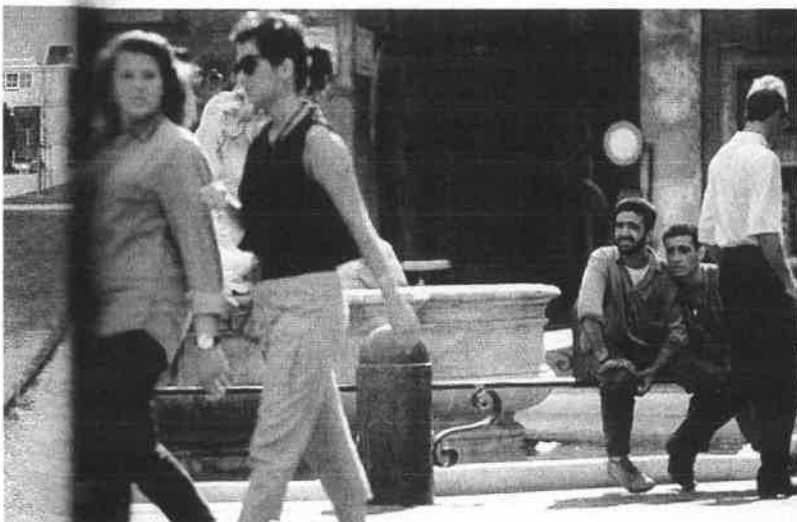
While the human eye can observe and register, photographs and film are good aids for communication. Photographing and filming can also be a good tool for fast-freezing situations for later documentation and analysis. By later studying photographs or film, it is possible to discover new connections or to go into detail with otherwise complex city situations that are difficult to fully comprehend with the naked eye.

Photographs often illustrate and enliven data. In the field of public life studies, photographs of public life scenes are not subjected to the usual aesthetic principles so dear to the hearts of architects generally. Here the emphasis is not on design but rather on situations that occur in the interaction between public life and public space.

Photographs can be used generally as well as in specific projects to document life and conditions for life in public space. And even though it is a bit of a cliché, one picture can be worth 1000 words, particularly because the viewer can identify with the people in the pictures, which are often snapped at eye level.

Variations include time-lapse photography or video sequences to show situations over time, with or without the presence of the observer. The angle and size of the lens is relevant if either film or photograph is to correspond to the human field of vision.

Good observation post, good company and good study objects: Piazza Navona, Rome, Italy.



Keeping a Diary

All of the tools described above provide only random samples of the interaction of public life and public space. These samples of what is taking place can rarely provide all the details. However, details can be vital additions to our understanding of how life in public space develops as sequences and processes. One way to add detail is to keep a diary.

Noting details and nuances can increase knowledge about human behavior in public space for individual projects as well as to add to our more basic understanding in order to develop the field. The method is often used as a qualitative supplement to more quantitative material in order to explain and elucidate hard data.

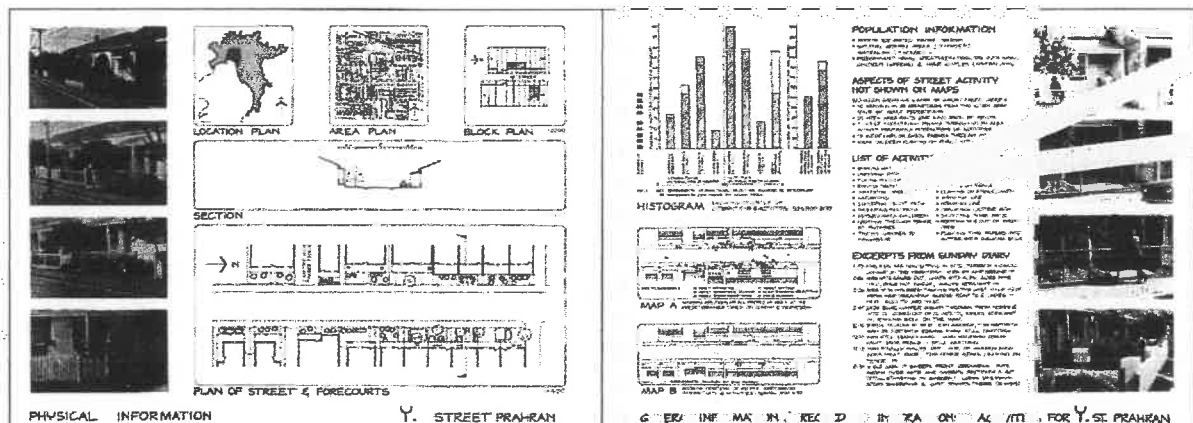
Keeping a diary is a method of noting observations in real time and systematically, with more detail than in quantitative 'sample' studies. The observer can note everything of relevance. Explanations can be added to general categories such as standing or sitting, or brief narratives can aid our understanding of where, why and how life plays out in

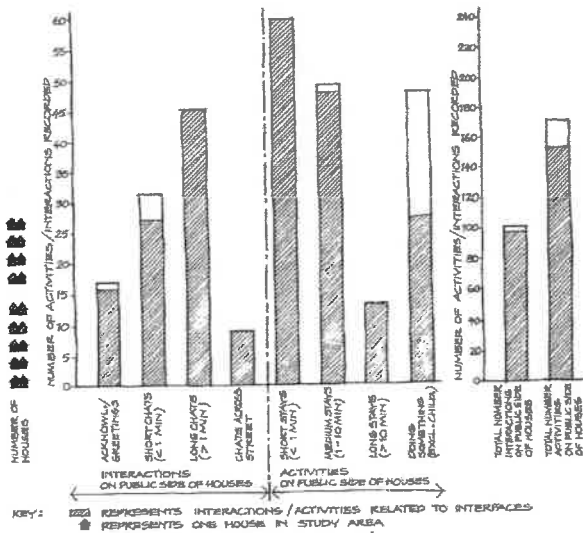
an event that is not exclusively purpose-driven. Examples could include someone mowing a front-yard lawn at several times during the day, or an older woman who empties her mailbox several times on a Sunday.⁶

Keeping a diary can also be used as a supplementary activity, with the observer adding explanations and descriptions to facts and figures.

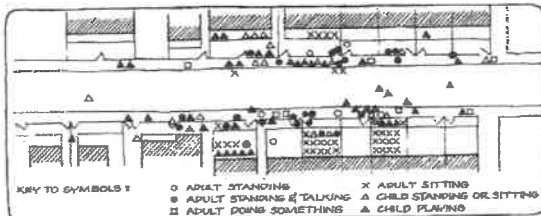
Keeping a diary can register events that cannot easily be documented using more traditional methods. This example shows notes from a study of residential streets in Melbourne, Australia. Shown at right is a page from a diary for the Melbourne study.⁵

The two-page spread below depicts Y Street, Prahran, Melbourne, Australia. The physical framework is described on the left-hand page – the dimensions and form of the street. The right-hand page describes the activities taking place on the street during one Sunday.

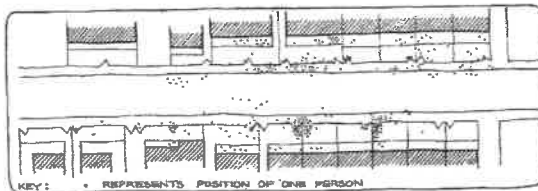




HISTOGRAM SHOWING INCIDENCE OF INTERACTIONS & ACTIVITIES - SUN. 8:00-6:30



MAP A SHOWING POSITIONS OF ALL PEOPLE IN AREA AT 38 PREDETERMINED TIMES ON SUNDAY & WEDNESDAY



MAP B SHOWING POSITIONS OF PEOPLE PERFORMING INTERACTIONS & ACTIVITIES - SUNDAY 8:00-6:30

POPULATION INFORMATION

- APPROX ESTIMATED INCOME: MEDIUM
- NATIONAL GROUPS: GREEK (9 HOUSES), AUSTRALIAN (9 HOUSES)
- PREDOMINANT SOCIAL STRUCTURES: FAMILIES WITH SMALL CHILDREN (GREEKS) & SOME COUPLES (AUSTRALIANS)

ASPECTS OF STREET ACTIVITY NOT SHOWN ON MAPS

- BETWEEN 8:30AM AND 6:30PM ON SUNDAY THERE WERE:
- 92 ARRIVALS IN OR DEPARTURES FROM THE STUDY AREA MADE BY ADULT PEDESTRIANS
 - 29 INTRA-AREA VISITS (ONE WAY) MADE BY ADULTS
 - 71 ADULT PEDESTRIANS PASSING THROUGH STUDY AREA WITHOUT PERFORMING INTERACTIONS OR ACTIVITIES
 - 191 MOTOR CARS OR BIKES PASSING THROUGH STUDY AREA
 - MANY CHILDREN PLAYING ON PUBLIC SIDE OF HOUSES

LIST OF ACTIVITIES ON SUNDAY

- SHAKING MAT
- CARRYING POTPLANTS
- PICKING FLOWERS
- RAKING FRONT GRASS
- WATERING GARDEN
- GARDENING
- SWEEPING FRONT PATH
- SWEEPING FOOTPATH
- SUPERVISING CHILDREN
- LOOKING THROUGH FENCE AT FLOWERS
- TAKING GRAPES TO NEIGHBOUR
- WALKING DOGS
- SITTING ON VERANDAH SEATS
- SITTING IN GATEWAY
- SITTING ON FENCE
- LEANING ON FENCE/GATE
- WASHING CAR
- MENDING CAR
- CHECKING LETTER BOX
- SHUTTING SIDE GATE
- POPPING IN & OUT OF FRONT DOOR
- FLICKING TINY PAPERS INTO GUTTER WITH WALKING STICK

EXCERPTS FROM SUNDAY DIARY

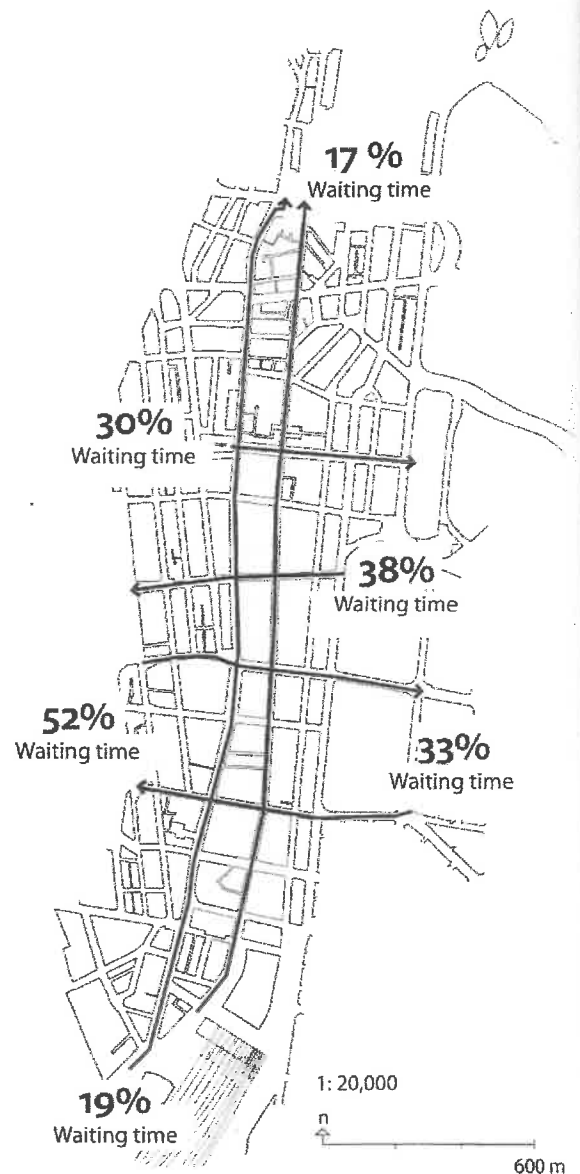
- 1-59 FIVE KIDS ARE NOW SITTING IN N° 12, THERE IS A CHAISE LONGUE ON THE VERANDAH. KIDS ON AND AROUND IT.
- 2-06 MRS N° 12 COMES OUT, CHATS WITH KIDS, GOES INTO N° 10, DOES NOT KNOCK, WALKS STRAIGHT IN.
- 2-26 MRS N° 16 HAS BEEN TALKING FOR THE LAST HALF HOUR FROM HER VERANDAH ACROSS ROAD TO 2 LADIES IN N° 13; ALSO TO MRS N° 20
- 2-47 LADY BLUE JUMPER WALKS THROUGH FROM NORTH & INTO 12. COMES OUT OF 12 INTO 10, WALKS STRAIGHT IN, RINGING BELL ON THE WAY.
- 12-06 3 MEN TALKING AT N° 13. 2 IN GARDEN, 1 ON FOOTPATH. MAN ON FOOTPATH EDGING AWAY STILL CHATTING.
- 12-10 MAN STILL EDGING AWAY. MAN HALFWAY DOWN NEXT-DOOR FENCE - STILL CHATTING
- 12-13 MAN FINALLY WALKS OFF. ONE OF GARDEN MEN GOES NEXT DOOR; THE OTHER STAYS LEANING ON FENCE 13.
- 2-34 V. OLD LADY 17 SWEEPS FRONT VERANDAH. PUTS BROOM OVER GATE AND SWEEPS FOOTPATH A BIT (STILL STANDING IN GARDEN) LOOKS UP & DOWN. STOPS SWEEPING & JUST STANDS THERE (10 MINS)

Test Walks

To make test walks, the observer walks selected important routes, noting waiting times, possible hindrances and/or diversions on the way.

There can be great differences in walking a distance measured in sight lines and a theoretical idea about how long it takes to walk from point A to point B, and the time it actually takes to walk that distance. The actual walk can be slowed by having to wait at stoplights or by other hindrances that not only slow the pedestrian but make the walk frustrating or even unpleasant. Test walks are a good tool for discovering this type of information.

Test walks were carried out as an important element in the public life studies conducted in Perth and Sydney, Australia (1994 and 2007, respectively). In both cities, pedestrians spent a significant amount of their time waiting at the many traffic lights prioritizing car traffic. The test walks proved to be a strong political tool in efforts to provide better conditions for pedestrian traffic.





Test walks in Sydney showed that up to 52% of total walking time was spent waiting at traffic lights.⁸