

PERMACULTURE DESIGN COURSE



With Bill Mollison

MP3 Set

Recorded

in Stanley, Tasmania,

September 1983

by Jeff Nugent



Bill Mollison netting Azolla from a pond at the course in Stanley.

Stanley, Tasmania. Bill Mollison showing students globe artichoke growing beside a pond with azolla growing on top

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Dear Reader,

In September of 1983 I had a rare opportunity to spend two weeks at a Permaculture Design Course by Bill Mollison. It occurred to me that not everyone had such an opportunity. Had it not been for family and friends I would not have been able to make the journey.

In an attempt to make that course available to everyone I took professional recording equipment with me. Much editing later, I present the enthusiast with a set of tapes which mark a point in history. A time before Permaculture has become a household word.

In true organic form, Permaculture is growing. The more desperate the world situation becomes, the more people turn to Permaculture as a way out. I urge the listener to work hard at promoting this growth.

In editing the tapes I tried to retain the same flow of topics without removing too much of the groups interaction. I feel that the set has captured the essence of the course and certainly carries most of the information. There may be seeming gaps in the flow where lunch was wheeled out or where the master tape finished and another was loaded but I trust the listener will find their way around this.

For Bill Mollison I have nothing but admiration and respect. He had only just returned from the USA and was straight into the course. He used no notes and one got the feeling that he could have talked for the whole two weeks on any one topic without exhausting his knowledge. These tapes were recorded using hydroelectric power and edited using solar power. I hope you find them as useful as I have.

Happy Listening and Best Wishes

Jeff Nugent

(February 1984)

Postscript to the 1998 edition.

Bill Mollison announced this year that he will not be teaching anymore courses. This now makes this set of tapes a unique part of history and adds an extra responsibility to me. The master tapes were recorded on magnetic tape which loses quality with time. I am in the process of digitising the recordings and storing them on an optical media so that they will be better preserved. This takes capital and so this combined with Bill's announcement not to run anymore courses that has prompted me to advertise the package again.

It has been through popular request that I have opted to make the set part of a Permaculture Design Certificate Correspondence Course.

Anyone wishing to contribute to the cost of preserving the recordings and many others I have of Bill can contact me for details.

Best Wishes

Jeff

Postscript to the 2006 edition.

Finally I can offer this audio set as digitised sound. As an mp3 set they can be used in many ways. One hopes that they will become popular in this form. What better listening?

Sadly, many of the ideas in this collection are still relatively unknown and more than ever, we are running out of time.

I trust the listener will use this information for the common good.

Have fun along the way - Jeff

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**Stay tuned for other Bill Mollison audio and other Permaculture
publications at www.permacultureplants.net**

Navigating your way around the mp3s.

I have included all of the blackboard drawings in this booklet. I have used the numbering system from my own tape decks as a reference. Each mp3 is one side of a tape and have been numbered 01a, 01b (side a and b of first tape), to 29a and 29b. To locate the part of the tape where that drawing first occurs one could either use a tape with a numbering system or alternatively use a clock. On mp3s of course there is usually a time counter included.

000 represents the start of the side of a tape.

700 represents the end of the side of a tape (about 43 minutes).

intermediate numbers will give approximate location of information on tape.

Tape 1 Side A

000 The evidence of environmental deterioration.

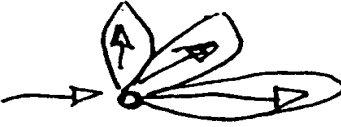
070 Acid rain.

(10 ⁶)1,000,000	1-	Concentrated sulphuric acid
X	1.6	snowfall in Vermont
more acid than 7		
(10 ⁵)100,000	2-	
X	2.2	Lime Juice
more acid than 7	2.8	Vinegar, average rainfall Berlin
(10 ⁴)10,000	3-	
X		
more acid than 7	3.8	Average rainfall USA
(10 ³)1,000	4-	Aluminium (in solution is plant poison) dissolves
X	4.5	Lead, Mercury, Cadmium, Selenium dissolve and unprotected cells die. (fish eggs, frogs, slugs, etc.)
more acid than 7		
(10 ²)100 X	5-	Peat Bogs
more acid than 7	5.5	Rain (normally) - mostly carbonic acid
	5.8	male birth rate, anxiety, aggressiveness increase
(10 ¹)10	6-	
X		
more acid than 7		
Neutral	7-	Neutral - pure water
(10 ¹)10	8-	desert soils
X	8.5	sea water
more alkaline than 7		desert soils
(10 ²)100	9-	
X		
more alkaline than 7		
(10 ³)1,000	10-	Baking Soda
X		
more alkaline than 7		
(10 ⁴)10,000	11-	Coastal lagoons
X		
more alkaline than 7		

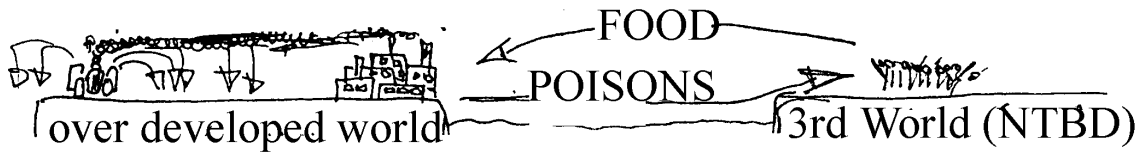
Tape 1 Side A

- 352 The politics of acid rain
- 395 Atomic Power
- 580 Potable water

3 Mile Island

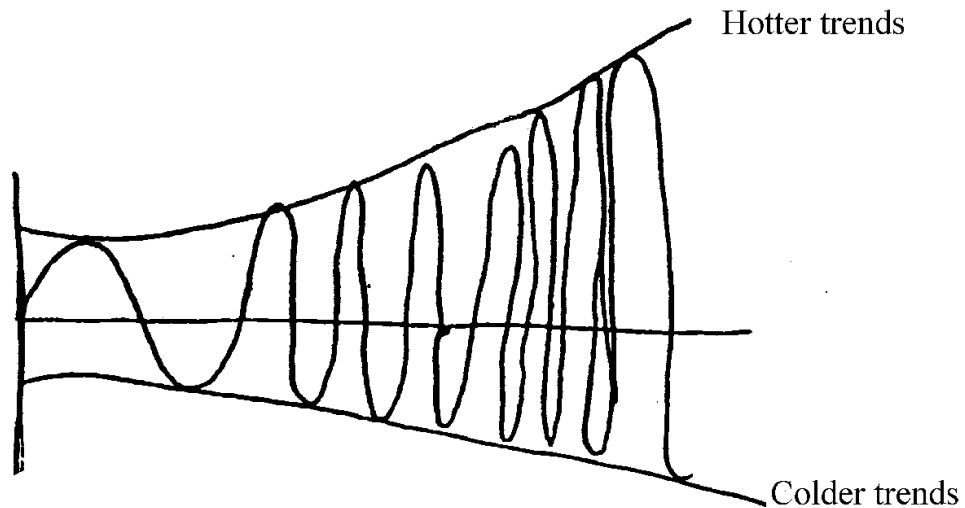


- 660 Cadmium in food from superphosphate



Tape 1 Side B

- 260 CO₂ increases in atmosphere



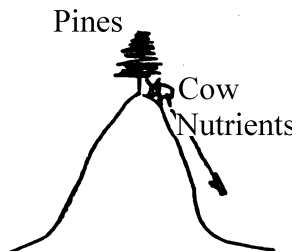
- 390 Atomic fallout & storage of nuclear wastes
- 420 Lead
- 430 Loss of forests
- 515 Keep your facts at hand
- 546 Soil loss
- 590 Hunger and waste
- 599 Summary
- 612 The theories and principles of natural systems
- What is Sustainable?
- 672 Home gardens

Tape 2 Side A

- 230 lawns
- 407 Recipe books as mulch
- 423 History of lawns
- 575 Relationship between diversity and stability

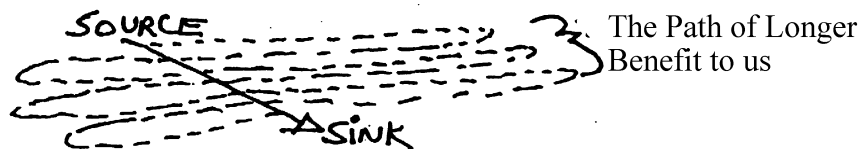
Tape 2 Side A

600 Rightful placement of elements



Tape 2 Side B

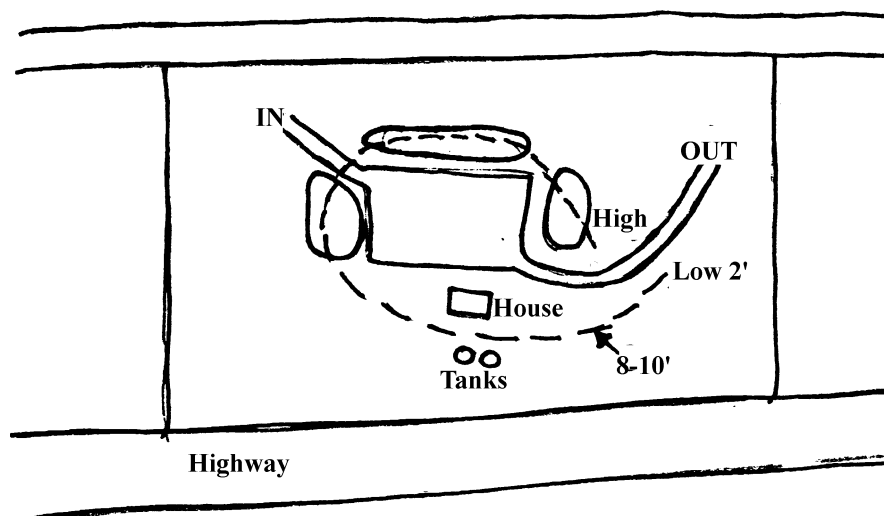
000 Design directives
 088 Limits to design
 120 Creativity
 150 Real world and human structured world
 200 Grapes over canal
 280 Pattern of elements
 290 observation in design
 405



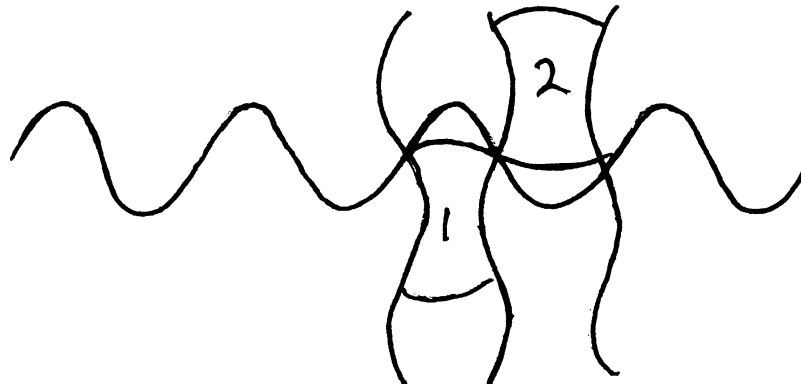
507 Techniques
 515 Strategies
 528 Design
 555 How we observe
 600 Seek more information
 620 Generalise
 640 Re-observe
 666 Page ranch Arizona

Tape 3 Side A

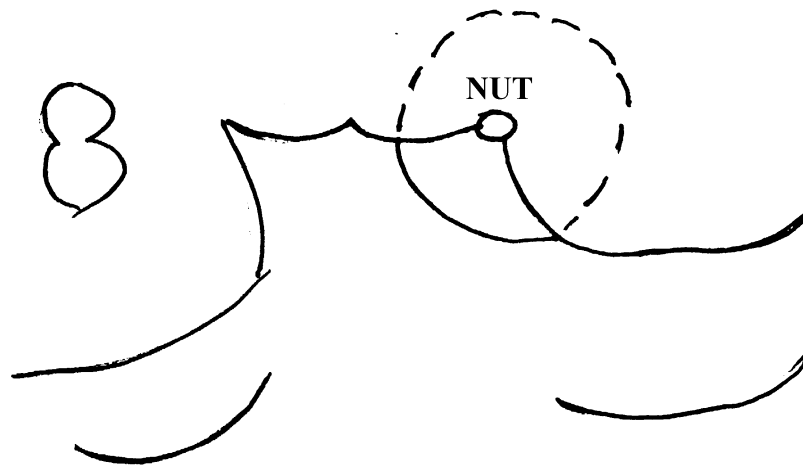
000 Speculation
 200 Generalisations (snails)
 510 Indian songs and pattern
 554 Example of pattern



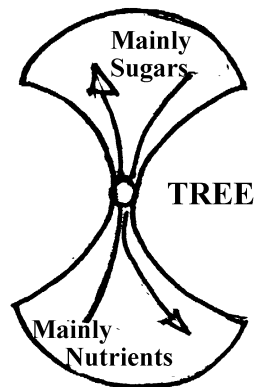
Tape 3 Side A
620 Pattern theory



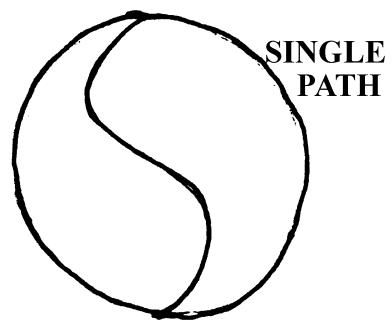
660



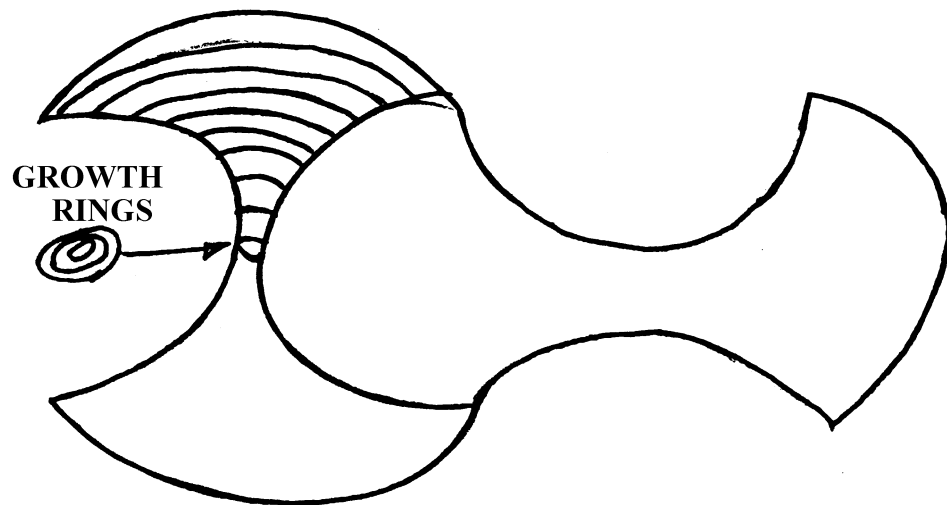
695



Tape 3 Side B
010



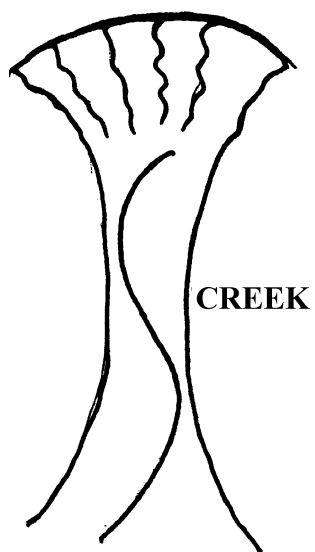
025 two wrapped together (695 above) is a tennis ball
040



060



120



Tape 3 Side B

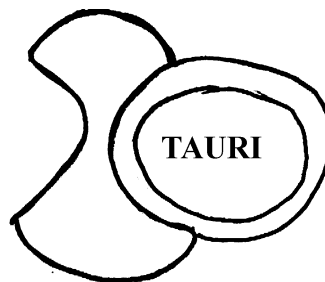
140 tree



150 Backbone of shark



200 Atomic Bomb



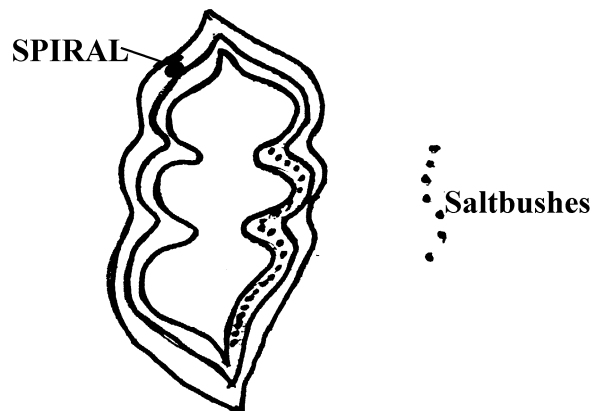
234 Herb garden in Permaculture 2



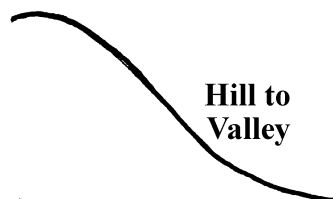
260

<p>1</p>	<p>295</p> <p>2</p>	<p>3</p> <p>Year Classes of Fish</p>
<p>4</p>	<p>335</p> <p>5</p>	<p>6</p> <p>Home Garden Celery Cactus Finger Lakes (Blueberries)</p>

Tape 3 Side B
513

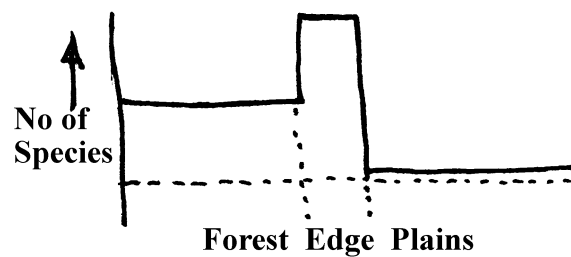


620

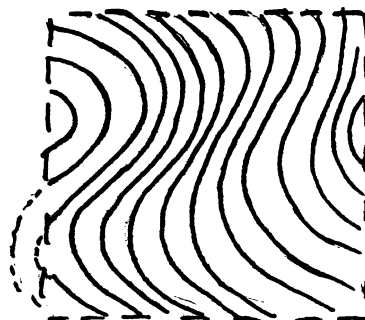


650 Edge

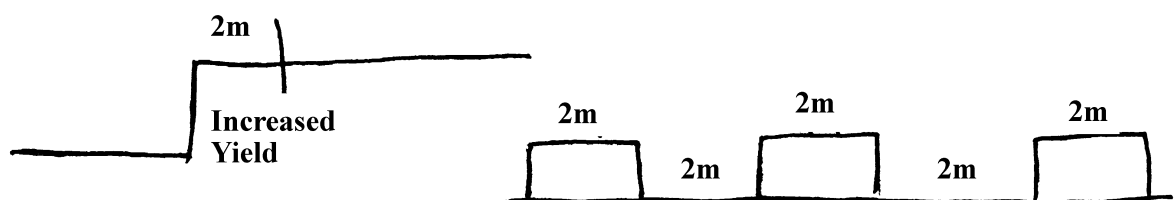
Tape 4 Side A



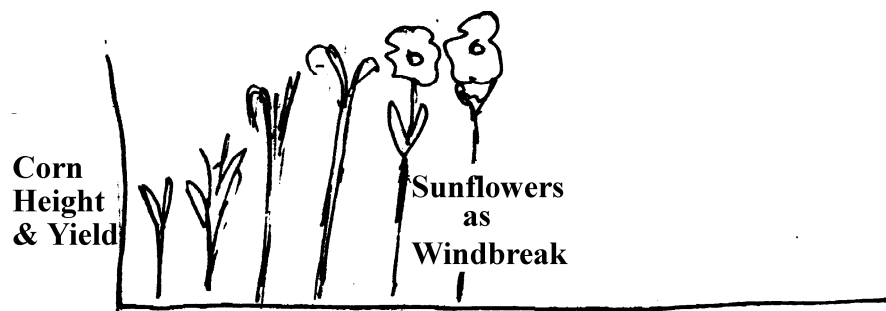
280 Harmonic plough



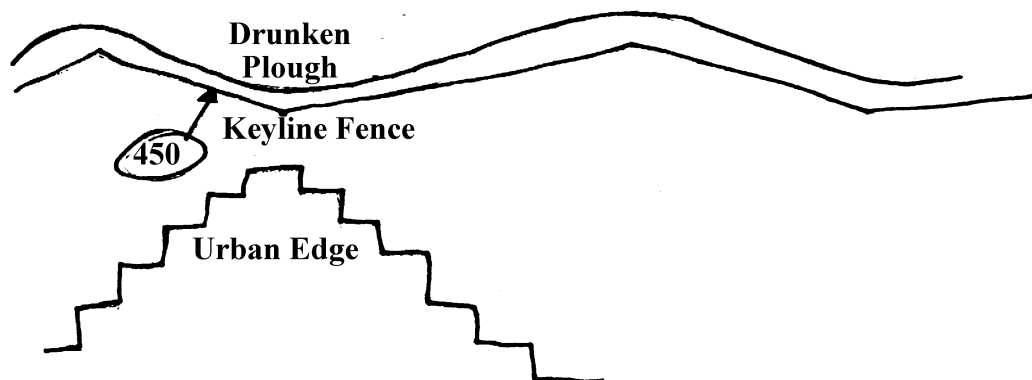
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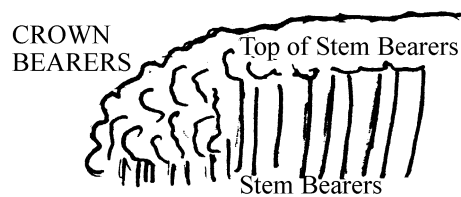
Tape 4 Side A
410



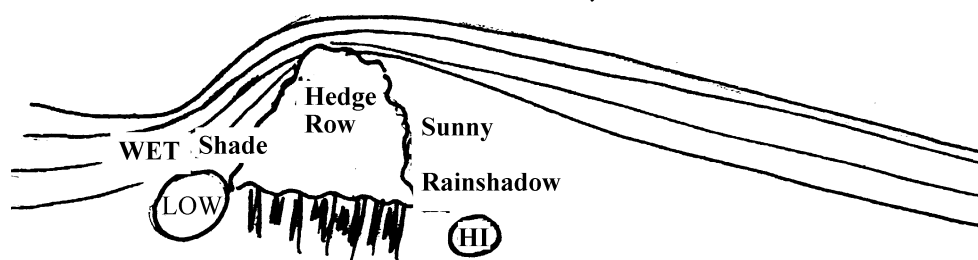
430



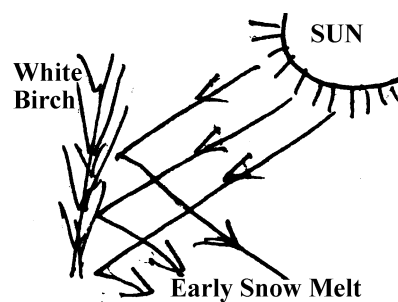
580



632

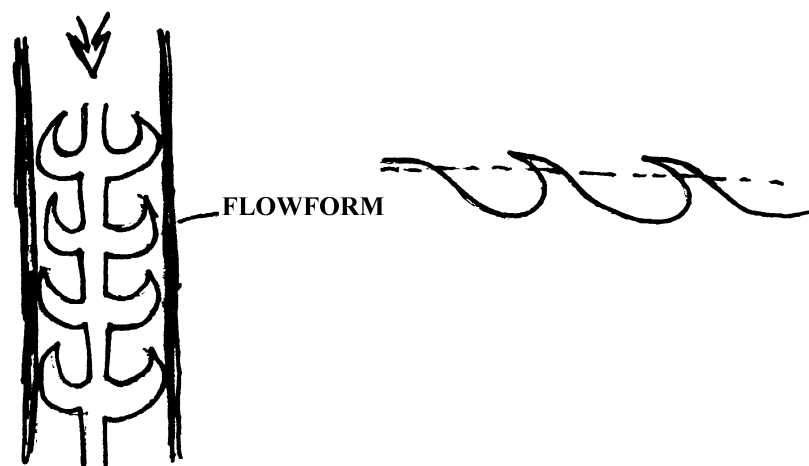


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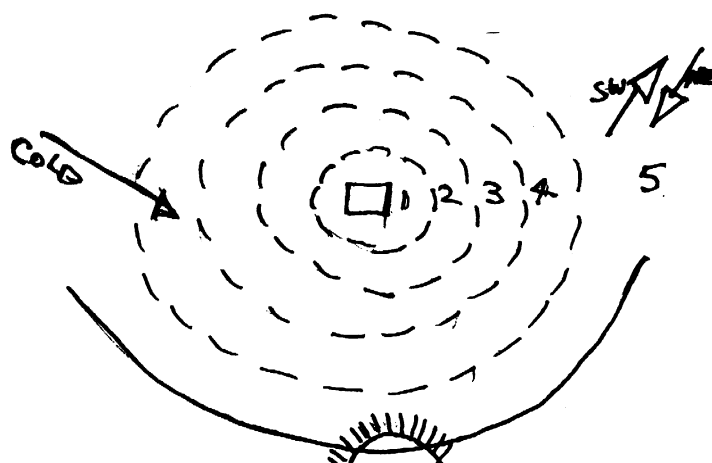


Tape 4 Side B

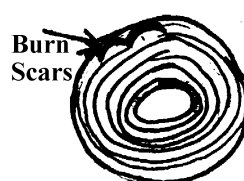
080 The mature system will always exploit the immature system
100 matrix for perennials as companions
400



585 Zoning, Aspect and Orientation
590

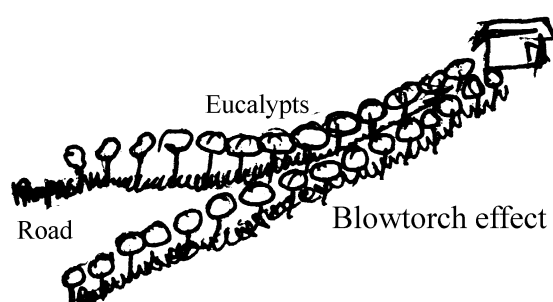


715



Tape 5 Side A

000 Sector plan
050 blowtorch effect



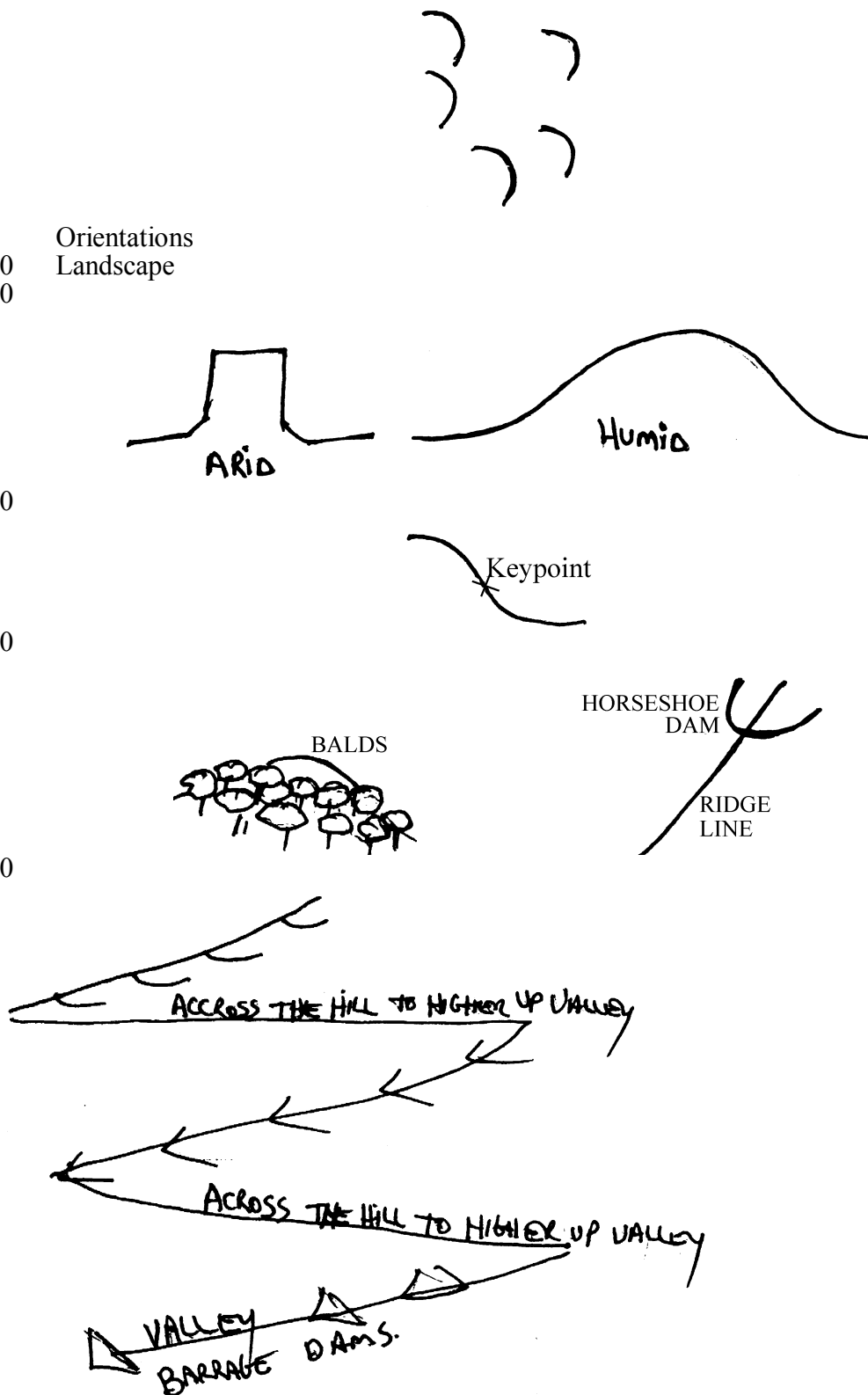
155 Wilcha

350 Orientations
370 Landscape

390

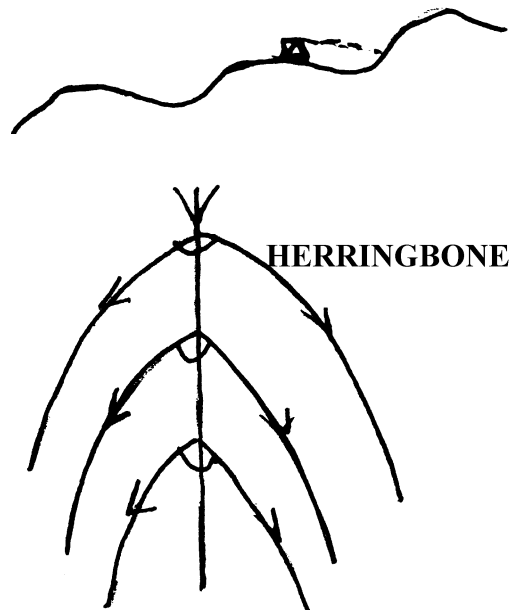
420

630

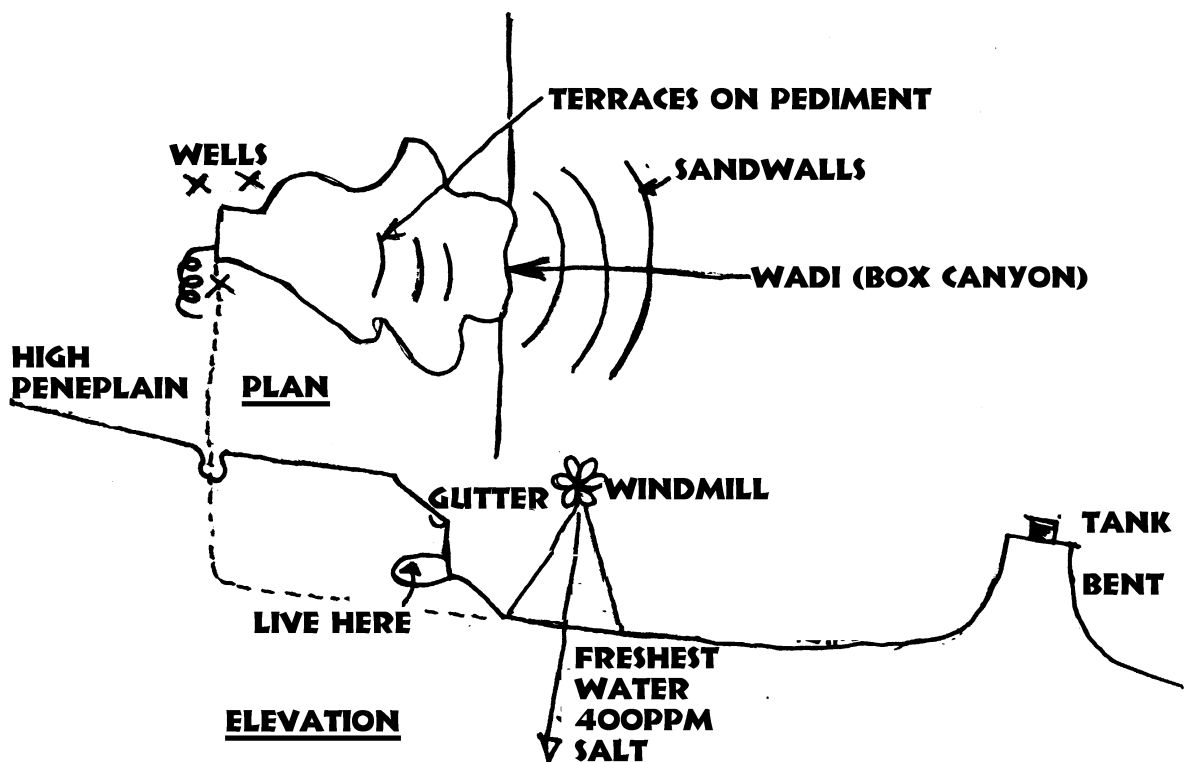


Tape 5 Side B
260 Land other than classic

325



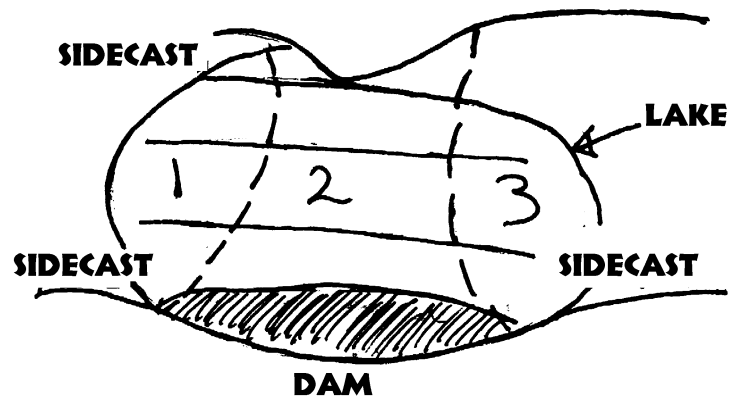
400



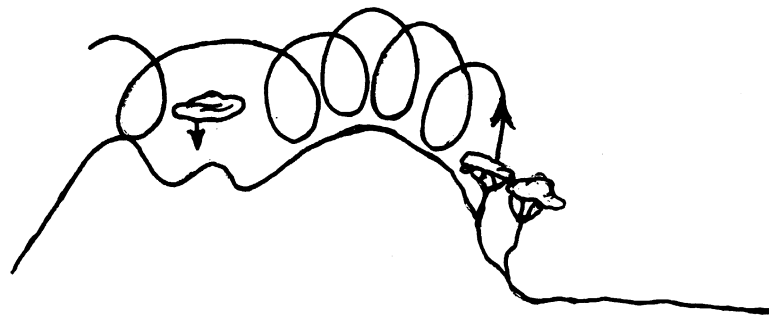
624 Desert of residuals



Tape 6 Side A
150



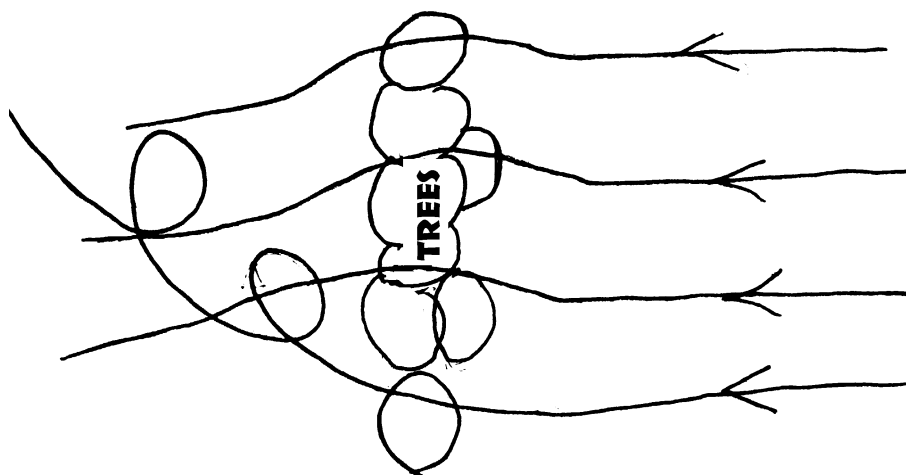
285 Themes in landscape-water
310



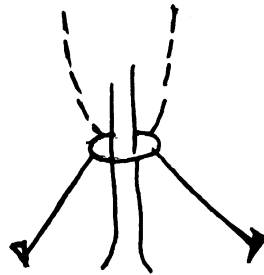
460



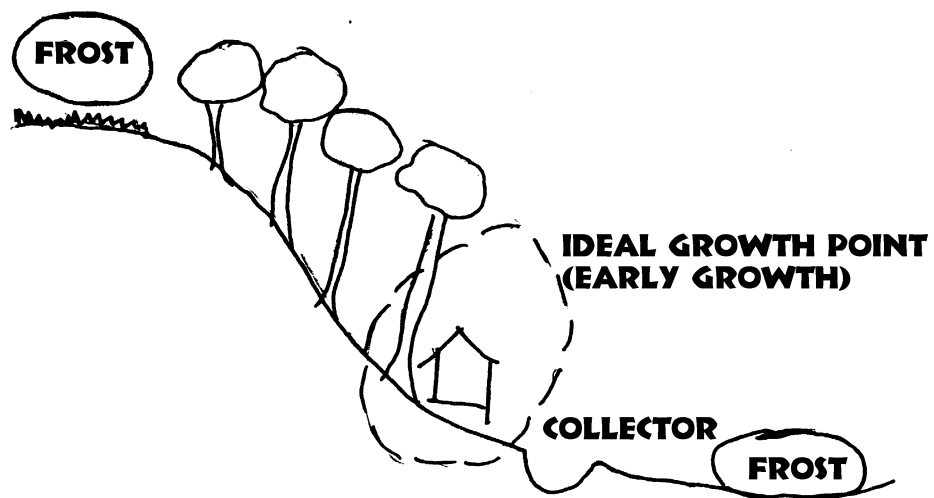
480



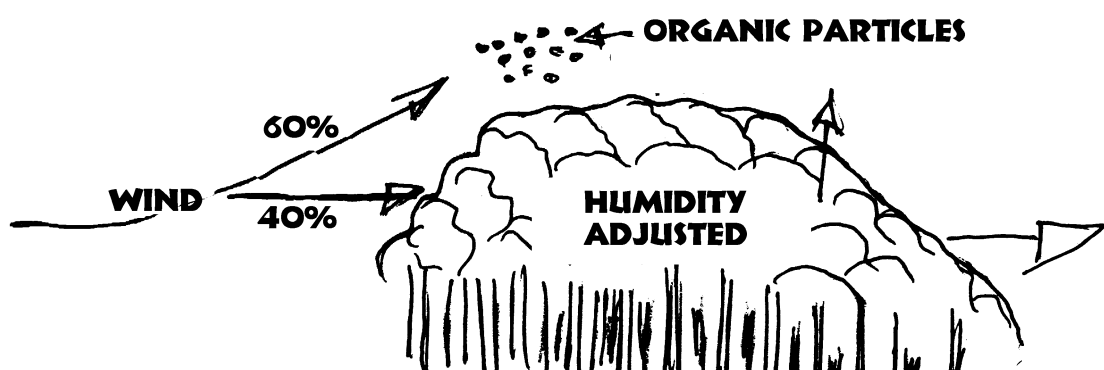
Tape 6 Side A
680



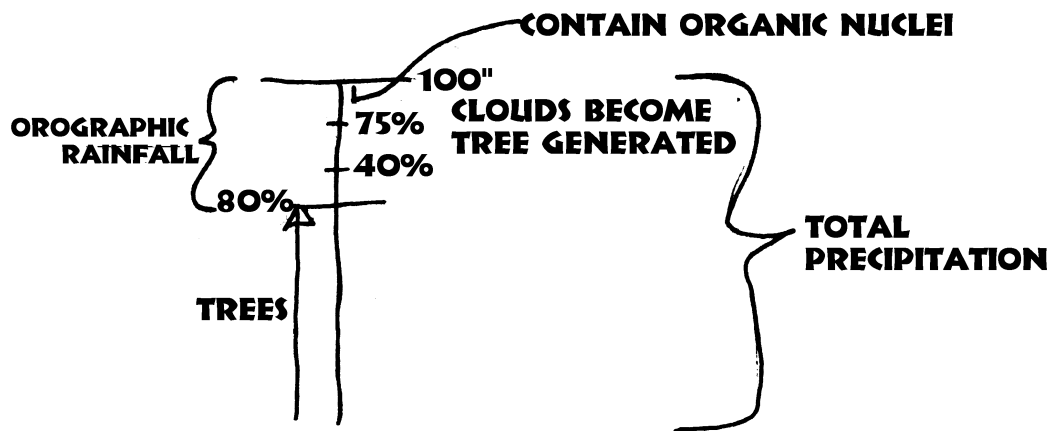
Tape 6 Side B
000



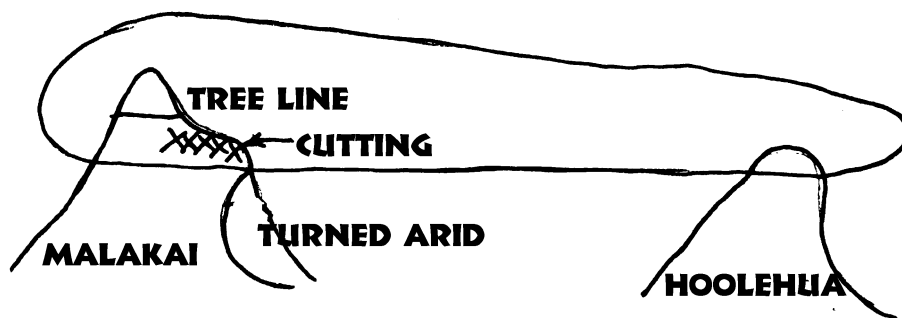
090



Tape 6 Side B
345



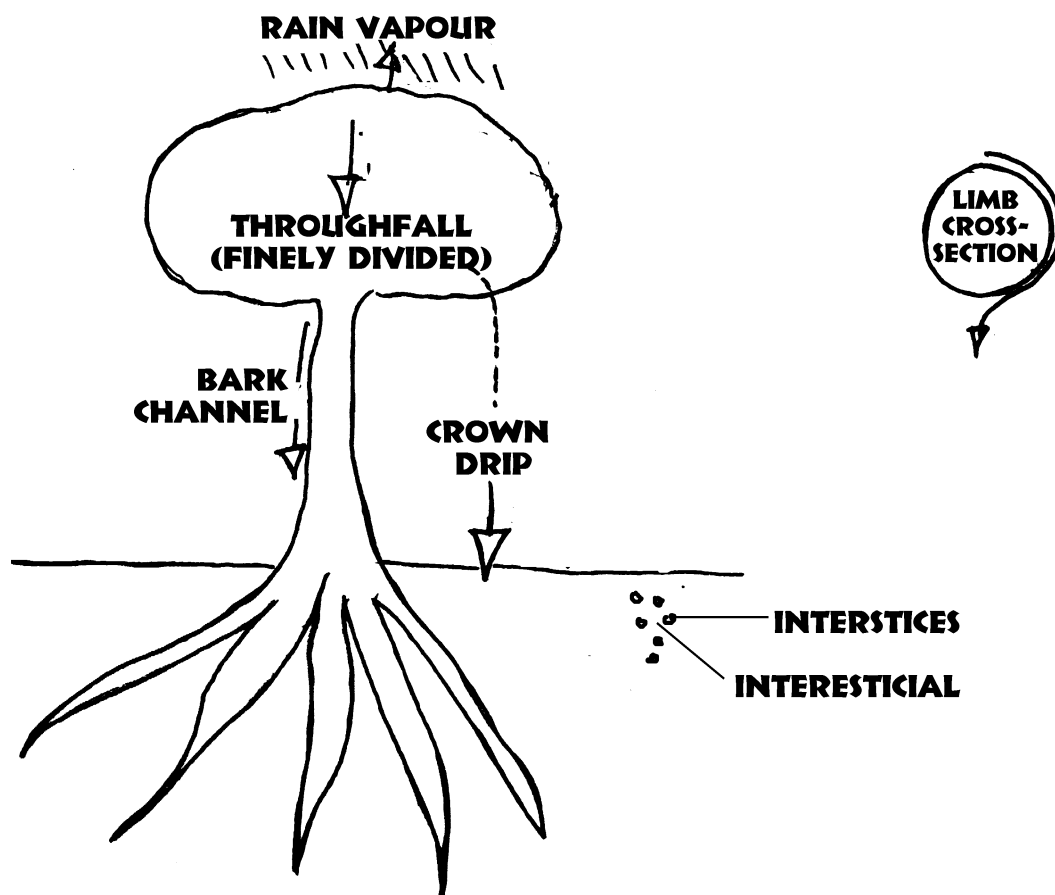
Tape 6 Side B
400



525



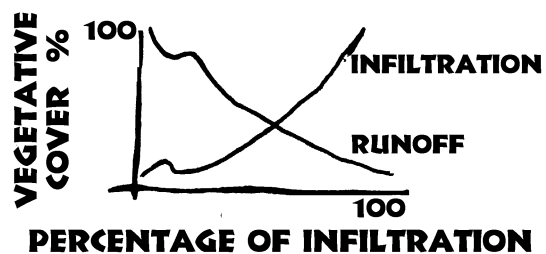
Tape 6 Side B
600



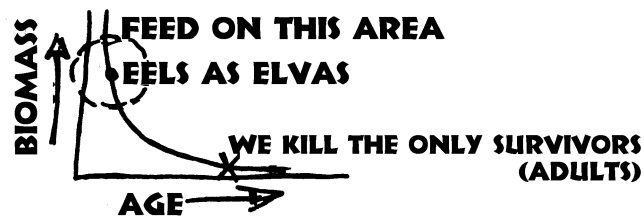
Tape 7 Side A
300



454



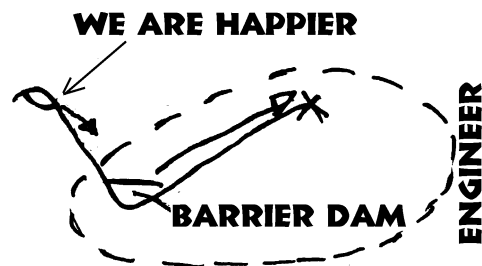
Tape 7 Side A
600



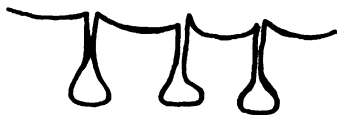
Tape 7 Side B
000 The duties of water
040

5 REUSES OF WATER
Uleee →

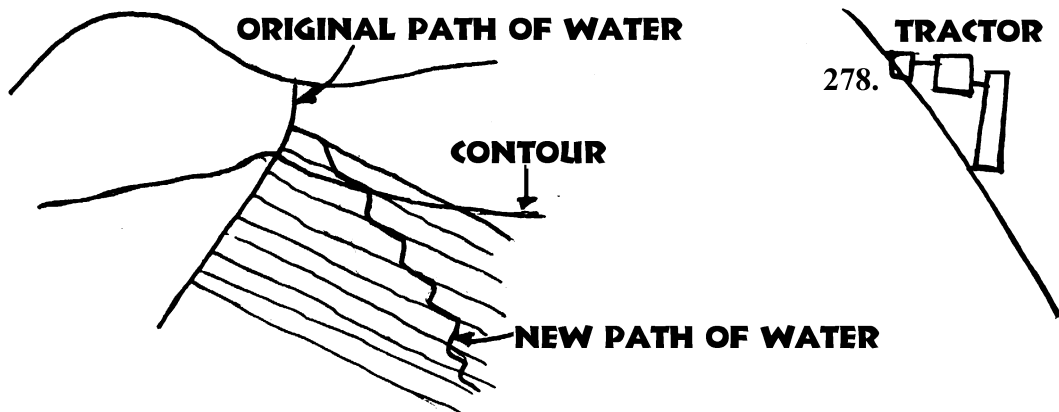
062



130 Soil rehabilitation and swaling



165



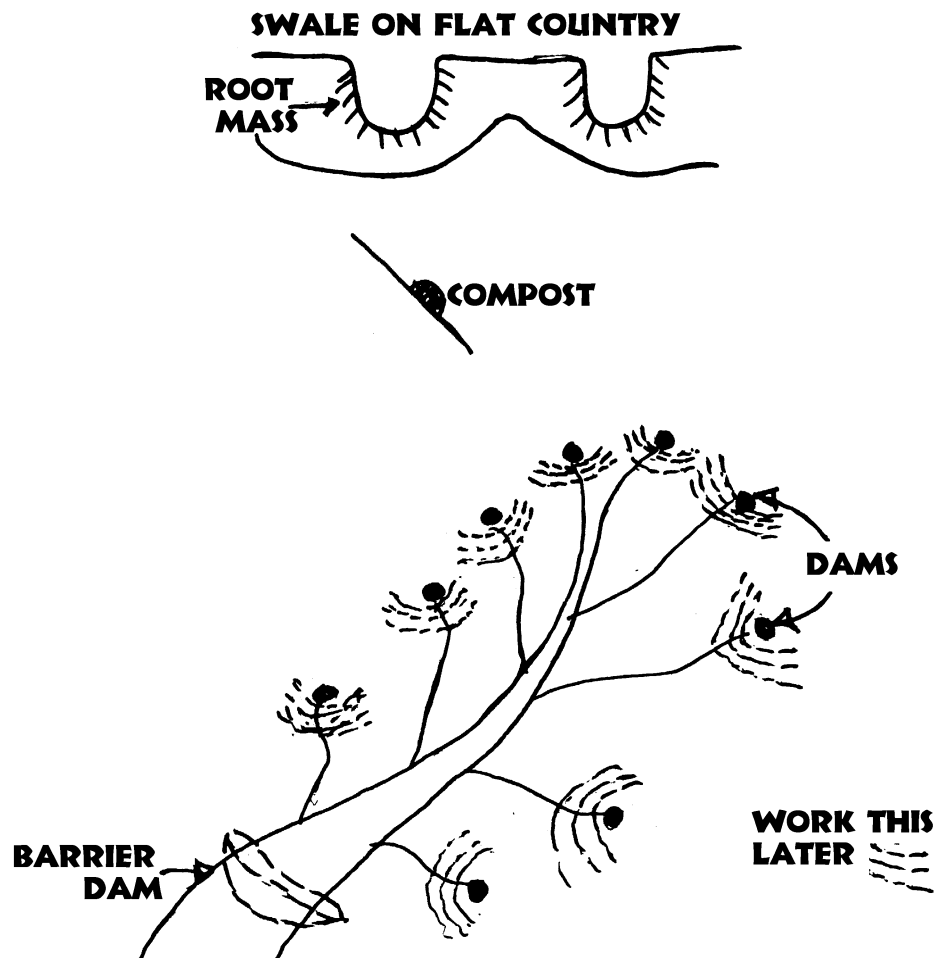
285



Tape 7 Side B
340

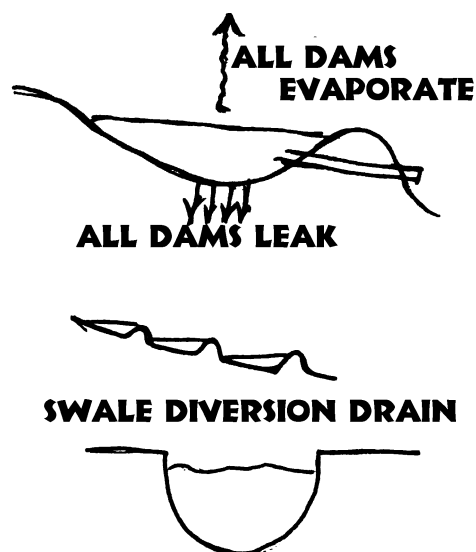
390

550



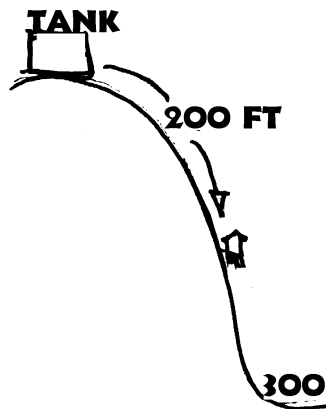
Tape 8 Side A
132

227

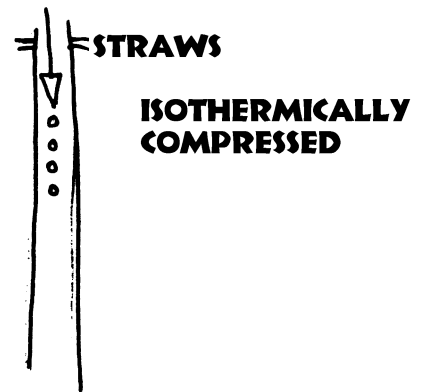


310 the highest duty of water is to proliferate life
419 Hydraulics - the direct use of water for energy

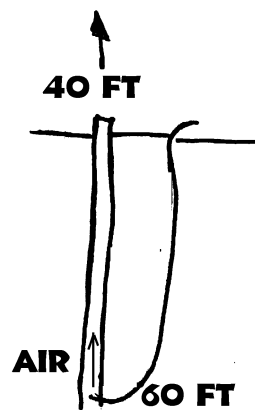
Tape 8 Side A
520 Water at height



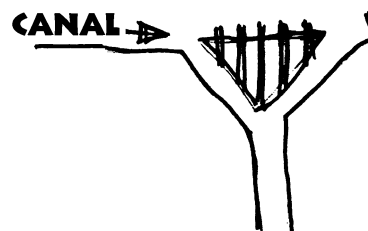
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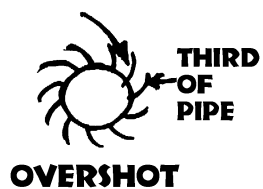
573



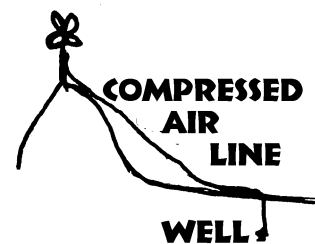
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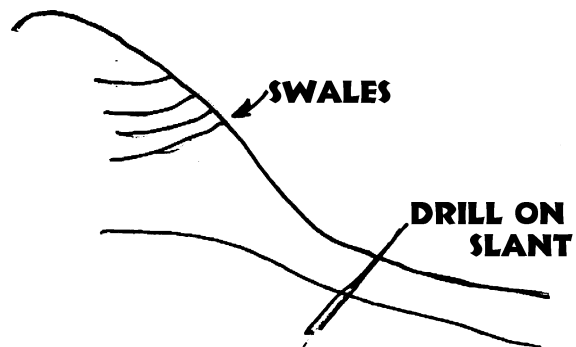
665



695



Tape 8 Side B
177 Slant boring



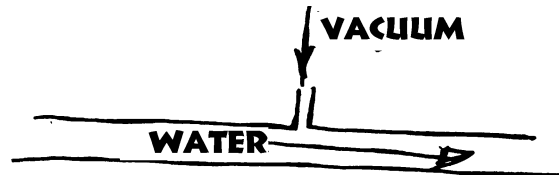
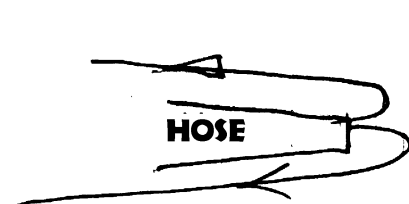
225

ONLY PLACE IT MAKES
SENSE TO BORE
VERTICALLY

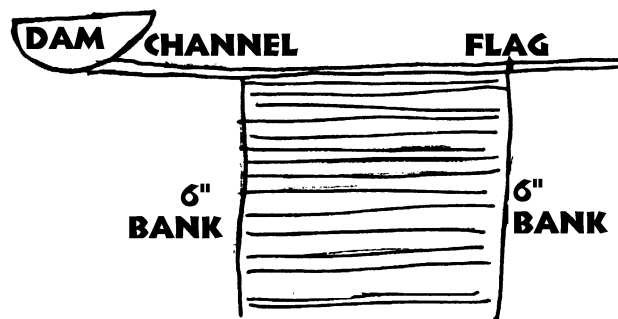


237

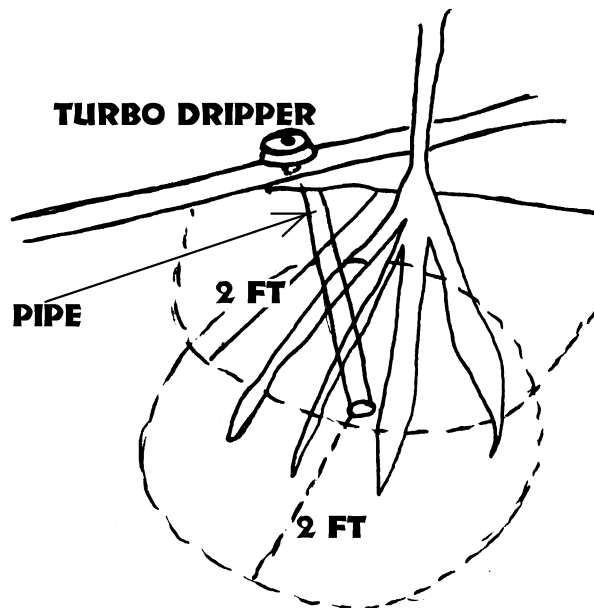
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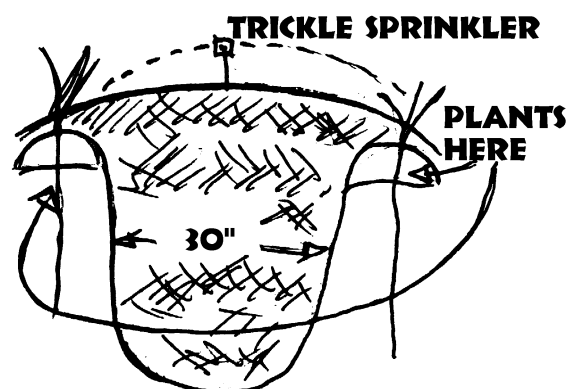
434 Irrigation
450



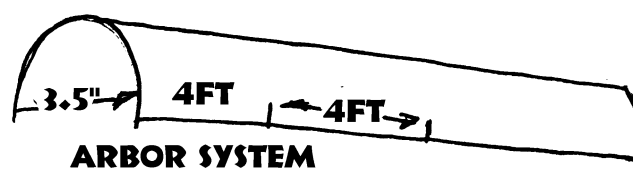
Tape 8 Side B
472 Drip Irrigation



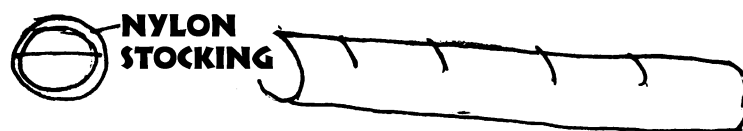
530



689



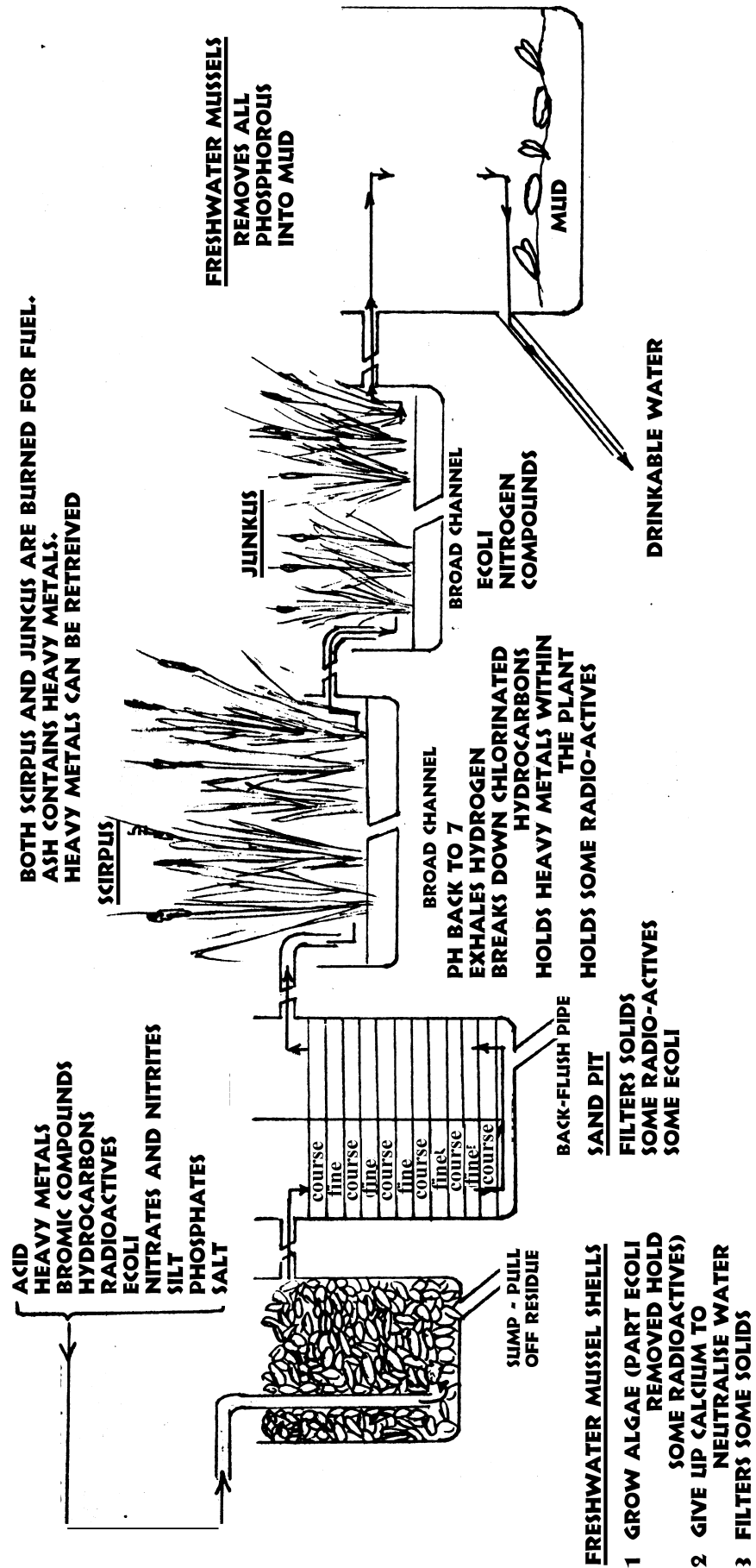
Tape 9 Side A
055 Leeflang system



120



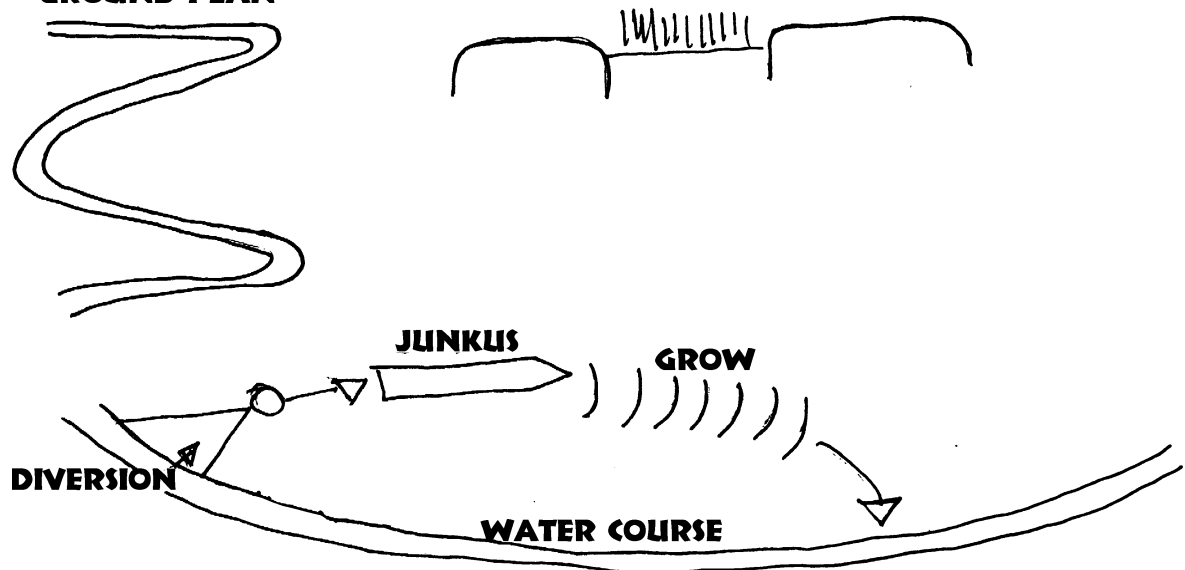
BIOLOGICAL WATER FILTER CLEANING POLLUTION



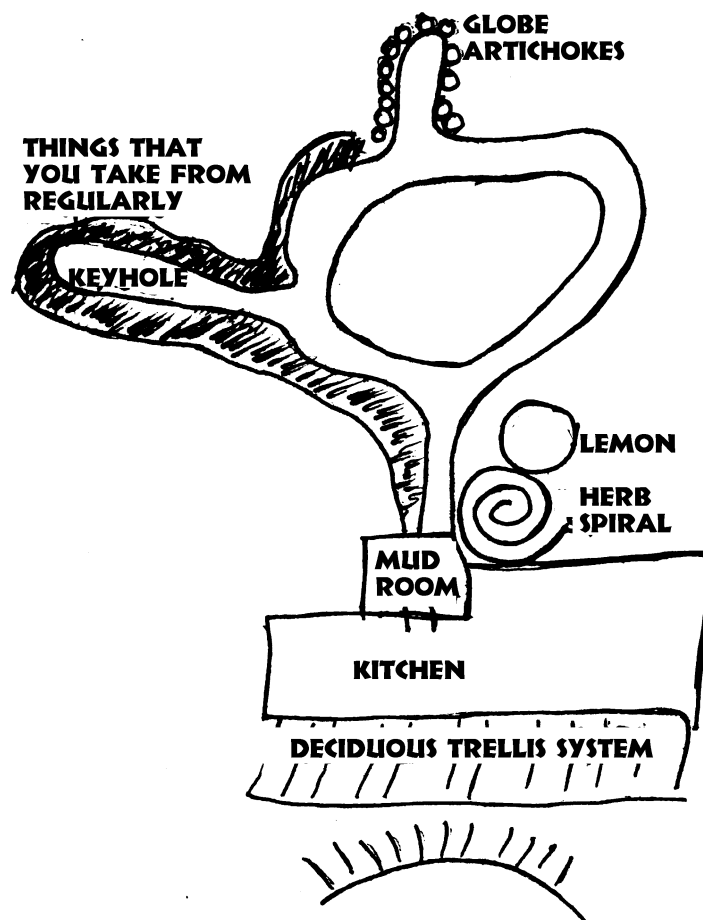
Tape 9 Side A

457

GROUND PLAN



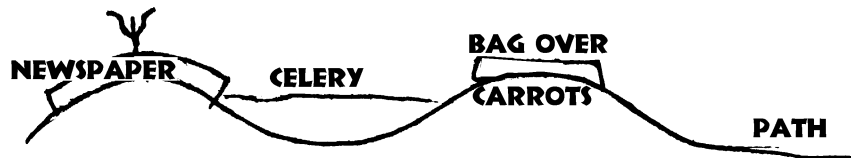
520 Home garden



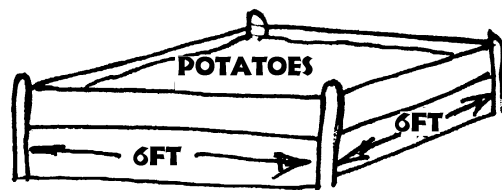
Tape 9 Side B
024



085



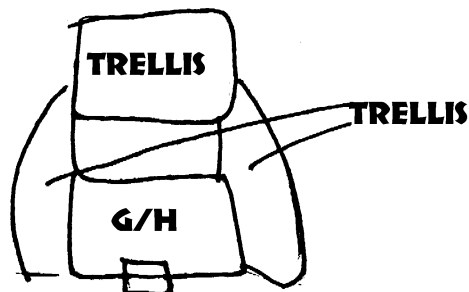
145



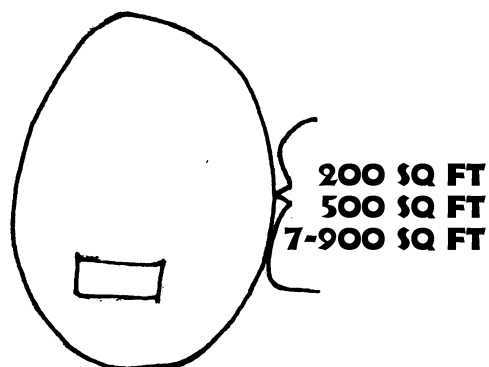
170 puckhoe purple



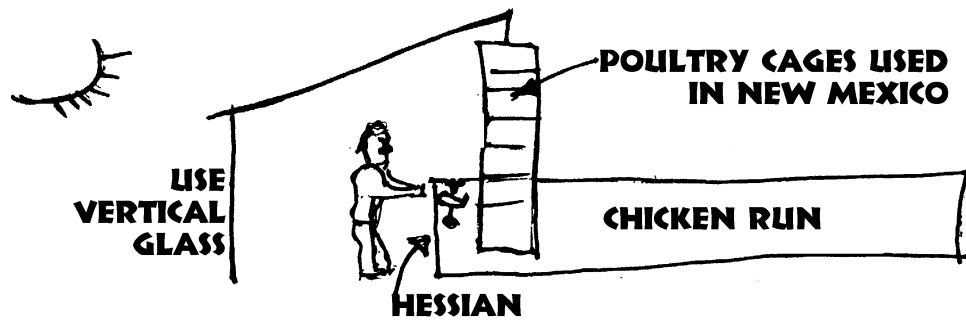
207 pikokea (taro)
440



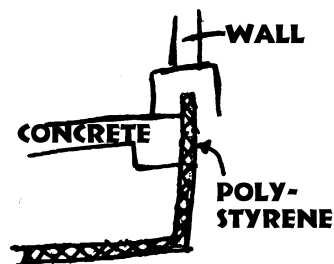
577



Tape 10 Side A
090

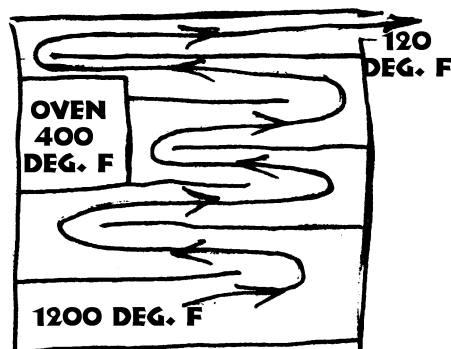


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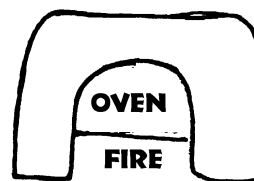


315

410 Sietz Leeftang, De Twaalf Ambachten, Esschebaan 9a 5285 Jk Boxtel, Holland



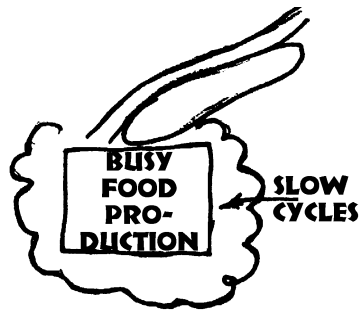
620



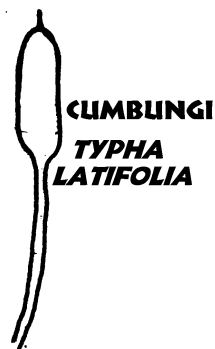
700



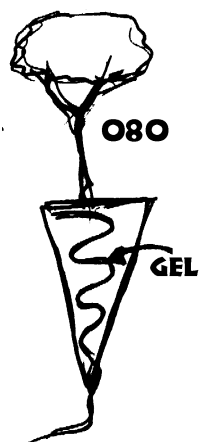
Tape 10 Side B
050



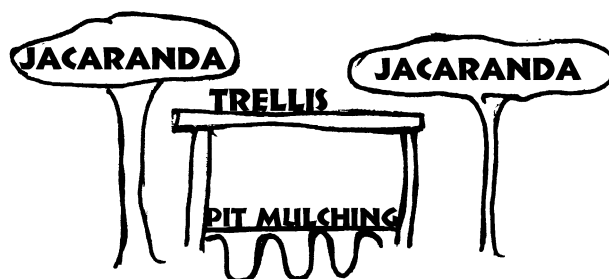
416



Tape 11 Side A
050 Arid land systems



400

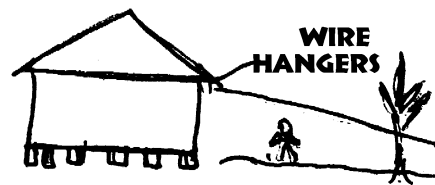


419



Tape 11 Side A

463



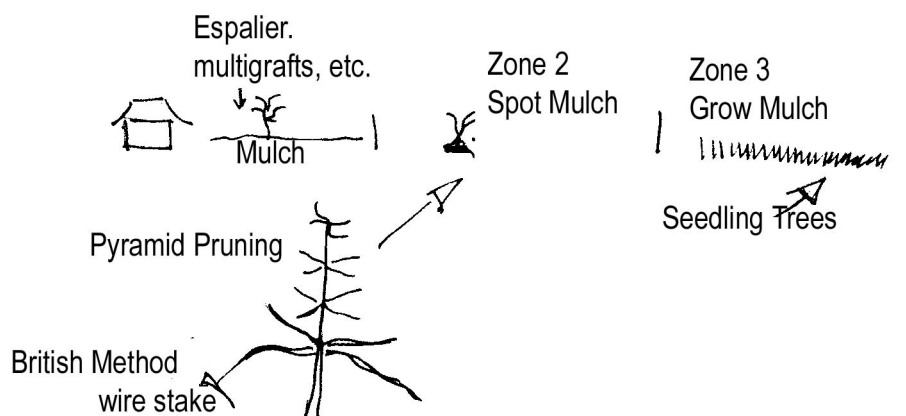
506



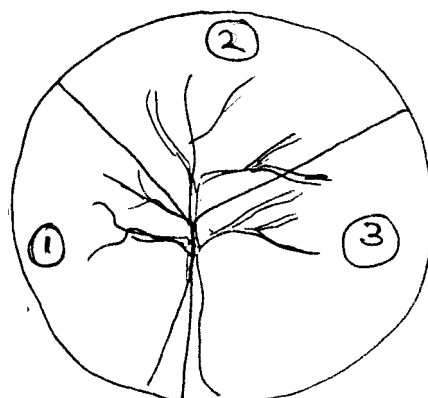
- 644 Rampancy C3 - ordinary plants
C4 - use less water
CAM - combination

Tape 11 Side B

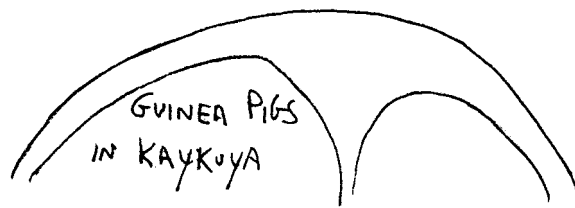
520



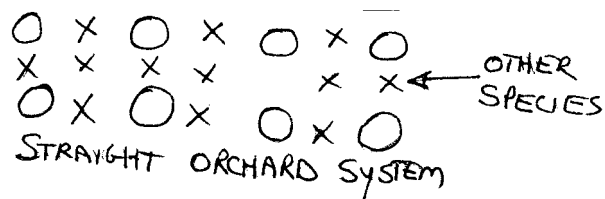
- 559 Even yield – alternate pruning over 3 years



635



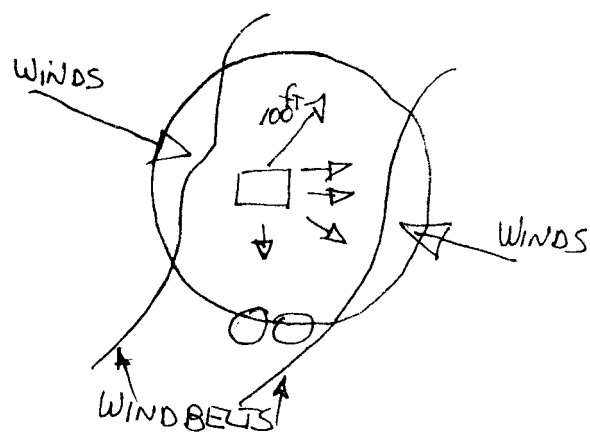
690



Tape 12 Side A

100 quillayja

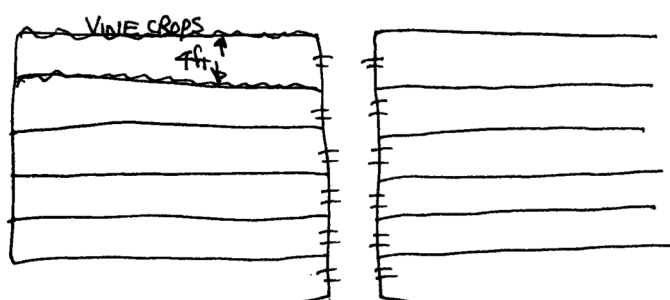
350 bee systems



530 Poultry systems

Tape 12 Side B

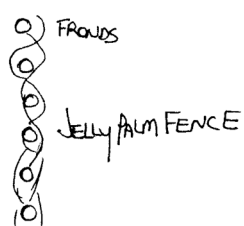
327 Chicken tractor



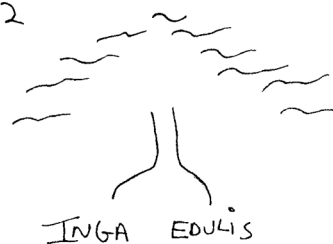
450

pigs

481



512



TAPE 12 B (CONT.)

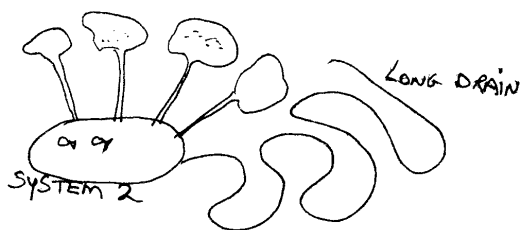
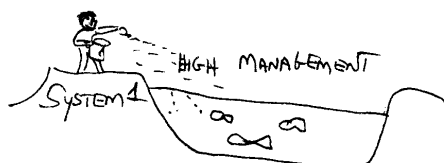
565



TAPE 13 A

044 BARGYLA RATEAVER

515 FISH CULTURE



560 SWAMP

System 3

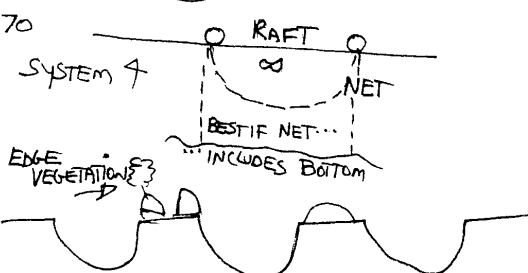
TAPE 13 B

335



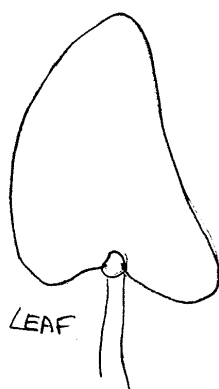
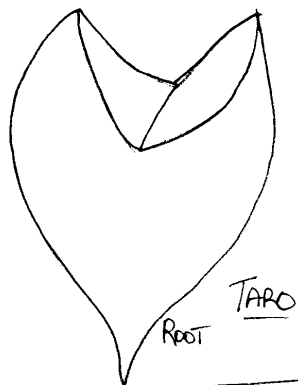
570

System 4

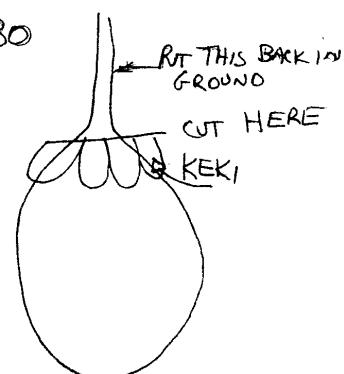


TAPE 14 A

350



430



490



495

POND SHRIMP
LARGE PRAWNS

AZOLLEA

TARO

TRELLIS

630 CHINAMPAS

697

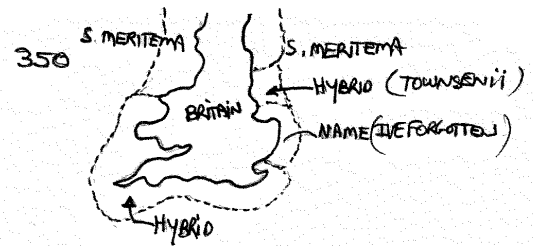
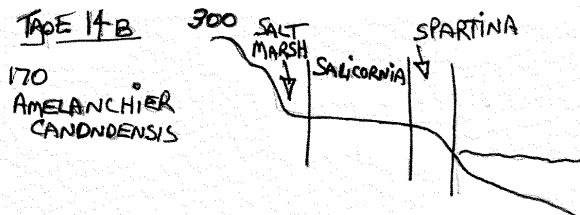
CHANNEL SYSTEMS

MUD
AZOLLEA
NUTRIENTS

HARVESTING FROM
BOAT

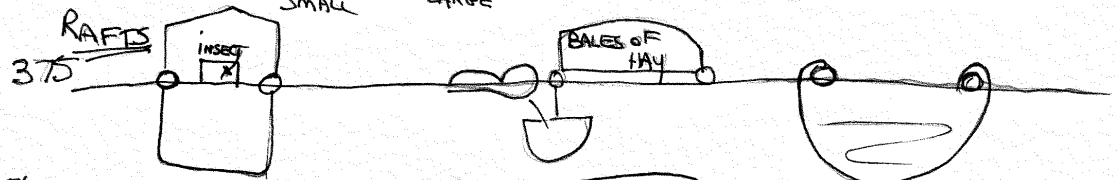
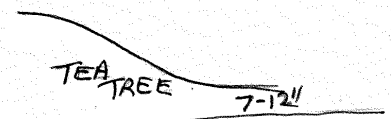
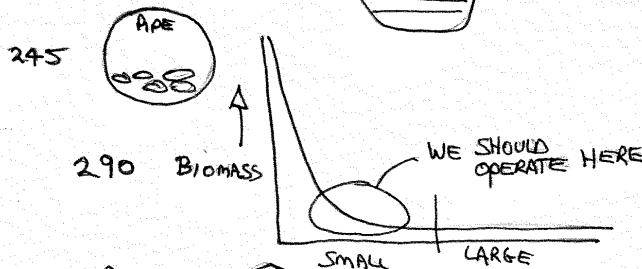
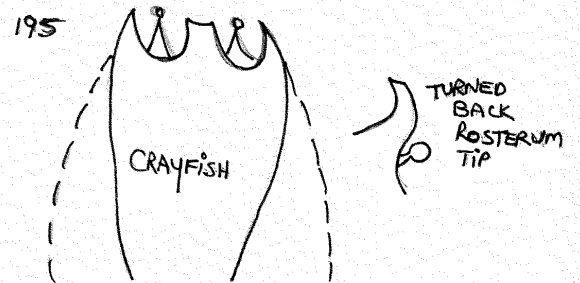
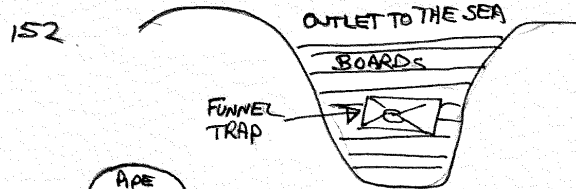
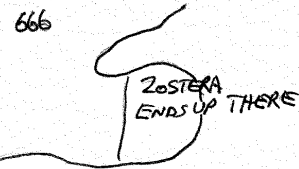
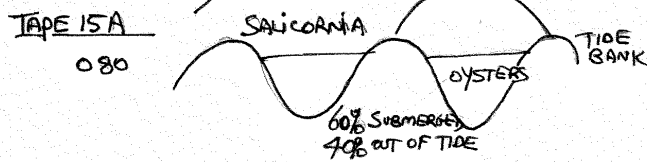
BLUE
BERRIES

SOME WIDER



442 ZOSTERA, HETROZOSTERA, POSIDENEA

622



560 WILD RICE ZIZANIA AQUATICA
WILDLIFE NURSERIES
PO BOX 2729 OSHKOSH WI 54903 USA

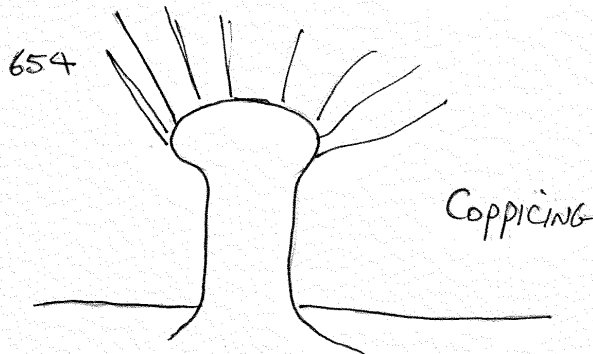
580 CRAYFISH
MINKS
BEAVER ETC

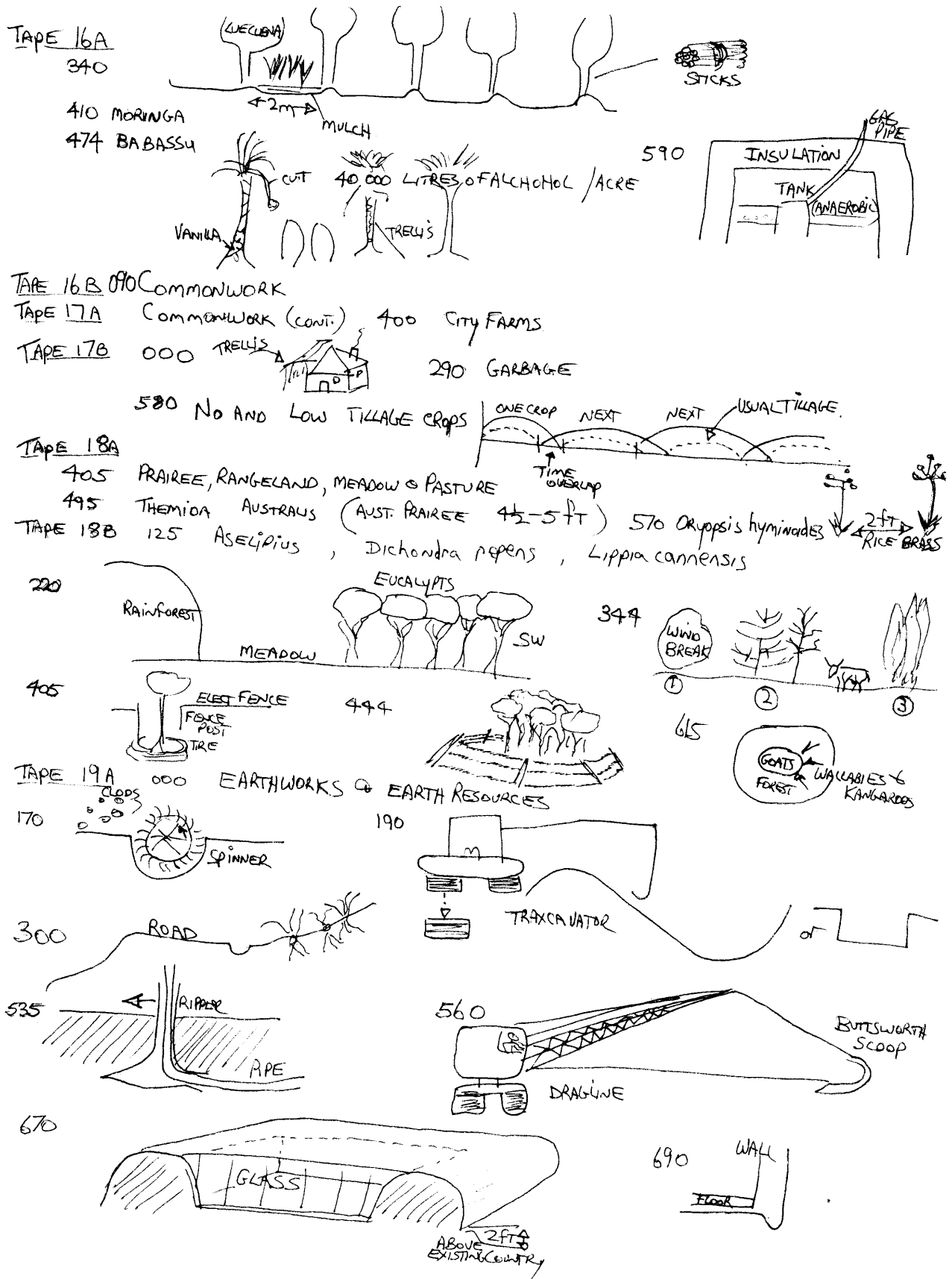
650 FORESTS

Tape 15-B

320 BAMBOO ROOF

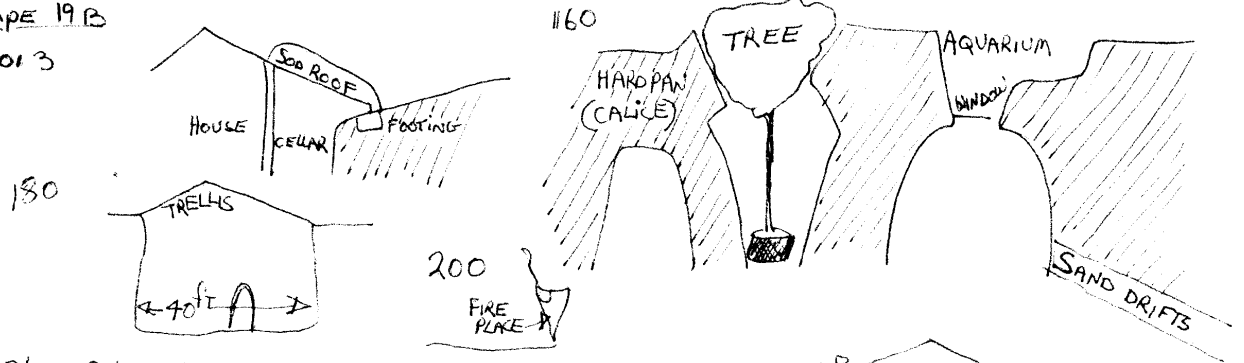
630 giberellic
malic
Salicylic } acids



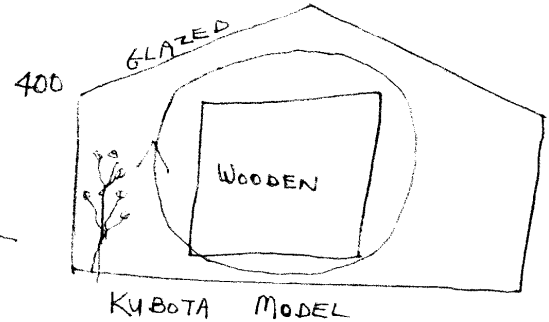
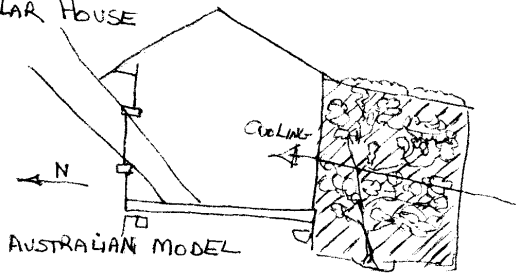


Tape 19 B

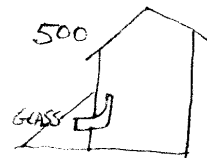
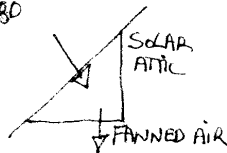
013



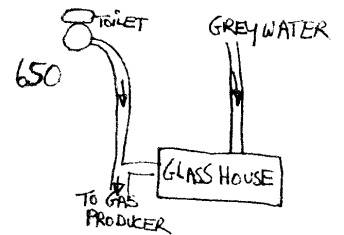
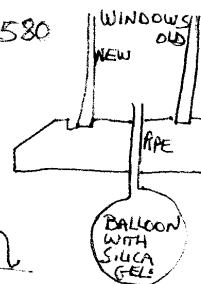
260 SOLAR HOUSE



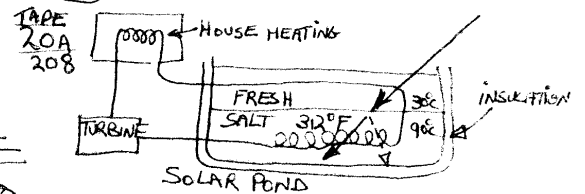
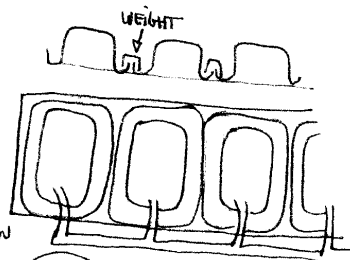
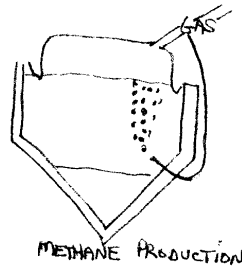
480



580



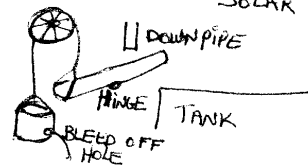
660



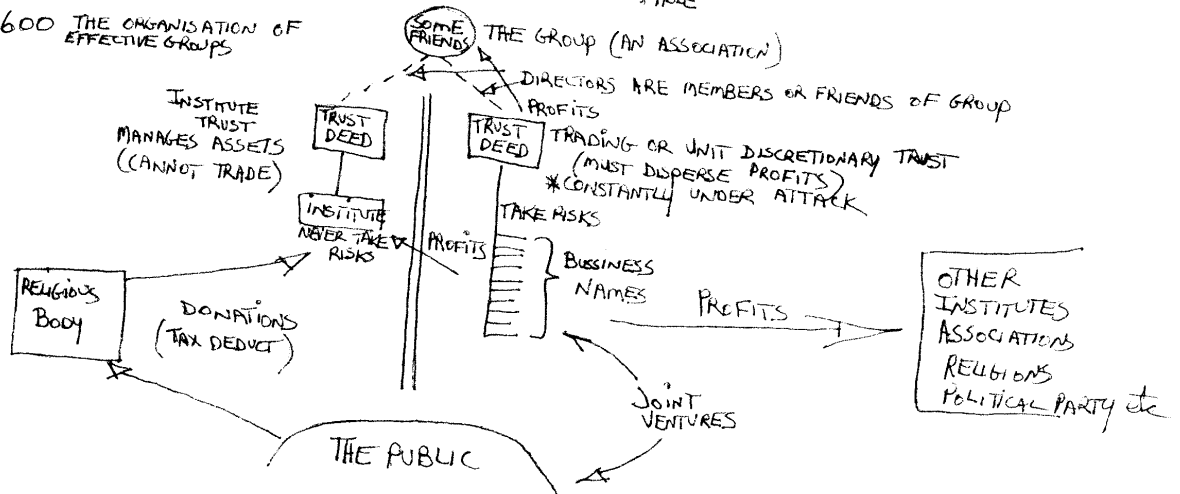
Tape 20 A
420

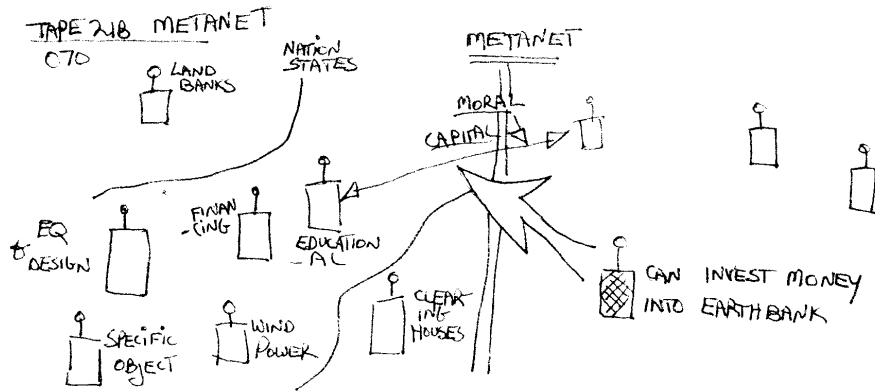


470



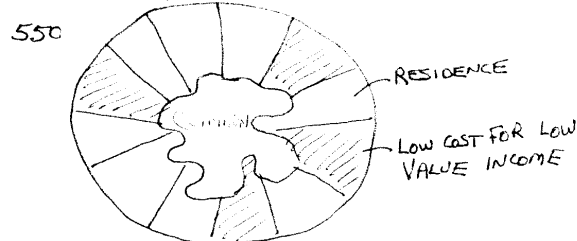
600 THE ORGANISATION OF EFFECTIVE GROUPS





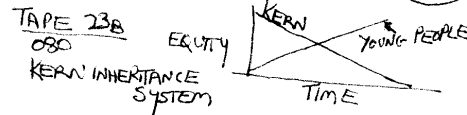
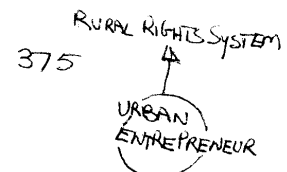
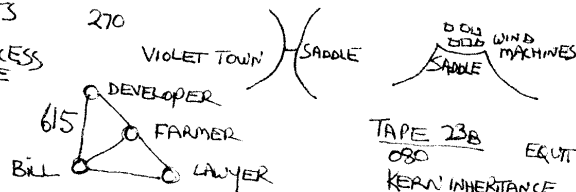
TAPE 22A

532 ACCESS TO LAND ① OXFAM LAND PLEDGE 620 ② FARM-LAND LINK TAPE 22B 290 ③ FARM CLUB
 TAPE 22B 530 ④ LIMITED LIABILITY Co & CommonWORKS



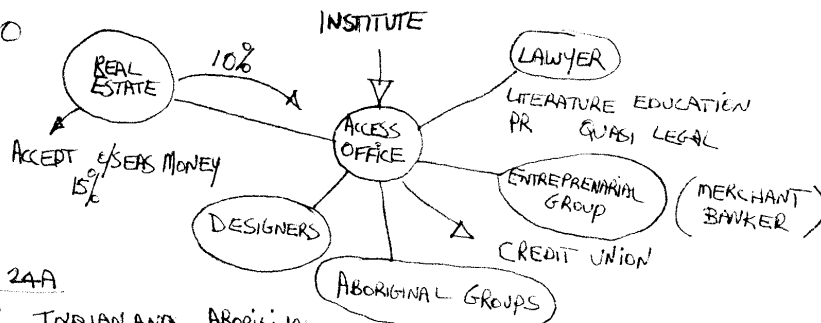
TAPE 23A

220 ⑤ RIGHTS
 528 LAND ACCESS OFFICE



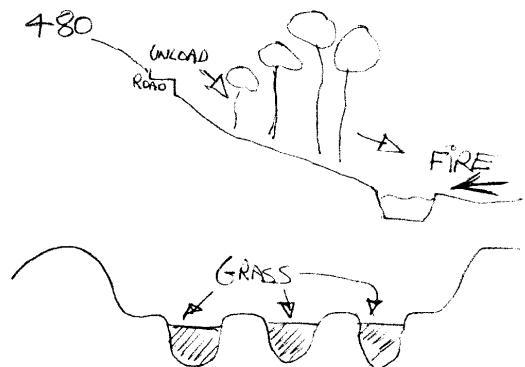
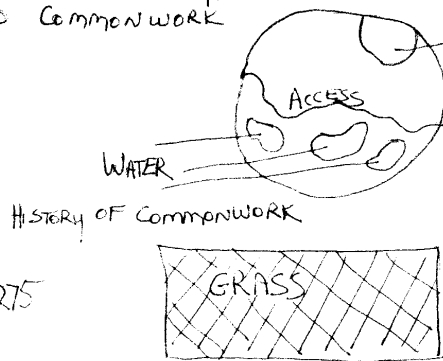
TAPE 23B

430



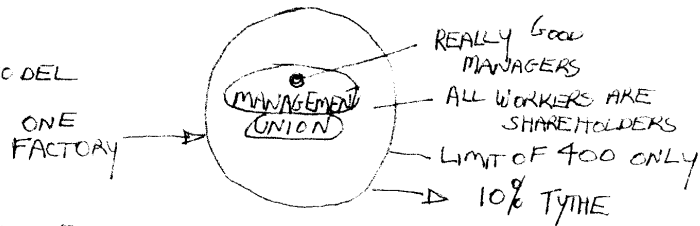
TAPE 24A

260 INDIAN AND ABORIGINAL GROUPS
 440 CommonWORK



TAPE 24B

510 MONDRAGON MODEL



TAPE 25A

310 BEYOND THE FISCAL ECONOMY
510 START OF COMMONWORK

630 DE LAUNING - RICHARD BOWLER ROCKPORT MASS.

TAPE 25B

220 FIRE CONTROL

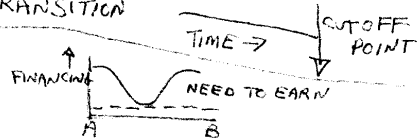
375 LAND PLANNING POLICY



670 TRANSITION

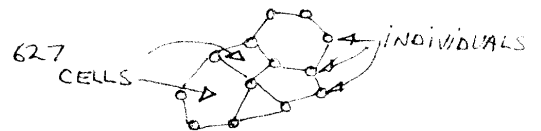
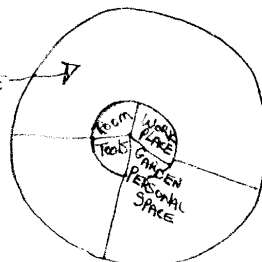
TAPE 26A

085



344 CEDAR

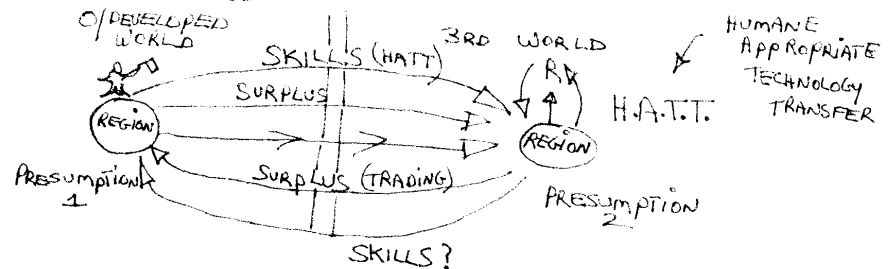
400 COMMUNITY SPACE



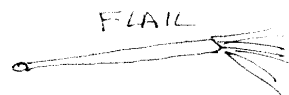
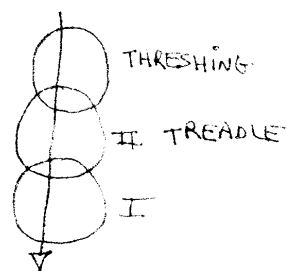
TAPE 26B

480 MELIA AZEDARACH - NOT GOOD FOR PIGS

605 TRADE

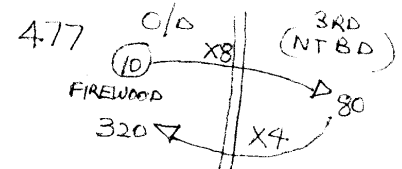
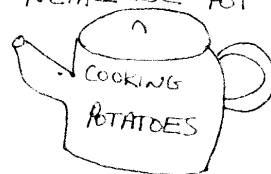


670



TAPE 27A

216 NEHALESE POT FOR...



TAPE 27B

082 COMMUNITY FINANCING

600 MONEY -DEFENITION

645 (THE GROUP)
COMMUNITY -
30 - 400

(DISTRICT)
BIO REGION
4,000 - 40,000

TAPE 28A

000 CONSERVATION CREDIT UNION
 280* S.H.A.R.E. PROGRAMME
 660 ENERGY BONDS

TAPE 28B

130 FEDERAL & CONTINENTAL & INSURANCE
 230 MERCHANT BANKS
 294 COOPERATIVES (MANUFACTURING)
 COMMON WORK (PRIMARY & SERVICES)
 350 INVESTMENT (GOOD MONEY)
 600 PROSCRIPTIONS

ARMAMENTS (OFFENSIVE) NUCLEAR OR BIOLOGICAL
 BIOCIDES, ADDICTIVE SUBSTANCES or MACHINES
 EXPLOITIVE COMPANIES, NON EMPLOYEE INVOLVEMENT
 EMPLOYERS MONOCULTURE & CLEARING

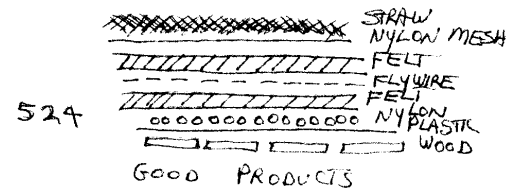
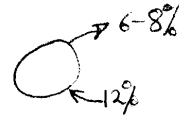
TAPE 29A

100 LIMITED LIABILITY — RISK CAPITAL
 165 TAXATION AND TRADE INCENTIVES
 359 PRESALE — ZOO ZOO'S RESTAURANT
 694 SELF FINANCING

TAPE 29B

030 PRINTING YOUR OWN CURRENCY 680 BARTER AND SWEAT EQUITY

070

PRESCRIPTIONS

DURABLE, REPAIRABLE,
 CONSERVATIVE,
 DOMESTIC } SELF RELIANCE
 COMMUNITY }