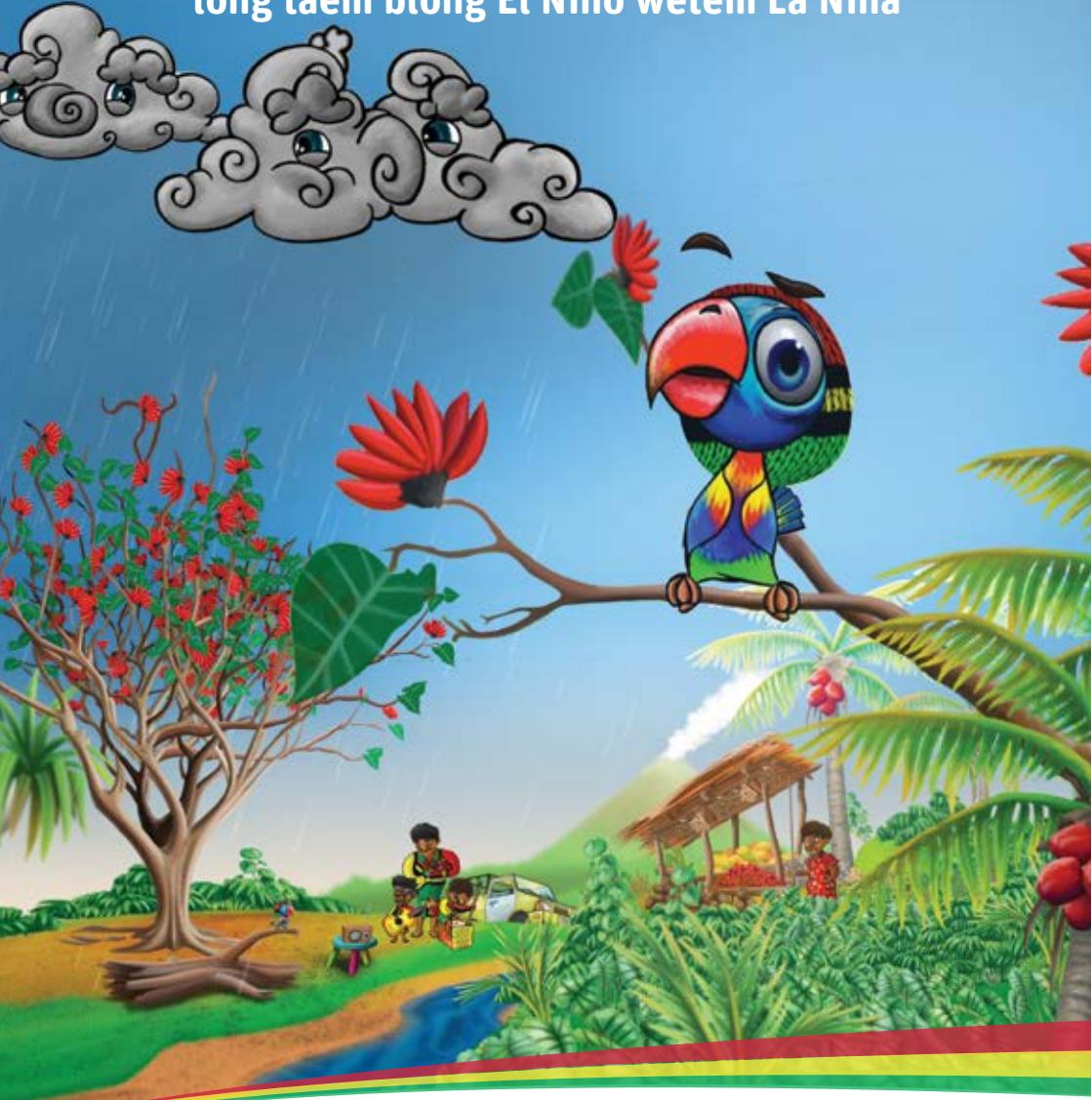


El Niño/La Niña Southem Oscillation (ENSO)

Buk blong sekta impak mo wanem blong mekem
long taem blong El Niño wetem La Niña



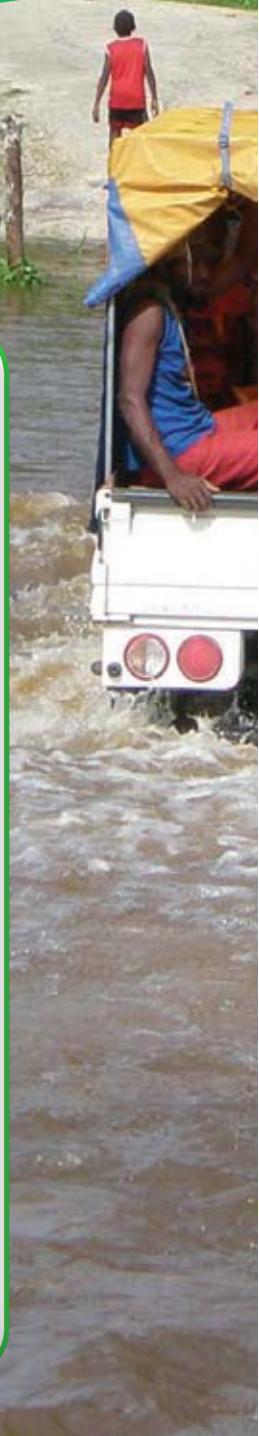
Introduction



Ol aelan blong Vanuatu oli save experienzem ol drae taem o oltaem we i ren tumas olsem risal blong ol event blong El Niño mo La Niña.

Ol kondisen ia oli gat ol bigafala impak long akrikalja, livestock mo forestry sekta, we oli depend tumas long wota we ikam long ren. Be ol fama wetem ol man we oli planem ol wud raon long Vanuatu oli save tekem early aksen blong prepea from ol nogud event olsem ia. Dipatmen blong Meteo wetem Geohazard (VMGD) istap providem ol useful woning, ol fokast wetem ol nara seves we oli fri mo avelebol long eni man. Ol fama wetem olgeta we oli planem ol wud oli save redi from taem blong tumas ren mo san taem oli tekem ol early woning mo mekem ol gudfala disisen mo aksen.

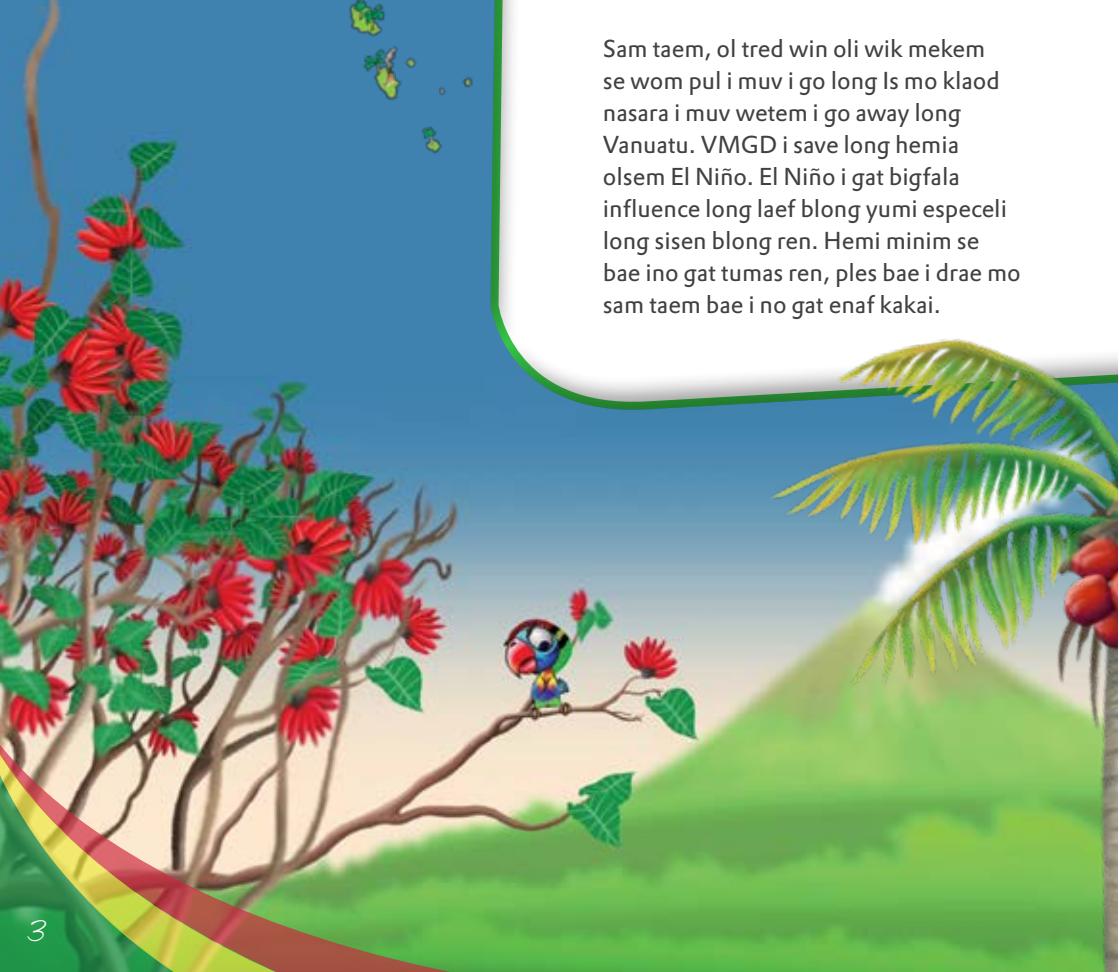
Hanbuk ia hemi gat ol basic infomesen blong El Niño mo La Niña mo ol impak blong tufala long akrikalja, livestock mo forestry sekta raon long Vanuatu. Hanbuk ia tu hemi explenem wanem fokast wetem ol woning we istap long VMGD, hao yumi save karem, mo wanem praktikol early aksen ol diffren sekta oli save mekem blong prepea from taem we i drae mo taem we i ren tumas.







Vanuatu i gat wan wet sisen (long Novemba kasem Epral) mo wan drae sisen (long Mei kasem Oktoba). Ol praktis blong mekem karen long Vanuatu hemi stap long tu sisen ia from difren level blong wota we istap long taem ia. Long sisen blong ren, hemi olsem wan bigfala nasara o ples we ol klaod oli mit long hem long skae. Ol wota long klaod i kam long wom pul mo tred win i pusum ol klaod i kam tugeta. Ofis blong Meteo i singaotem klaod nasara ia 'South Pacific Convergence Zone (SPCZ)'. Klaod nasara ia i muv tru aot long wan yia we i mekem nomol ren wetem drae sisen blong yumi.



Sam taem, ol tred win oli wik mekem se wom pul i muv i go long ls mo klaod nasara i muv wetem i go away long Vanuatu. VMGD i save long hemia olsem El Niño. El Niño i gat bigfala influence long laef blong yumi especeli long sisen blong ren. Hemi minim se bae ino gat tumas ren, ples bae i drae mo sam taem bae i no gat enaf kakai.

Olsem, long 1982/83 mo 1997/98 Vanuatu hemi experencem wan taem we i drae tumas we hemi risal long no gat wota mo ol nara nogud samting we i hapen long akrikalja mo ol nara sekta we oli dipen long ren. El Niño wetem ol impak blong hem i save stap long wan yia o mo afta bae ol samting i kam bak long nomol. Be samtaem El Niño i save stap long taem moa.

Long samfala yia, oposit blong El Niño i hapen we Meteo ofis i calleem La Niña. Long wan La Niña event, ol tred win oli kam moa strong mo klaod nasara hemi normally muv saotwes, sam taem i karem fulap ren we i bitim nomol i kam long Vanuatu. Long wan La Niña tu, hevi ren, graon i foldaon mo flading oli save hapen. Olsem long 1999/2000 La Niña, Vanuatu i facem tumas ren mekem se i gat flading mo i damejem ol kakai long karen, ol infrastrakja (olsem rod, haos mo ol bridge).

El Niño mo La Niña, tufala i no klaemet jens. Tufala i pat blong nomol klaemet blong Vanuatu. Ol sientis long VMGD oli stap watjem blong mekem fokast long hamas ren mo drae taem yumi save gat long ol taem we i stap kam mo bae oli save givim aot woning spos oli luk se Vanuatu bae i save go tru long wan El Niño o La Niña event. VMGD i stap putumaot evri manis sisonal fokast – includum Vanuatu Klaemet Update, Vanuatu Renfol Aotluk, mo wan Tropikal Saeklon Sisonal Aotluk – mo ol niufala weta infomesen – includum ol saeklon woning, rabis weta woning mo marine woning.

Ol fokast mo woning ia oli save kam olsem ol impoten tul blong ol fama blong oli save mekem ol gudfala disisen mo tekem ol stret aksen blong prepea long sisen we i stap kam.



El Niño mo ol impak long ol sekta - wanem blong mekem

Impak long wanwan sekta



Akrikalja Sekta

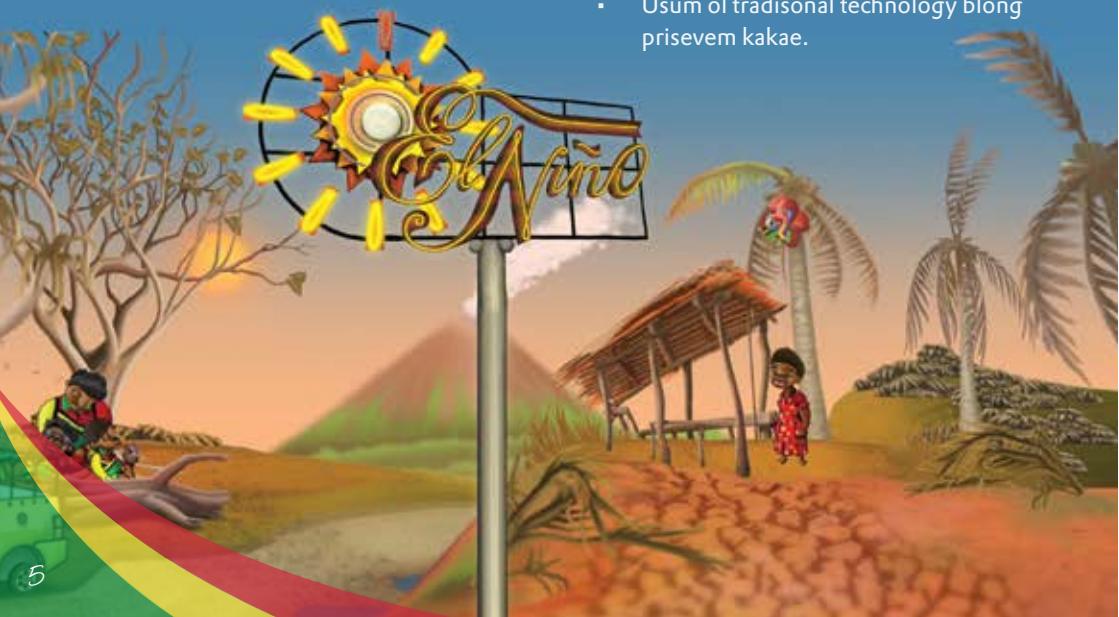
Wanem nao ol efek blong El Niño?

Long fiel blong Akrikalja, wota hemi impoten long ol plant. So long taem blong drae sisem mo hevi san, graon hemi lusum plante wota mo hemi kam drae. Situesen ia i save kosem problem long ol karen blong yu.

Wanem blong mekem long taem blong El Niño:

- VMGD i stap kivim aot sam advaes abaot El Niño mo La Niña

- No clearem karen blong yu mo mentenem ol bush blong kipim wota long graon
- Ademap ol toti lif o ol rabis krass (mulching teknik) raon long stampa blong ol krop mo tri blong yu
- Aplaem okanic kompost blong helpem ol krop blong yu
- Provaedem wota long ol krop blong yu
- No prunem ol tri mo wood insaed long karen blong yu
- Combaenem difren faming system teknik blong protektem karen blong yu (mulching, alley cropping, mix planting cover krops)
- Prisevem ol krop blong yu blong oli no lus (setem up neseri)
- Usum ol tradisional technology blong prisevem kakae.





'Wanem blong mekem bifo mo afta long taem blong El Niño:

- Aplaem intacropping technologi wetem use blong hae value krop olsem coffee mo cocoa blong provaedem shed long drae sisen
- Shiftem sisen blong mekem karen i go wetem sisen blong ren
- Aplaem alley cropping wetem use blong ol leguminous krop blong helpem graon blong yu
- Setem up ol krop we oli wikk long neseri
- Mekem karen insaed ol olfala padok blong buluk mo usum krop rotesen blong no spoelem graon blong yu
- Planem ol kaen varaeti blong krop we oli save fesem strong san mo drae sisen
- Muvum karen blong yu i go long ples we i no drae tumas
- No letem graon i stap nating mo aplaem ol impruv falow teknik (3 yia minimum) wetem use blong ol rikomandet cover krop olsem cyratro, mucuna
- Aplaem okanic kompost blong helpem ol krop blong yu
- Rivaevem back ol kakae we ol bubu i stap usum long taem blong ankre
- Oltaem planem 3 karen blong mekem sua se yu no ran sot long kakae.

Wanwan Akrikaljral Kakai

Vegetebol

Wanem blong mekem long taem blong El Niño:

- Konsevem wota long graon wetem 'mulching teknik'
- Ademap wota long graon wetem irrigation teknik.



Wanem blong mekem bifo mo afta long taem blong El Niño:

- Planem ol lokol vegetebol (lokol kabis, aelan kabis, susut)
- Planem ol varaeti blong vegetebol we i save kro long drae taem

- Replanem bak ol aelan kabis evri 2 manis blong kipim stok blong yu mo usum espeseli ol red mo grin hand kabis from oli strong.

Banana

Wanem blong mekem long taem blong El Niño:

- Muvum aot ol young shoot blong banana blong helpem mama plant blong kat inaf wota
- Aplaem intercropping teknik mo usum tree blong provaedem Shed long ol krop blong yu
- Aplaem composting mo mulching tekniks.



Wanem blong mekem bifo mo afta long taem blong El Niño:

- Intacropem kumala olsem cover crop wetem banana
- Planem ol banana we i save krow long taem blong strong san olsem Vietnam, malele mo chinees banana
- Intacropem ol plant we i kipim wota (nangalat, natangura, banana) wetem ol plant we i nidim wota.

Manioc



Wanem blong mekem long wan period blong El Niño:

- Widim karen mo applaem mulch
- No katem ol han blong manioc long drae taem.

Wanem blong mekem bifo o afta long wan period blong El Niño:

- Planem ol varaeti blong manioc we isave gro gud long drae taem, e.g. ol varaeti we oli gro sotsotfala nomo mo tu varaeti we oli gat smolsmol lif
- Planem fulap ol difren kaen rut krop wetem manioc olsem taro, kumala mo yam.

Taro

Wanem blong mekem long wan period blong El Niño:

- Kipim gud ol sut blong taro insaed long neseri mo ol ples we i kolkol. Eksambol: insaed long haus, long ples we i kolkol, mo ples we igat wota long graon
- Wotarem gud ol taro blong yu taem oli stap gro.



Taro



Wanem blong mekem bifo mo afta long wan period blong El Niño:

- Kolektem ol sid blong taro mo yu planem blong yu save kasem ol niu varaeti, semtaem yu mentenem ol varaeti ia mo developem ol varaeti we oli save gro gud long ol difren weta
- Yu mas save gud taem blong planem taro bifo long wan drae taem. Planem taro we i tekem 5-6 manis bifo yu kakae from bae drae taem ino save spolem
- Digim wan hol we i dip (20-30 cm) blong planem taro. Afta we yu planem taro yu no berem hol ia from bae emi save holem smol wota blong fidim taro ia
- Planem ol kaen varaeti blong taro olsem Navia mo Taro Fiji we oli save gro gud long drae taem. Ol kaen taro ia oli gat lif we i smolsmol, ol lif oli poen i go daon long graon mo oli no fesen strong san

- Practisim system blong Agroforestri. Planem taro tugeta wetem some hae value krops olsem kokonas mo sandalwood from oli save provaedem shed
- Planem fulap ol difren rut krop wetem taro, olsem manioc mo kumala

Yam



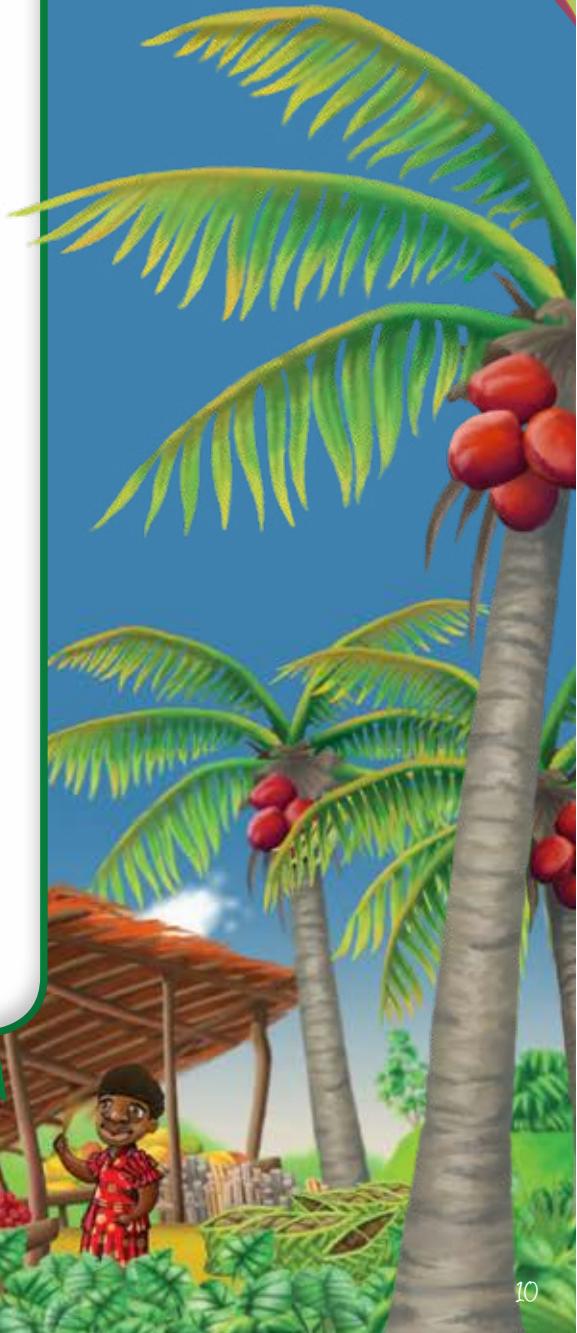
Wanem blong mekem long wan period blong El Niño:

- No widim o klinim garen blong yu tumas from inid blong holem samwota mo moisture long graon
- Provaedem sam wud we rop blong yam i save gro long hem mo provaedem mulch olsem lif kokonas blong protektem rop blong yam blong ino bon taem graon i hot.



Wanem blong mekem bifo mo afta long wan period blong El Niño:

- Muvum taem blong planem yam i go long end blong manis Jun kasem Okis. Yusum ol nomol saes tuber o pis yam (500 grams) blong planem
- Planem ol yam bifo long start blong wan bigfala drae taem
- Selektем ol varaeti blong yam we yu save producem long teknik blong minisett, espeseli ol tuber we oli no save roten kwik taem
- Yusum wan wud we i laef olsem 'stake' blong rop blong yam i gro long hem. Ol wud ia oli save provaedem shed long ol yam (applae system blong agroforestri).





Wanem nao ol effect blong El Niño long forestry sekta?

- Jenis long taem blong ol tri oli karem kakae
- Drae taem i save afektem relesensip bitwin ol plant mo animol, mo i save distebem envaeromen
- Ol sid i slo blong gro (germinate)
- Tri i save ded
- Wota long well, drum mo spring i save drae
- Tri i save drae mo no save kivem gudfala kakae.

Wanem yu save mekem long taem blong El Niño:

- Planem fulap tri blong helpem ecosystem
- Identifaem mo practisem gudfala managemen practis long ecosystem we oli no strong
- Practicem artificial gemenasen long ol impotent kaen blong ol tri

- Identifiem mo planen ol vulnerable kaen tri long wetwet ples
- Wotarem ol tri we value blong olgeta i high usem baket
- Digem hole (20-30 cm) narasaed long plant blong i save holem gud wota.

Wanem yu save mekem bifo mo afta long El Niño:

- Settem ap mo protektem ol eria raon long ples blong wota
- Planem back bush kolosap long river blong holem taet wota
- Praktisem mo enfocem buffer zones raon long streams mo narafala wota source
- Praktisem irrigasen especeli long commercial plantesen
- Developem mo expandem wota storage faciliti/infrastrakja (wota tanks mo reservoirs)
- Practisem/planem ol differen kaen tri long ol ples we oli save gro gud long em
- Mekem awareness long importance blong wota long ol wota catchment eria blong security blong wota.



Wanem ol effect blong El Niño long livestock sekta?

Long sekta blong livestock sisenal jens long klaemet i save affectem production. Hae tempereja we ikam wetem draot o drae taem i save mekem se grass ino gro gud. Hae tempereja mo shotage long wota i save cosem stress long buluk mekem se ino grow gud, ino kakai gud mo ino gat tumas niu born calve oli laef.

Wanem yu save mekem long taem blong wan El Niño:

- Muvum ol animal igo kolosap long ol river mo ol ples we wota i fulap long hem long drae taem
- Usum bamboo o eni local material blong karem wota ikam daon long ol hil mo wotarem grass long fam
- Long taem we ples i drae tumas ol fama oli shud salem sam animol blong mekem sua se igat plante grass blong animal i kakai. Eksambol: salem ol olfala animal mo kipim ol animal blong breeding

- Ol fama oli shud usum fasin blong katem ol grass long narafala ples mo fidim ol animol wetem
- Letem buluk i kakai andanit long bush o ol tri.

Wanem yu save mekem bifo mo afta long El Niño:

- Lego sam tri o bush i gro insaet long fam blong ol animol oli save haet long hem
- Usum ol grass we oli tolerant long drae taem olsem signal grass
- Muvum ol animol raon long fam mo no lego long wan ples nomo
- Planem ol difren specis blong tri legume long taem blong ren long "stripe line" paten. Long taem blong El Niño ol buluk bai oli save mentenem producsen mo ol legume tri oli continue blong mekem graon i rich
- Usum ol livestock breed we oli save toleratem drae taem olsem ol tropical breed – Brahman mo Africanda
- Maretam ol livestock we oli toleratem drae taem
- Usum fud presevasen olsem kumala silage mo Copra meal



Buluk

Wanem yu save mekem long drae taem?

- Letem buluk i kakai long open ples mo rest long forests
- Providen ol supplementary kakai olsem silage mo curry grass
- Mekem sua se igat plante wota.

Wanem yu save mekem bifo mo afta long wan El Niño:

- Digim ol well mo trench we bai buluk i save dring long hem
- Long drae taem allowem ol animal blong oli reproduce mo long taem blong ren calvem ol animal
- Usum ol buluk we oli resilient long drae taem
- Bildim ol wota catchmen pool, drum mo tank insaet long ples blong buluk
- Putum ol buluk long ples we wota i save pas tru long hem o igat wota colosap long hem
- Mekem sua se pasture we buluk i kakai long hem igat 70% grass mo 30% legume

- Usum kakai blong buluk we i resisten long drae taem olsem ol plant, tri mo gras
- Usum laef fence olsem wan narafala kakai blong buluk long drae taem
- Mekem sua se ol buluk oli nogat ol sickness o pepet.



Pig

Wanem yu save mekem long taem blong wan El Niño:

- Fidim ol pig wetem ol kakai we igat wota long ol olsem stamba blong banana, taro, navara, pineapple, wota melon, ol rope blong bush, meremia bifala leaf
- Mekem sua se igat plante wota insaet long fens blong pig
- Lego ol pig oli ronron olbaot
- Bildim fens blong pig long ples we igat shed long hem
- Fidim pig wetem ol nara kaen kakai olsem silage, meat mo boon, toti blong beer mo tu fish mo makas blong copra.



Wanem yu save mekem bifo mo afta long wan El Niño:

- Usum ol pig we oli save tolerate drae taem olsem ol local pig
- Planem ol shed tri raon mo insaet long fence blong pig
- Putum pig long ples we igat shed long hem
- Bildim wan shelta blong pig i save hide long hem
- Mekem sua se igat ol ples blong softmat we ol pig oli save slip long hem
- Mekem sua se ol pig inogat sickness o pepet.



Wanem yu save mekem long taem blong wan El Niño:

- Mekem sua se igat shed olsem haos o tri long insaet long fens blong faol
- Usum ol faol we oli resilient long drae taem olsem Rasta, African mo ol Wild faol
- Usum ol African faol we oli grow quick taem. Encouregem African faol blong breed

- Mekem sua se igat wota oltaem insaet long fence blong faol
- Providem sam narafala kakai olsem makas blong copra mo low grade rice.

Wanem yu save mekem bifo mo afta long wan El Niño:

- Maretem ol local mo imported faol olsem Local mo African o Brown layer
- Providem shed olsem haos o tri insaet long fence blong faol
- Fidim ol faol wetem kakai we igat wota long hem olsem navarra mo ol narafala fres kakai mo frut (pawpaw, mango, nakavika)
- Lego ol faol oli ronron olbaot be mekem sua se oli kakai long stret taem
- Mekem sua se ol faol oli nogat any sickness o pepet.



Wanem nao ol effect blong El Niño long wota sekta?

Sotej long wota blong drin hemi main effect blong El Niño long wota sekta. Wota hemi impoten long body blong yumi. Wota i mekem 60 % long human body, 93% long blad, 75% long bone. Yumi usum wota blong digestem kakai, absorbem ol nutriens, karem aot ol toti long body mo blong gat wan helty temperature. From hemia wota hemi wan presious resos mo yumi save luk value blong hem long taem blong draot. Draot i save affectem quality mo quantity blong wota so hemia samfala wota conservation advaes.

- Developem ol standard tank designs blong ol difren part blong country (north / south etc)
- Monitarem mo cleanem ol wota source we i bin contaminated long taem blong draot bifo ol man i save usum.



Wanem yu save mekem long taem blong wan El Niño:

- Transportem wota igo long ol ples we wota hemi wan bigfala problem
- Relocatem ol man igo long ol ples, village o aelan we igat wota
- Inreasim size blong tank
- Inreasim roof catchment eria
- Impruvum design standard blong includum drae taem



Urban Eria

- Tekem ol shower we i mo short mo usum wan low flow showerhead
- Tanem off tap taem yu stap brasem tut o shave
- No westem tumas wota taem yu usum toilet
- Karem aot ol olfala toilet mo putum niufala wan
- Jekem mo fixim ol tap mo pipe we oli stap leak
- Usum wan bucket wota blong washem truk be no usum hose. Usum waste wota blong irrigetem ol plant.
- Usum mulch long ol karen
- Lukaotem infomesen blong ol plant we oli likem wota. Mekem list blong plant we oli gat difren requirement blong wota
- Leftemap blade blong lawn mower kasem 3 inch
- Traem blong wotarem karen early long morning o late long aftanun blong redusum evaporation long karen mo usum wan trigger nozzle long hose blong savem wota.

Rural Eria

- Encouragem people blong usum sam narafala source blong wota olsem solwota, river o lakes blong swim, washem ol samting long kitchen o haos
- Educatem ol pikinini long wota conservation blong oli no pleple wetem wota
- Encouragem Traditional Knowledge blong Wota Conservation olsem fasin blong usum young bamboo mo ol rope blong bush

Wanem yu save mekem bifo mo afta long wan El Niño:

- Tru awareness mekem ol jenis long wota storage mo fasin blong usum wota
- Identify mo prioritizem ol eria we oli gat wota problem mo implementem ol wota conservation strategies
- Developem wan national database blong wota system mo supplies olsem wan tul blong mekem disisen
- Mekem survey blong finem sam narafala source blong wota
- Mekem wota shed mapping blong land use management mo forest maintenance
- No depen nomo long wan wota source. Usum mo developem plante system
- Fulumap ol standby/reservoir tank long taem blong ren blong usum long drae taem
- Usum ol difren wota source system long ol difren taem blong yia
- Mekem sua se inogat direct san long wota blong preventem algae development



La Niña mo ol impak long ol sekta - wanem blong mekem

Ol general impak blong La Niña long ol past yia:

- Bigfala flading – e.g. Lake Siwi long 2000
- Long Middle bush eria Tanna long 2000-2008
- Damej long ol rod mo bridge
- Damej long ol root krop from tumas wota. Eksambol, Malekula mo Tanna long 2000
- Increase long ol sik we mosquito istap pasem olsem malaria. Mo tu mosquito i spred mo igat sam niufala sickness
- Plante landslides.

Ol impak blong ol sekta

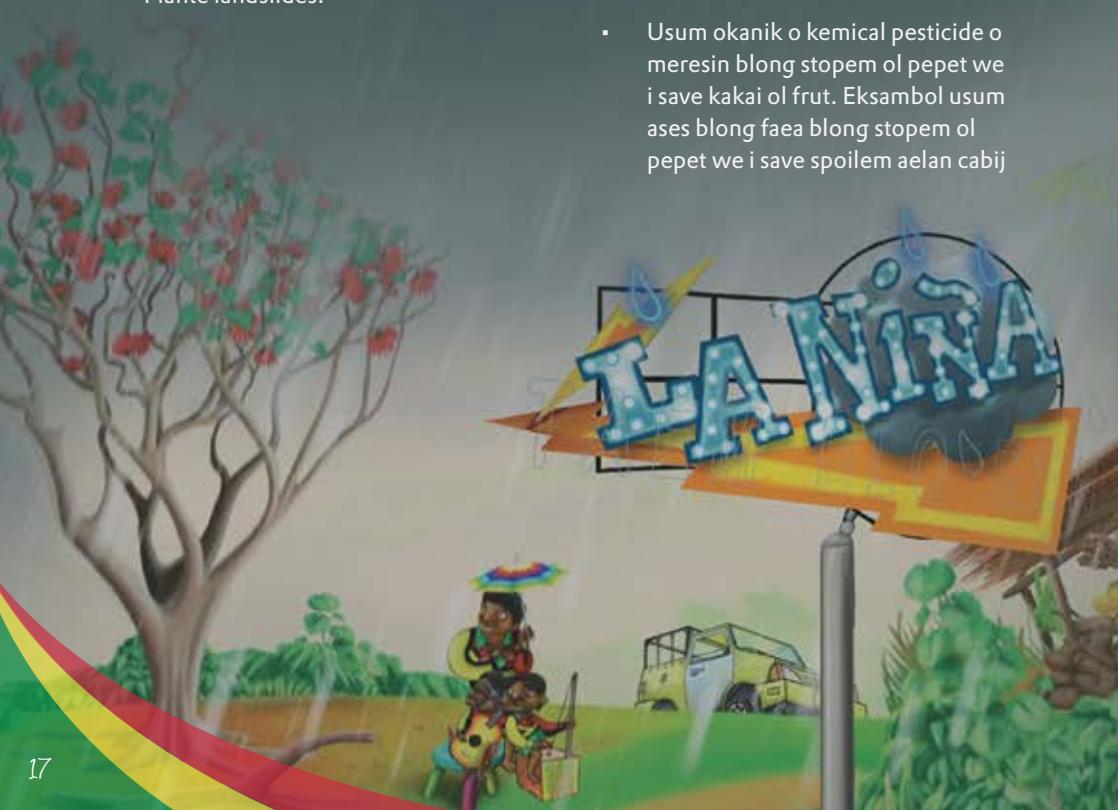


Akrikalja Sekta

Long taem blong La Niña (longfala taem blong ren) bai i save kat aotbrek blong ol pepet mo difren kain sik we i save spoilem kakai.

Wanem blong mekem long taem blong La Niña:

- Usum okanik o kemical pesticide o meresin blong stopem ol pepet we i save kakai ol frut. Eksambol usum ases blong faea blong stopem ol pepet we i save spoilem aelan cabij





- Sakem ases blong faea long ol lif we pepet i afektem bai oli ded mo niu wan i kro bakaken we i nogat pepet long hem
- Mixim ases wetem graon bifo yu planem ol aelan kabij
- Sakem ol ases blong faea raon long stampa blong kabij
- Dikim mo mekem rod blong wota blong stopem ples we wota istap fulap oltuem long hem
- Riloketem o muvum ol karen i go long ples we i sef long flading. Eksambol, ples we i slope mo drae
- Rimuvum ol pepet mo sik we i save afektem ol plant
- Kaveremap ol frut (olsem banana mo kuava) wetem plastik bag blong stopem ol pepet. Eksambol, ol pepet oli save spoilem ol frut bifo oli redi
- Karemota ol catabila mo ol bebet we oli stap raon long karen
- Karemota ol rabis krass long karen mo mentenem karen blong mekem sua se i nogat ol plant we oli save holem ol bebet mo sik.

Wanem blong mekem bifo mo afta long wan La Niña:

- Enkarejem ol eksisting okanik praktisis blong protektem ol plant long ol pest mo disis

Eksambol, miksim tamanu oil wetem wota, miksim jili mo wota, rut blong deris plan mo wota, miksim lif blong klaerisidia mo wota blong sop

- Miksim o intakropem ol plants blong kontrolem ol spesifik spesis we oli save spread olbaot
- Mekem sua se ol impoted planting material (long ol nara ples) oli fri long ol pepet mo sik
- Enkarajem ol praktis blong rotesen blong kontrolem pepet mo ol sik o disis
- Enkarejem ol difren kaen krop we i gud blong planem.



Wanwan Akrikaljral Kakai

Taro

Tumas wota mo moisja long graon bai i save spoilem taro.

Wanem blong mekem long taem blong La Niña:

- Digim drenej blong daevetem mo stopem flading
- Applyim fungisaed tritmen
- Rimuvum roten sackers blong stopem sikness we i save spred olbaot
- Riloketem ol plants (Sakas) long ples we ino kat flat.



Wanem blong mekem bifo mo afta La Niña:

- Planem ol varaeti blong crop we i save kro long taem blong ren
- Dikim mo mekem rod blong wota blong stopem wota ino fulap long karen
- Reloketem taro karen i go long ples we i drae mo istap long wei long flading. Eksambol ples we i slope mo i drae.

Banana

Tumas wota long graon bai i save inkrisim sik blong banana nematode.



Wanem blong mekem long taem blong La Niña:

- Dikim drenej blong stopem wota we i save go insaed mo fulap long karem mo afektem banana
- Tritim banana nematode we i save affektem roots mo lego i drae before replantem.

Wanem blong mekem bifo mo afta

La Niña:

- Planem ol difren kaen banana we i save gro long taem blong hevi ren. Eksambol Vietnam banana
- Intakropem mo miksim banana wetem ol difren kaen kakai we i save karem fulap wota. Eksambol taro (kolokasia mo xanthosoma)
- Usum kontua faming metod mo plantem Vetiva grass mo ol tri blong stopem soil erosen
- Riloketem banana, karem i go long ples we ino kat flading. Eksambol long ol slope mo drae plese
- Klinim sakas blong banana blong stopem ol pepet mo sik we i save spred olbaot mo afektem banana
- Mekem sua se igat gud mentenens long banana blong stopem ol difren kaen pepet mo sik we i save afektem banana.

Yam

Hevi ren wetem fulap wota i save mekem sik ia anthracnose i kamaot long ol kakai blong yam.

Wanem blong mekem long wan La Niña:

- Usum rop blong yam blong plantem blong holem tight kaen yam ia
- Karemaot yam long taem we yam i no redi yet spos yu luk leaf blong hem i yellow

- Washem gud kakai blong yam wetem clean wota blong karemaot sik wetem pepet blong sik
- Mekem rod blong wota blong mekem se wota i no stap long karem blong yu
- Treitim yam blong yu wetem stret meresiin. Eksambol, mangozebe.



Wanem blong mekem bifo mo afta long wan La Niña:

- Encouragem blong mekem yam blong yu i climb antap
- Usum smol yam (we i save gro long taem blong ren) blong planem
- Planem ol yam wetem ol nara kakai we oli save holem wota. Eksambol, Wota Taro
- Treitim karen blong yam wetem stret meresin. Eksambol, mangozebe blong stoppem sik blong anthracnose i spret
- Muvum karen blong yam: go long wan place we hemi no save fulap long wota olsem long hill o long drae place
- Karemaot ol toti grass long karen blong yam blong stoppem place we sik i save haet long hem.



Tumas ren i save affectem growth blong ol young plant.

Wanem blong mekem long taem blong La Niña:

- Encouragem polenesen long hand blong go wetem natural polenesen
- No encouragem blong clearem bush long side blong hil
- Planem back bush long slopes wetem tri mo kaen blong ol krass we oli gat gudfala root system blong controlem soil erosen
- Providem drainage long nesari blong preventem tumas wota (wota logging)
- Applaem kemikal blong protektem ol tri we oli kasem sik
- Removem ol tri we oli sik mo olgeta we oli ded.

Wanem blong mekem long taem blong La Niña:

- Planem back bush wetem tri mo krass long ol slope long row mo pattern blong graon ino save kamaot
- Planem ol kaen tri we i save gro gud long ples we wota i fulap long em olsem kokonas, bamboo mo burao
- Usem ol kaen plant we oli save gro quick long ples we ino kat samting i gro long em
- Usem ol branj blong wud we i foldaon blong controlem soil erosen
- Putum ol log tugeta blong holem taet graon
- Buildim propa mo gudfala haos blong save draem timba long taem blong rain
- Salem logs mo timba sipos ino kat propa storage facility.



Taem blong ren i save mekem sik wetem
pepet mo affectem ol laefstok.

Wanem blong mekem long wan La Niña:

- Muvum ol buluk i go long ples we i no save holem wota olsem long hill mo long ol flat place antap long hill
- Karemota ol buluk kwik taem long ples we graon i kamaot long hem mo i wetwet
- Long taem blong ren, wetem wokabaot blong ol buluk i save spolem graon
- No mekem buluk i kakai tumas long taem blong ren blong stoppem graon ino kamaot mo tub long stoppem buluk ino karem ol wom i go long bodi blong hem. Semtaem ol rabis grass i save kamap
- Encouragem treatment blong ol buluk wetem meresin blong controlem ol wom long bel.

Wanem blong mekem bifo mo afta long wan La Niña:

- Mekem plan blong wea ples nao yu save muvum buluk i go long hem spos i ren tumas mo wota i kamap long ples we oli stap stanap long hem
- Yu no holem Brahman buluk long ples we wota i save kamap long hem from se oli save damejem graon
- Blong mekem se leg blong buluk i no rotten, putum ol stone long ples we buluk i stap wokabaot long hem
- Planem ol grass we oli save laef long taem long taem blong tumas ren. Eksambol, Para mo Elephant
- Planem ol kaen grass we oli save letem wota i go insaed olsem Buffalo mo beans (Ciratro)
- Keepem ol buluk blong yu i helti oltaem, free long ol sik wetem pepet
- Mekem sua se ino gat fly blong horse raon long ol buluk. No putum buluk mo horse long sem ples.



Faol

Wanem blong mekem long wan La Niña:

- Mekem sua se ol faol blong yu oli save muv i go long wan drael ples blong oli save kakai mo putum egg
- Mekem rod blong wota i save ron aot long fenis blong faol
- Karem aot o keepim ol sik faol (long wan ples) blong controlem spread blong sik
- Mekem sua se ol faol blong yu oli healthy, oli no kasem ol sik wetem ol wom
- Kivim sam nara kakai olsem copra meal mo toti rice
- Kivim clean wota evridei.

Wanem blong mekem bifo mo afta long wan La Niña:

- Planem ol tri we oli laekem wota olsem pawpaw mo bamboo long fenis blong faol
- Mekem rod blong wota i save ron aot long hem round long fenis blong faol
- Mekem floor blong haos blong faol i go antap lelebet blong mekem se wota i no save kasem olgeta mo semtaem ol animol oli no save kakai olgeta
- Enkarejem ol kind faol we oli strong olsem faol blong yumi wetem olgeta we oli kam long Africa
- Enkarejem blong maritem ol faol blong yumi wetem olgeta we i kam aotsaed long Vanuatu
- Providem ol narafala kakai olsem copra meal mo toti rice.



Pig

Wanem blong mekem long wan La Niña:

- Mekem rod blong wota i ron aot long fenis blong pig we i save fulap long wota
- Yu mas oltaem muvum fenis blong pig blong yu i go long nara ples blong mekem se i no gat sofmad long hem
- Kivim stick long ol pig blong stopem wom. Usum local treatment we ol fama oli usum long Tanna, Epi mo Malekula we department blong livestock i stap enkarejem
- Givim ol narafala kaen kakai olsem 'silage', meat mo bon, toti wheat blong beer mo fis wetem copra meal long pig.

Wanem blong mekem bifo mo afta long wan La Niña:

- Yu mas oltaem muvum fenis blong pig blong mekem se i no gat sofmad long hem
- Mekem ol strong fenis wetem smol haos blong mekem se ples i drae long taem blong ren
- Usum ol bush material olsem Natagura blong mekem haos long fenis blong pig blong mekem se ples i kolkol
- Jusum wan ples we wota i no save fulap long graon o i lettem wota i go aot long hem blong mekem se ol pig oli safe
- Yu no putum fenis blong pig long wan ples we wota i save ron tru long hem
- Givim ol narafala kaen kakai olsem 'silage', meat wetem bon, toti wheat blong beer mo fis wetem copra meal
- Enkarjem blong stickim ol pig
- Mekem sua se ol pig oli healthy mo no kasem eni sik.



Wota Sekta

Long taem blong wan La Niña, wota i save fulumap ples mo spoilem ol wota we yumi stap usum mo i save mekem se i gat ol sik oli kamaot olsem sitsit wota mo ol nara sik blong toti wota.

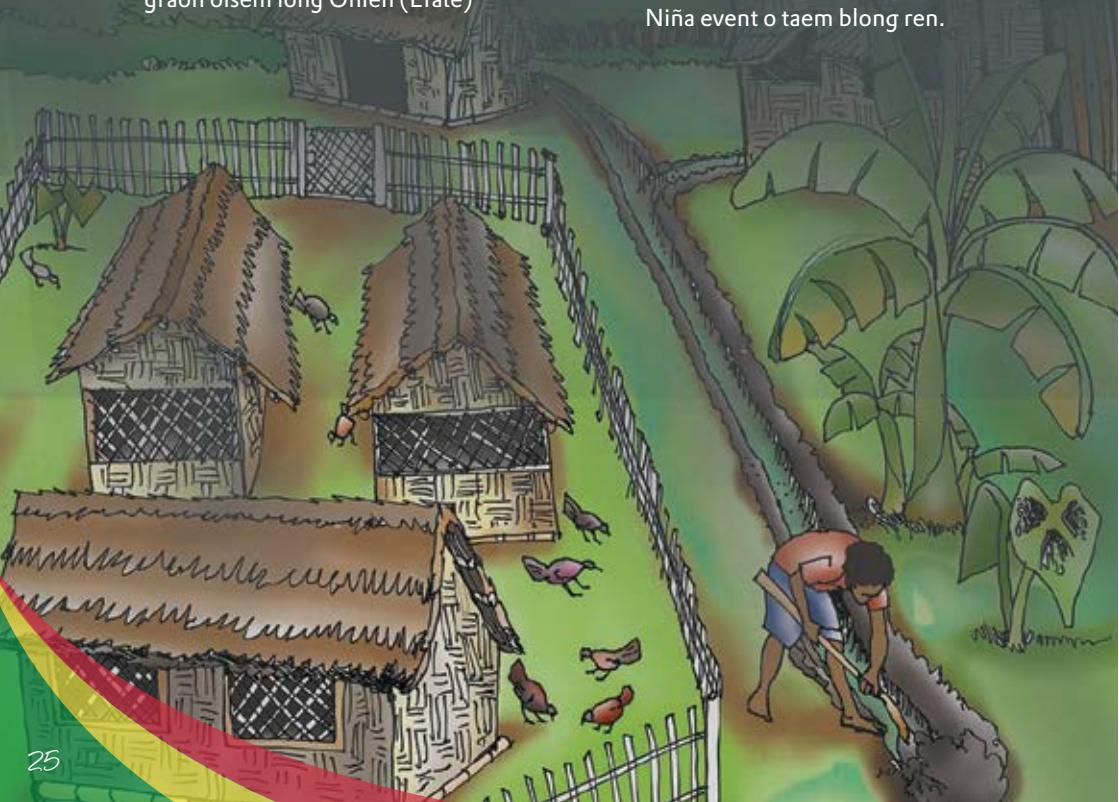
Wanem blong mekem long wan La Niña:

- Kaveremap gud ol wota tank wetem ol nara ples blong storem wota
- Mekem sua se i gat wol raon long ol well blong mekem se toti wota i no ron i go insaed
- Yu no drink ol wota long graon kolosap long ol bush mo ol VIP toilet afta long wan flood
- Yu no usum bush mo VIP toilet long ol eria we wota i no go gud long graon olsem long Ohlen (Efate)

- Yu no mas swim long ol ples we i fulap long wota blong ren
- Mekem sua se ol pump blong wota oli kaveremap gud (long top blong hem) blong mekem se source blong wota i no toti o wota i go bak insaed.

Wanem blong mekem bifo mo afta long wan La Niña:

- Kaveremap ol tank blong wota wetem ol narafala ples blong sevem wota
- Mekem ol wall long well blong protectem ol wota
- Yu no mekem ol VIP wetem bush toilet long ples we hemi stap fulap long wota
- Mekem sua se i gat ples we wota i ron long hem away long ol infrastructure
- Cleanim ol well afta long wan La Niña event o taem blong ren.



Wetem ol difren aksen blong mekem long wan taem blong El Niño / La Niña o bifo o afta, hemi save helpem yumi blong gat ol risos blong yumi especially kakai wetem wota blong drin. Spos yu folem ol fasin ia bae yu no save facem tumas problem long ol kaen klaemet olsem.

