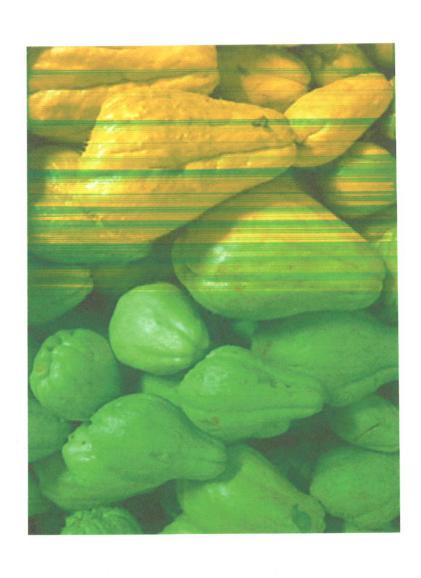
Choko Farm Permaculture Design



Nevin Sweeney

Table 113 – House checklist

Too hot in summer	Insulate ceiling	Done
	Pergola and vines	Possibility for kitchen dining
	_	room area
	Deciduous trees	In place for third bedroom
		(mulberry)
	Shady verandas	Possibility for kitchen dining
		area, deck already in place
	Breezeways/corridors	N/A
	Solar fans	Possibility, ceiling fans already
		in bedrooms & lounge
	Cool air tunnels	Difficult
	Deciduous creepers	Grapes possible at front of
		house
A A A A A A A A A A A A A A A A A A A	Shade house with plants	Difficult
Too cold in winter	Insulation	In place in ceiling
Too cola III Willico	Double glazing on coolest side	Shutters and polystyrene bats
	Boarie glazing on economic	in place for windows, no south
		facing windows
	Thermal mass in doors and	N/A
	walls	
	Lined curtains and pelmets	Curtains, shutters and
	Zimea cartama ana pomisis	polystyrene batts
	70% glass wall on sunny side	N/A
	Compact house	Youbetcha – 12 squares
	Gap sealing	Done
	Glasshouse to sunny side	Difficult
Too humid	Not applicable	
	Not applicable	
Too dry Artificial light during the day	Work in better lit room	Yup
Artificial light during the day		Possibility
Name of the state	Skylights Paint walls a light colour	Done where appropriate
		Done where appropriate
	Light furnishings	N/A
	Replace veranda with pergola	N/A
	Insert wall or glass door	We use 12 volt lights `
Severe winds	Build mounds	N/A
	Plant windbreaks	N/A
	Insulation	Done
	Trellises	Possibility – tracks in front of
		garage
	Sun traps	Glasshouse
Pollutants – exterior/interior	Dense fine leaf plants	Possibility
	Change to natural materials	Most stuff is older and well past
		the outgassing stage
	Improve ventilation	See above
	Cook own food	Youbetcha
	Prepare own cosmetics and	Low use of cosmetic and
	medicines	medicines – small number of

		prescription meds – home production difficult				
Other house problems: Noise	Fences	In place where appropriate				
	Insulation	Ditto				
	Double glazing	Not required				
	Complain to responsible body	Youbetcha				
Poor work/leisure areas	Not applicable					
Sensory deprivation	Not applicable					
Chemicals: Furnishings, building materials paints	Change to natural fibres and dyes	Working on it				
	Mud brick; adobe; stone; wood	N/A				
	Whitewash and tints	N/A				
Cleaning agents	Natural glues, waxes and sealants	Working on it				
	Natural soap	We make our own				
	Borax	WTF				
	Methylated spirits	Working on it				
	Bicarb	Working on it				
	vinegar	We make our own				
Machines	Provide excellent air circulation	You got it!				
	Frequent rests	You got it!				

Water Consumption

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Av Daily Litres	Total Litres/ week	
Weekday/ Date	Mon	Tue	Wed	Thurs	Fri	Sat	Sun			
Washing up Pre- Rinse @ 6 litres/rinse	1	1	1	1	1.	1	1	6	42	
Washing up @ 10 litres/wash	2	3	2	3	2	3	2	25	170	
Shower (hair wash) @ 40 litres/shower	1		1		1		1	23	160	
Shower (quick) @ 20 itres/shower	1	1	1	1	1	1	1	20	140	
Toilet (full flush) @ 4.5 litres/flush	2	2	2	2	2	2	2	9	63	
Toilet (half flush) @ 3 litres/flush	3	3	3	3	3	3	3	9	63	
Washing machine @ 68 Litres/wash	3			2				48	340	
Cooking & drinking @ 7 litres/day	1	1	1	1	1	1	1	7	49	
Teeth cleaning @ 1 Litres/clean	1	2	1	2	1	2	1	1.5	10	
Shaving @ 2 Litres/shave	1			1				0.6	4	
Hand washing @ 1 Litres/wash	18	18	18	18	18	18	18	18	126	
Cleaning water (surface cleaning) @ 1Litres/day	1	1	1	1	1	1	1	1	7	
Pet Water (chooks/cats etc) @ 1 Litres/day			1	1	1	7				
Watering Garden (hose) @ 18 litres/min	ering Garden 20 20 e) @ 18				103	720				
Totals								272	1901	
Total yearly wat	er cons	sumptio	n (Total	weekly c	onsumpt	ion x 52)		1000	98852	
		June Quarter		mber er	Decen Quarte	nber	March Quarter		Ave for Year	
Average daily water usage from water bill (litres)	verage daily water 210 260 sage from water			258		336	26	6		

Volume of Greywater Available for Re-use

Source	Daily Volume (Litres)	Weekly Volume (Litres)	Yearly Volume (Litres)
Shower	43	300	15,600
Washing Machine	48	340	17,680
Total	91	640	33,280

Volume of Rainwater Available for Harvest

Annual Rainfall (from Bureau of Meteorology)	712
Roof Catchments in m ²	
House roof catchment in m ²	104
Garage/carport etc. Catchment in m ²	25.8
Sheds catchment in m ²	24.6
Total catchment	154.4
Total potential rainwater catchment per year (annual rainfall x total catchment)	109,933 litres
less 15% contingency for runoff or other loss (Potential rainwater catchment x	93,443 litres
0.85) Total water use per day (from water consumption spreadsheet)	272
Total water use per day (from water consumption spreadsheet)	98,852
Longest number of rainless days (from Bureau of Meteorology)	31
Water needed to cover longest number of rainless days (no of days x daily	8,432
consumption) Water storage required for water security + 20% contingency	10,540

Volume of Rainwater Currently Harvestable

Total capacity of current tankage	11,000
Area of catchment currently available	97.1
Rainfall currently available per year (annual rainfall x current catchment area)	69,135
Ranial Currently available per year (annual ranial x out of	

Compost/Worms/Chooks	Recycle	Landfill
Fish and chip wrapper C/W	2 plastic milk cartons	1 plastic muesli bag
chips		
Steak sandwich wrappers	2 local papers	15 cat food (meat) wrappers
Potato peelings	Letterbox brochures (junk mail)	1 frozen pea bag
Jerusalem artichoke peelings	Whiskas (cat food) box	1 piece cling wrap
Sweet potato peelings	1 "light and creamy" tin	Chock chip plastic bags
Carrot peelings	1 fish tin	3 plastic bread bags
Carrot tops	2 tetra cartons (Real Stock)	Broken pergola metal
Onion peelings	2 soft drink bottles (PET)	
Tissues	5 take away Coffee cups and lids	
Egg shells	1 tooth brush box	
Apple core	1 piece alfoil	Control of the contro
Slice leftover bread	4 aluminium pie trays	
Small amount flour & crumbs	Small no plastic shopping bags	
left over from veggie patties		
Celery tops/leaves		1
Sticks and twigs from mulberry		
tree		
Veg oil soaked paper towel		
Pork bones		
		The state of the s

Fruit Harvest Calender

					Miscellaneous		Berry			Vine		Stone						Citrus									Pome	Туре
Existing	Fig	Lilly pilly	Feijoa	Olive	Mulberry	Red Gauntlet	Strawberry -	Passionfruit	Grapes	Kiwi	Peach Fragar	Peach Anzac	(Valencia)	Orange	Lemonade	Lime	Mandarin	Eureka Lemon	Nellis	Pear Winter	triumph	Pear Packhams	Apple Gala	Apple Pink Lady	delicious	Apple Golden	Apple Akane	Cultivar
					×		×	×				×						×										Jan
	×			×			×	×	×		×							×					×			×	×	Feb
	×	×	×	×				×	×		×							×				×				×		Mar
	×	×	×	×				×									×	×		×				×		×		Apr
		×	×							×							×							×		×		May
New															×	×	×											Jun
															×	×	×											Jul
														×	×	×												Aug
														×	×	×												Sep
					×									×	×	×												Oct
					×		×		and the second					×		×												Nov
					×		×	×				×		×		×												Dec

Plant list for 9 Phar Lap Pl

Area	Purpose/Use	What to grow
Front Yard – Tree circle area	Fruit	Apple trees
	Fruit	Lime trees
	Fruit	Lemon tree
	Fruit	Macadamia tree
	Herb/Spice	Curry leaf tree
	Fruit/oil	Olive
	Edible flowers	Carnations
 Wicking beds 	Perennial Vegetable	Asparagus
	Annual Vegetable	Capsicum
	Herb/spice	Chilli
	Fibre	Cotton
	"Fruit"	rhubarb
- Herb spiral	Herb/spice	Borage
· · · · · · · · · · · · · · · · · · ·	Herb/spice	Tarragon
	Herb/spice	Lavender
	Herb/spice/beverage	Lemongrass
	Fruit	Strawberries
,	Herb/spice	Marjoram
	Herb/spice	Oregano
	Herb/spice	Lemon Verbena
	Herb/spice	Rosemary
	Herb/spice	Basil
	Herb/spice	Coriander
	Herb/spice	Cumin
- Hedgerow	Essential oil	Melaleuca Alternifolia
	Herb/spice	Bay Tree
	Fruit/bush tucker	Lillipilli
	Fruit	Feijoa
	Fruit	Blackberry
	Edible Flowers / rosehips	Rose
©+7	Beverage	Tea Bush
	Beverage	Coffee bush
	Herb/spice/beverage	Mint
- Banana Circle	Fruit	Bananas
Barraria Circic	Vegetable	Sweet potato
- other	Fruit	Mulberry
Other	Edible flowers	Hibiscus
	Amenity	Ferns
	Medicinal plant	Aloe Vera
		Nasturtiums
	Herb/spice	ivasturtiums
Back Yard – Vegetable beds	Annual Vagatables	Beans
back raid – vegetable beds	Annual Vegetables	Beetroot
	Annual Vegetables	Bok Choi
	Annual Vegetables	Broccoli
	Annual Vegetables	Broad beans
	Annual Vegetables	
	Annual Vegetables	Cabbage

	Annual Vegetables	Capsicum
	Annual Vegetables	Chilli
	Annual Vegetables	Carrots
	Annual Vegetables	Cauliflower
	Annual Vegetables	Celery
	Annual Vegetables	Cucumber
	Annual Vegetables	Kale
	Annual Vegetables	Leek
	Annual Vegetables	Lettuce
	Annual Vegetables	Mizuna
, and the second	Annual Vegetables	Onions
	Annual Vegetables	Onions - Spring
TIME THE TAXABLE PROPERTY OF THE PARTY OF TH	Annual Vegetables	Peas - Snow
	Annual Vegetables	Pumpkin
	Annual Vegetables	Silver beet
THE RESIDENCE OF THE PERSON OF	Annual Vegetables	Spinach
	Annual Vegetables	Squash (button)
	Annual Vegetables	Sweet corn
TOTAL	Annual Vegetables	Tatsoi
	Annual Vegetables	Tomato
	Annual Vegetables	Turnips
THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	Annual Vegetables	Zucchini
- Potato Cage Area	Annual Vegetables	Potatoes
1 04040 0080 74100	Perennial Vegetable	Choko
	Herb/spice	Turmeric
	Herb/spice	Ginger
	Annual Vegetables	Shallots
WANTE THE PARTY OF	Fruit	Orange Tree
- Citrus area	Fruit	Lemon
Old do di Cu	Fruit	Lemonade
	Fruit	Mandarin
	Perennial Vegetable	Water chestnuts
	Perennial Vegetable	Arrow
	Perennial Vegetable	Jerusalem artichoke
TOTAL TOTAL CONTROL CO	Teresimar vegetable	3erusaiem articiloke
		NAVA N
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Employment/Moneymaking Opportunities

- Wooden toys from recycled timber
- Turned pot makers from recycled/local timbers
- Heirloom/open pollinated seedlings or larger plants for sale
- Permaculture consultant (after some experience)
- Teaching (workshops)
- Make and sell solar ovens, rocket stoves etc.
- Make potholders etc and other sewn home wares
- Knitting and sewing accessories
- Knitted/sewn items to sell

Permaculture Design

Area 1 Shed Roof – Set up a duckboard made from recycled timbers and set up a no-dig garden planted with vegetables, possibly perennials

Area 2- Northern Front Fence – complete the wicker fence with mulberry canes and plant passionfruit along as a cover

Area 3 - Hedgerow

- 1. Ground cover a mix of chamomile, creeping mint, strawberry and sweet potato
- 2. Shrubs tea, clumping bamboo; almond (dwarf); coffee, blueberry; Feijoa
- 3. Climbers hops, grapes, kiwifruit
- 4. Large trees (in place) Melaleuca alternifolia; bay; native plum

Area 4 – Southern Front Fence – espaliered fruit and nut trees – almond; 2 apples 2 pears; 2 grapes