# THE POLITICS OF SCARCE RESOURCES AMONG THE ATA AN EXPERIENCE DERIVED FROM THEIR FARMING SYSTEMS DEVELOPMENT PROJECT

## Rowe V. Cadeliña

#### Introduction

The problem of scarce resources is universal (Bernardo 197 Borgstrom 1967; 1971; Green 1973; Little 1973). Among couloma act tries, the problem differs only by degrees. The greatest burde the incr however, is felt by people from the Third World. This is aggregating fa vated by the synergestic effect of the absence of appropriate technical nology and the limited and rather sensitive resources to inte moniti sive human activities in this part of the world. Rapid population and a growth further complicates the problem.

In Third World countries, like the Philippines, the level resource scarcity is felt in different degrees by people who come from different regions, localities and social class Relatively speaking, those coming from the upper class who side in the economic and industrial centers of the country te to live in an artificial state of abundance in contrast to th who come from other sectors of the country.

In the Philippines, upland communities are largely four to be the most advantaged locality on the basis of accessibil to facilities and resources that are essential to the resider existence. Since most upland communities are government serves, the occupants in these areas do not have legal tenure the land. Hence, they are considered squatters.

Since land for private ownership is not available, comment of quently, the people in the uplands are technically landless. sidering the rugged terrain of the upland communities, lands these areas are extremely sensitive to human activities usus bringing a rapid deterioration of the ecological balance in area. As a result, agricultural production is below subsisted is la

wel, wh Its e tenefits d wland s

both p

The n the con essent

on inc efore in (1) Do

The sc m of the

explore '

Bocatio

(2) Ho in resol

(3) Ho

(4) Are

(5) Wh

which threatens the existence of local upland population is economic welfare declined coupled with already depressed derived from the facilities that are only available in the such as health, education and other services provided private and government sectors.

conditions in the upland communities. The resources that sential to their survival given their technological capabitive largely disappeared brought about by the increasing activity in their upland environment. This is the result increasing competition with the lowland migrants who are farms in the uplands. The absence of cash among the prevents them from utilizing the services and goods that mitized. Resource scarcity has therefore reached its absorbed among most tribal population in the uplands.

the Ata. In the light of this context, the paper attempts to a ways the Ata handle the problem of resource scarcity individual and social levels. The following questions are investigated:

- Do the Ata face problem of interpersonal conflicts in meation and distribution of scarce resources?
- How does the loose sociopolitical system of the Ata operresolving conflicts of this nature?
  - B) How is the problem of scarce resources met?
- Are there differences in conflict levels and in conflict resultion processes involving different consumable and capital
- What are the individual and societal resources to the of resource scarcity?
- problem of resource scarcity among the Ata is generally interrupted only by a very brief period of availability during harvest time. Hence, the Ata problem of resource is largely a constant issue.

# THEORETICAL FRAMEWORK

Goods or services that are either difficult or impossible afferent possess are considered as scarce resources. These resources considered the either be consumable or capital. Food is largely consumable whitevelop. land and tools are capital resources. The population may diff rore soc in how these resources are perceived. For instance, food me ore con be valued for its immediate use and satisfaction; while lar ties on the other hand, may be valued for its long term productivit Fence, t Such perception differential of these types of resources country of these types of resources country of the second country of the se affect the way goods are valued and the kinds of responses people as-sub generate when conflict of ownership, distribution or allocation conof a particular type of scarce resource would take place.

Such conflict may be resolved on different levels. It may settled on an individual basis. Conflicting individuals over t allocation of a particular resource may find compromises compares n take various forms depending on what has been agreed between First, two contracting parties. The essence behind this resolution green the willingness of either party to give in some of one's demandable fro in favor of one that is mutually acceptable. An element of sacre comin fice is involved to give priority to eroding conflict between personnel second sons and hence eventually re-established order.

However, when conflicting parties are not in a position find compromise, an intervention from a neutral party may required. Societal level of resolution will have to be establish The sociopolitical system will have to employ the processes conflict resolution established by tradition. Whether the soc political system is loosely or rigidly structured, the process quires the mobilization of personnel and the imposition of ru to adjudicate the conflict. Compromises may be arrived at these are normally established after imposing the strength the law either created by tradition or by constitutionally proved legislative procedure.

Competition over use of scarce resources increases w there is greater unpredictability in the societal environment chim 1981: 212; Weins 1977). This generally happens in a communication and munity consisting of multi-ethnic population or in a group to produ

is chara and pers

inter-sub within th

Hend name to b

evel will

Scarci ses fro er ind Theor

tified. red

Resour

persuasions. Individuals in a community who belong to two rent subgroupings tend to compete in the use of resources. Their societal loyalties are not parallel, conflict interests top. When confict of interest is brought to a societal level, social cleavages and alliances are formed. This will incubate competition within the community while it increases stronges and loyalties within one subgroup of the community. There is a strong positive relationship between intratoup "we-feeling" and inter-subgroup "they-feeling." As the subgroup "we-feeling" increases, inter-subgroup "they-feel-concommitantly increases. This serves as the basis for more subgroup conflict and competition over the use of resources the community.

Hence, conflict and competition over the use of scarce remains may happen on two kinds of individuals in the communities, it may happen between individuals who belong to the group. Second, it may happen between individuals who from two different subgroups. In the first, the potential ming up with inter-personal compromise is great while in second it is very slim or none at all. Therefore, resolution will be established on two levels. For the first, the individual will be sufficient; for the second, the societal level is neces-

from the population (Lee 1968). As a stimulus, behavioral to it are generated. Such responses may be carried on individual or group basis.

meoretically, eight possible behavioral resources may be med. These are the following—employment of compensatory res, exchange and trade, territorial invasion, population generalized sharing, technological shifts and develop-reduction of consumption behavior, and mortgage of re-

another form which can generate products similar to the produced by the resource being replaced, for instance, farm-

Acces

mon gro

ers who have insufficient lands may compensate for the lace be en of land by optimally tapping available household labor in the ertise productive activities. Extra household labor may be traded in the of the market for wages from which food resources are drawn. In the a may sence of staple crops, other goods which have similar value with the sticide former are consumed. For instance, root crops are generally tall en as major source of carbohydrates in the absence of stap food, like rice and corn. In the face of increasing cost of textered l tiles, the natives may go back to their tradition of using bases mean cloth if bark sources are still available. Man has been doing a let the eco of compensatory practices in the face of increasing resource. Hence scarcity.

Assuming that an individual still possesses some select There but limited resources, those he possessed but are not needed managin b be traded for goods he needs which he does not however, production. In This may involve individuals coming from different or similariation localities or groups. Individuals coming from two different ethness populations orientations may establish such kind of transaction. Goods was called assumed equivalent values may be exchanged or traded (Sahliman 1975 1965). Of course, this may involve cash as a counterpart for a college ther goods in-kind.

Both capital and consumable resources may be traded in the Popula manner. Land may be traded for cash or tools may be exchanged rewith food resources. Costing of resources are generally detected about mined by existing local practices. The process is generally lesser timized and cemented by accepted tradition of the population volved.

In places characterized by multi-ethnic groups and when the same of the characterized by multi-ethnic groups and when the characterized by the character locality is rigidly defined by territorial boundaries and content of the scarcity of resources in a particular territory usually lead an organized collective dispersal of military force to a territ perceived to have abundant supply of resources. Territorial vasion through warfare may be employed (Chagnon 1977; Change non and Hames 1979). Such practice, in fact, could be embed in the people's culture. Hence, religion and their world view support such practice. Expertise in combat and stealth at 198 to assure one's victory is a trait that may be highly valued. expressed in rituals and magic designed to develop those among the warriors. To keep the demographic structure of the population advantageous for warfare, the male child-way be preferred over those female ones. Hence, female in-may be practiced.

by overthrowing legitimate owners. The use of violence means of diminishing the negative effect of scarce resource economic system of the population is justified by tradimere, it may become one of the ways of living of a population.

between human population and the availability of relation is a factor that has been seriously reckoned by vapopulation groups even those among what has been genualled as "primitive" population. Literature suggests (Du1975) that population groups may employ either preventcollective measures to bring a balance between people and

recognize the impending imbalance resources and people. As such, the impending imbalance aborted by implementing what we might call as prevent-These are practices that try to deestablish a condithe population exceeds the supply of resources. This call as population control. Birth control, infanticide, and gerontocide may constitute as some of the forms and a state of the egg is by practices that are intentionally or unintentionally The use of contraceptives such as herbal medicines entional while postpartum sexual taboos are non-inten-The latter is generally defined by the moral tradition of control effect. The problem of be a mong the people is not intentional but it has a effect on procreation since it may suppress ovulation 1980). Prolonged lactation as a tradition, may also bring depression of fertility (Bomgaarts 1980).

Infanticide and gerontocide are considered crimes under our "have modern laws. But, according to the tradition of some people, immanguing fanticide and gerontocide have been practiced in the face coming the impending economic difficulty (Turnbull 1972). Since the state to li ciety has still low socioeconomic investment on the infants whereav relative are non-productive and the society can no longer draw economic strong a benefits from the old, both the infants and the old are considere socioeconomic liabilities. Hence, some primitive societies murd them in the face of impending scarcity of resources.

Abortion, through the use of massage and herbal plant has been also reported. This is done to prevent the fetus fro reaching its full term birth. Motivations of such practice ha been reported to be varied such as health of mothers or impening economic difficulties.

However, in conditions where scarcity of resources has ready taken place, corrective measures on population size m be implemented. This is generally done through the redistributi of people. By migration, people are redistributed. The migrati stream will usually start from places of high level of scarc to places of low scarcity. In this way, demographic pressure scarce resources can be relaxed, thus increasing its availability the local population.

Due to the seasonality of resources, seasonal migration means be implemented and in places where seasonal migration has be place. already patterned, cyclical migration may take place. In the later of case of migration, the population moves from one place to next until they have completed one annual cycle culminating Neg their return to their own place of origin (Prothero and Chaman 1984).

When the problem of scarcity of resources takes place in given community, its household population may experience va ing degrees of difficulties caused by the household's dome developmental cycle stage. Due to their varying demograp constraints and opportunities some households will be in a atively better economic condition-compared to others (Cade 1985). Some may be considered as "haves" while some other reso

ted sha p. Hoy ring ma sing is

Due to

In oth al syste topped akdown **1978** 

family omic d and fa

Techno nts of m the proc increasi

forest :

econ agri

Technol of te m of sca

to impi

ave nots." Especially between those who are related by suinity or affinity, generalized sharing may take place the "haves" and the "have nots." Such kind of sharing to limit its focus to assure survival among those who are related by blood or ceremony. This type of preference has adaptive biological implication.

sharing, the behavior takes place within a particular ethnic However, in cases of inter-ethnic marriages, generalized may also cross ethnic boundaries. Such ethnic boundary is legitimized by the marriage ritual.

other cases, extreme scarcity of resources may convert a system into a complete anti-social one. Generalized sharing moved and a highly individualized system develops. There is a sown in fact, of the family as a basic social unit (Turnbull 1978). Infanticide and geronticide may be encouraged — mily as a social unit, is breaking apart because of extreme deprivation. Individualism breaks the procreative functional familial support of the domestic unit.

chnological shift or development is one of the achievement man designed to improve the efficiency of resource use.

Process, man has increased his level of production to meet reasing needs. On the other hand, technological shift or ment assists man when conditions of resource scarcity lace. It allows man to exploit other available resources in of disappearing traditional ones. The disappearance of less and its component resources led forest dwellers such legritos to domesticate crops and animals. Since their leads hunting, collecting and fishing technologies are no economically practical under the context of disappearing legricultural and animal husbandry have been recently

concluded the confidence of techniques to increase its appropriateness under a confidence resources. Such response enables the local population of the confidence of getting the desired output from resource such as a piece of land. While land may be avail-

able, its capacity to support plant life could be a very scarce remarkable source. This happens in a highly infertile or sub-fertile soil. Butter-group its very nature, soil fertility becomes a very scarce resource. Underablish this condition, various refinements in the agricultural technique and pack may be introduced such as soil conservation and improvement. in ad

When consumable resources get scarce, the logical behavior response is to limit consumption. Through the process of limiting consumption, the availability of a limited resource can be stretche to a certain extent both in time and the number of people serve ATA For instance, food resources may be conserved for a longer peri of time if the level of consumption is reduced. Clothing materia can be saved to clothe a larger number of people by allowing on a minimum covering for every individual.

Different groups of people have done in one way or anoth various ways of limiting consumption to handle the problem resource scarcity. However, the act of limiting consumption m have a negative effect on the practitioner if it is practiced too f For instance, when food consumption is reduced too much, t may lead to an irreversible negative effect on one's health. Su response, therefore, cannot be implemented on an unlimited bas

Assuming that the problem of resource scarcity is not to some members of a community may, therefore, still possess so resources, although may be limited. In the face of extreme ne for other resource, an available existing limited resource may mortgaged to individuals coming from similar or other eth groups. Such arrangement could lead to eventual loss of the mo gagor's resource to the mortgagee. Such response only provide temporary state of handling the problem of resource scarcity si it requires a re-investment on the part of the mortgagor in or to get back the resource from the mortgagee. Otherwise, the mo gagor lose his limited resource contributing further to scar of resources.

The argument that we have just claimed, proposes that in context of resource scarcity, the human population will have respond to the problem of limited resources. Such response tential is varied. However, in the process of adjusting one's havior to the problem, conflict of individual and societal inte mainta resent

The A ur from ng ar onary for t

have o

their

A fari or cro of co ths of for Decemb are s

> ced. I cropy at ero

Farms Frass the u mot gi erosion

Ata co

roup competition over the use of scarce resource. To resolved in the society, such conflict will have to be resolved.

ackage of human adaptation constitutes the people's poliadjusting to the problem of scarce resource. The attempts antaining one's control and access over a scarce resource a process of power play and individual struggle for

### ATA: THEIR PRESENT SOCIOECONOMIC CONDITIONS

Ata are presently agriculturalists trying to eke out a liva completely deforested land site. Hunting and colare only occasionally practiced at present largely as a diary activity from their boring and unproductive farming
Since hunting and collecting involve too much energy
travel to reach distant patches of forest, these activionly served as supplements to the products they derived
their farms.

cropping season, he plants about one kilo to ten kicorn seeds. Major cropping takes place between the of June to September. After harvest, the farm is cleared for the second cropping in the months between September mber. In the second cropping, farms tend to be smaller to that of the first. In some agricultural years when still available in December, a third cropping may be in-However, third cropping is a very rare practice. During propping periods, corn is monotonously planted. Very limitcrop, like camote (sweet potatoes) and cassava are plantso with vegetables.

asses and shrubs. In some cases, valleys are cultivated use of plow drawn by an ox or a carabao. Since farms given enough time to rest, soil fertility has gone down.

sion has intensified as the human activities on the hillmeased. Hence, productive soil is a very scarce resource in community.

Alth

mic g

age u

ies

of

eguh

The

who

8. W

The farms of the 18 Ata families in Cangguhub, Mabina and im Negros Oriental (around 87 kilometers northwest of Dumague City), are characterized by rugged terrain accentuated by small valleys where soils are good and safe by erosion. In most instance however, a farm is situated on sloping grounds where only verthin top soil has remained. Through the use of rockwalls and bis mass production along rockwalls, attempts are now made to retore the soil condition and improve soil fertility. Appropriate croping systems are tried towards improving productivity level the farms.

The Ata do not have any chance at all to expand their lapossession. At present, the Ata families are confined within a hectare plot which has been reserved for them through the interest vention of Silliman University in a forest reserved area of the government. Considering the cultural community status of Ata, the Bureau of Forest Development recognized the Ata occupation in the area as legitimate.

Given the land area available to the Ata and the size of Ata population, the 18 families have only slightly over one hect each to cultivate. Land is now a very scarce resource for the A With the low fertility of the soil, farm production is usually be subsistence level. This has further created the problem of scaresource among the Ata.

In order to augment the farm income, the Ata have resort to sell their labor for wages either in cash or in kind. Especial during the post harvest period, wage labor is a daily activity the Ata designed to tap the stored food of their lowland-migrocebuano neighbors. An Ata generally develops a special kind relationship with a Cebuano for preferential labor-use by the buano. This process secures the labor market for a particular A

By tradition, the Ata do not have a rigid, highly structus occiopolitical system. Its leadership system traditionally consist of council of elders whose members have a special power of hing. At present, these kinds of people are no longer found in community, hence their socio-political system is getting more long structured. With the increasing absorption of the Ata set

into the greater local barangay government, the Ata sociosystem has become a social fact whose functions are only
understood by its present members. Its leadership is
ransferred to younger individual members whose qualificaare no longer based on their traditional healing capability
traits such as aggressiveness, luquaciousness, and cosmomism. This group of elders try to resolve interpersonal con
and assures order within the population.

of intermarriage between the Cebuanos and the Ata. Such thic social link has increased the Ata control on the use those not available within the Ata community. By crossing boundaries some of the Ata have succeeded in widening conomic environment from where scarce resources can be

### DATA AND DISCUSSION OF FINDINGS

whose individual members were original settlers in the 21 hectares. They claimed that they were all born in the same with the same village unit.

other village unit has 12 families, composed of individmoved into Cangguhub when the 21-hectare piece of
opened for Negrito resettlement. The migrants generally
moved similar neighboring community around 10 to 15 kilonorthwest of Cangguhub. Such group identification has
to be loosely identified during normal condition and
when inter-personal conflict takes place between incoming from these two subgroups.

## Conflict Resolution

ncl

of

animals like chicken and farm crops such as corn and root
when an Ata from one group has his crop or livestock stol-

In 1

ed ar

year

still

to ra

fund

husb

tht in

wit

Ata :

usin

In

en, the accused is usually the Ata from another group. The Ceb anos are never accused by the Ata. Such accusation will alwalead to a joint effort between each group to make and deny accustion. Threats are made like murder accompanied by brandishir weapons in public by the accused group against the accusing group while it is true that stealing could have been done by one personance the accusation is generally hurled towards a collective unit. Sin it is difficult to identify the individual culprit, the whole group accused. This is based on the group's assumption that my or group will protect my own property. Hence, the victims nevacuse one from his own group. It should be one coming from another group.

Once the steam of anger between groups has already din nished, order seems to be re-established. Each group leader to pacify its own group members usually resulting into a compromise of inaction. The ax is buried and forgotten. Usually, the is recalled only when similar incident will happen in the future and a similar process will take place again.

Since members of each subgroup are generally linked by claffinal and consanguinal ties, the "we-feeling" with each subgrous very strong and in fact, gets stronger when such "we-feeling threatened. Hence, individual conflict within a sub-group is allowed to flourish, unlike between individuals coming from different subgroup identity.

This may be substantiated by an incident. The last Ata of who died in 1971 had seven children. The third daughter got moved to a mestizo Ata in 1969. The chief used to own a piece land which he got back from a Cebuano land grabber through intervention of the extension workers of Silliman University 1969. When the chief died, his widow decided to sell land for \$\mathbb{P}2.000\$ to one of her married children. The third daugmarried to a mestizo Ata, was the only interested party and willing to raise the amount. The arrangement was verbal and the was nothing that was signed by both parties to document the traction. Negotiation like this in the Ata tradition is only coverby verbal agreements approved by their traditional legal system.

and sentenced from eight to 14 years in Muntinglupa after are of imprisonment in Dumaguete City. While his case under investigation, his lawyer needed money. His mother raise the amount. Since his mother had difficulty in raising the finally asked his sister together with her mestizo band to raise \$\mathbb{P}2.000\$ for the land the couple had already in 1971. The murderer claimed that there was no docusupport their transaction. Such act is an attempt to unterior tradition by trying to invoke the present legal system government. Also, threats were made against his own and brother-in-law.

trouble. "We do not want to break up the family," the couled. Further, they justified the request by recognizing the the murderer was undergoing.

conflict was resolved within the family without involving members in the village. There is an apparent strong desire individuals of this kind to hasten resolution to maintain within the extended family.

ther case involved conflict over farm boundaries between farmers coming from two different subgroups. One was by another for tresspassing his farm boundary. While accusing, the other was denying. It almost led into a bladed weapons (bolo). Through the intervention of Ata, the fight was stopped. The individuals concerned in the position to resolve their own conflict personally.

two cases of conflicts cited earlier involved scarce resources. The only difference between the two cases are of the incidents. In the first, we have individuals who have by blood and affinity and belong to the same subthe other, we have two unrelated individuals coming different groups. In the first, there was no tremendous anger. Instead there was an apparent strong indicated desire to resolve between them the conflict amicably.

ıd

SI

Whe

can only be resolved by a third party. The cases suggest that the last case of actor which determines how one can demonstrate his and last conflicting issue and how such conflict can be resolved the identity of the persons involved. Basing on these in the dents, we can hypothesize that conflicting individual (over scarce capital resources) who come from two differences subgroup identities tend to express conflict with outburst of any which can only be resolved by the intervention of a third part of the conflicting individual subgroup identity, conflict is controlled without expressing any and with a strong desire of persons involved to resolve conflict the level of the conflicting individuals only.

When an Ata is accused of stealing by a Cebua another system of politics is demonstrated by the Ata. Two ge ral patterns of responses can be discerned. First, all Ata, rega less of their subgroup identity would close rank and provide solid front against the Cebuano. They would easily organize a The arm themselves with sharp weapons to engage in an armed common flict with the Cebuano. This, however, has never led into an order fight since nobody between the Cebuano and the Ata would the first salvo. Second, most of the Ata regardless of subgrater identity would close rank and provide solid front against Cebuano while few Ata (regardless of subgroup identity almost would align with the Cebuano because of a close and special some to economic link with the Cebuano. Normally, the latter kind of would simply keep quiet in the midst of anger and fury expression t by others. The special socioeconomic link between the few and a Cebuano provides the former access to the resources ow by the latter. For this privilege, the few Ata have to keep questions and show no support for the rest of the angered Ata.

Within the Ata context, this conflict is left to itself wit resolution. The expressed anger is only left to dissipate by until the enthusiasm to fight out with the Cebuano dies data this point, such conflict is forgotten until another similar cident takes place.

Then opportunities, like assistance acivities are provided to these are usually channelled through the local leadership Experiences show that the leader will always see to it that members of his own subgroup have been taken cared of first. this is followed by those who come from another group. among those who come from another subgroup, they to be graded by the leader according to his degree of to the other individuals. Those with closest social rewith the leader usually get priority in attention and those usually get the last attention. Such process of allocating opportunities has never been protested by the affected It appears that there is an agreement among members this arrangement. By virtue of the role of a leader, he prerogative to choose his own system of resource distri-In like manner, the leader does not have such control over people under such a loosely structured sociopolitical sysis through this manner of governance that the Ata enjoy freedom under all the changes they have to face today.

household is the smallest social unit of the Ata for proand consumption. Possible consumers of the household
are graded according to the degree of biological or social
regardless of subgroup or even ethnic identity. Because
thnic marriages now taking place among the Ata, biolosocial closeness may cross ethnic boundaries. The definipossible consumer of a household product gradually tapers
the speaker or spokesman of the household)
the speaker or spokesman of the household)
the politics of resource distribution, EGO will have a
ance of survival if he has established a wider and closer
within and outside the community. In fact, such concerns
and been expressed by some Ata when they aligned with
anic group even when their own members were socially
by another ethnic unit as we saw earlier.

111-115), an Ata household is on the average, smaller compared to their Cebuano neighbor them. Hence, during peak seasons in one agricultural cycle, lacks the necessary labor force to do the work on time.

This is usually compensated by pooled labor. A number of A may agree to work on each other's farm in sequence. The political problem of selecting participating members requires that all members and die o closely related to EGO preferably by consanguinity or affini Thus, pooled labor group generally consists of parents marr children, and sons or daughters-in-law. They claimed that un such composition, the working group is easily managed by EC This arrangement appears to be a preventive measure toward conflict development. Prevention is a cheaper system of manag conflict than correction when conflict has already taken plant Similar principle seems to be employed when EGO harvests farm products. Participating harvesters are generally screeand the basis employed for screening is similar to those used pooling labor. It is a focused form of altruism designed to incre the genetic survival chances of one's gene pool. As a behavious form of adjustment, it apparently has two social and biolog implications. First, it allows the household to manage competit and conflict economically. Second, it improves the survival chan of one's genetic resource. The second which has an evolutioni implication requires further testing in the future.

The data reveal that the Ata handle the problem of conf and competition on two levels. First, preventive measures are plemented. This is practiced on conditions where EGO has opportunity to make his own choice for his transactors. W perceived competition and conflict of interest anticipated to t place under a condition of scarce resource, EGO may decide select his own transactors who have the least potential for de oping conflict and competition with EGO. In this case, EGO ticipates the conflict and employs means to abort the developm of an anticipated problem.

Second, when conflict and competition have been already curred, a resolution has to be implemented. Between persons have social or biological links and are having similar subgr identity, both or either persons work willingly to arrive at a cer compromise between themselves. For persons who are not in way related and come from different subgroup identity, a t neutral party has to intervene to resolve the issue. This involve the use of local traditional system.

When s circu h the

Proc

On th ented rces; contr ent; r

> ed. At land Ata ha a liv w ma for n

> s such

Compe

The ir utilizin labor wercon and, t This

es sir

to w

For co In In use ba purel € Ata uffic

mont

when the conflict is between Ata and another ethnic group, problem is simply solved by allowing each other's anger to out. In due time, such conflict is forgotten. Under treumstance, few Ata may maintain alliance or alignment the other ethnic group for personal interest.

## Processes of Handling The Problem of Resource Scarcity

vil

are

to

ecid

rd

GO

lopt

read

sens

sube

a ce

ot in

v. a

This

the basis of our field data, the following have been imted by the Ata in handling their problem of scarcity of compensatory measures: exchange and trade; populaentrol; generalized sharing; technological shifts and develredirection of consumption; and morgage of resources.

At present, 18 families occupy a 21-hectare piece of land.

At present, 18 families occupy a 21-hectare piece of land.

And is surrounded by lowland Cebuano occupants. Hence.

Analysis have no leg room for expansion. Each Ata family has to living out of a slightly over one hectare farm. As an Ata matures, new labor in the household may be added. The more land is pressing but due to the absence of available such urgent demand is unattainable.

inadequacy of land supply against surplus labor is met bing the latter in other productive activities such as labor. To prevent immediate involution of land use caused econcentration of surplus household labor in a small piece this manpower is designed to other farms for wage this, of course, will contribute to further scarcity of resince return from wage labor is usually far below combat is usually derived from one's farm.

In the absence of commercial textile materials, the Ata bark cloth. In the absence of cereals like corn, the Ata burely subsist on root crops. While corn is considered Ata as their staple food, its low production does not allow afficient supply. They have to subsist on root crops during months of the year.

In the absence of protein supply from domestic animals commercial goods, the Ata have utilized animals found in the scarcity limited tertiary forest cover. These are wild cats and monke that Also, lizards and birds. These are hunted during occasion order to collective hunting activity.

Exchange and Trade: The Ata no longer confine econo activities in their own locality. They now have to take go coming from the outside. Such necessity has to be met thro economic transaction with the outside world using monet currency.

Through trade, the Ata derive cash from their prod from local middlemen. Such transaction is generally character by deliberate attempts on the part of the middlemen to un price the goods sold by the Ata and to overprice the goods by the middlemen. This practice has further increased the s city of resources among the Ata. Because of their innoce they are exploited.

Through networking, some of the Ata have succeeded having fair dealings with the middlemen. Until this time, I ever, this is still an exception rather than the role. Through network, an Ata may have his own products exchanged with ther having approximately equal value. Root crops may be changed with salt, soap, salted fish, kerosene and many more

Exchange or trade among the Ata takes place only bet two different ethnic groups. Since the Ata generally have similar category or nature of products, inter-Ata exchange trade cannot happen. The Ata have to seek other ethnic gr whose resources are different from what the former has. I has been exchanged, however, should not be considered as sur product. Production is still on a subsistence level. Through change and trade, the Ata are able to bring products into own locality which they do not produce locally. Since the proworks on the basis of replacement and not by addition, exchange or trade, therefore, has no role in increasing absolute produc of the Ata.

Populat bort, we c are deli

to has

At best a of the of sca ping the me affecte ected bri

> In an e the pu ared t ent. It babies depres

ulations

First, i endous are de nged l

Second, severel er of al but it e if con

Dispers a docume of avai mg else

. Unde

pulation Control: To establish the link between population arcity of resources among the Ata is difficult. Likewise, to that the Ata are deliberately controlling their population to yield their present fertility level is impossible. In we cannot make absolute statement at this point that the deliberately keeping their present population size to enable handle their problem of resource scarcity.

the Ata in relation to their attempts at handling the proscarce resources. We can therefore hypothesize that by their fertility down, the problem of scarce resource must fected their food supply so that their nutrition is heavily bringing sub-fecundity to mothers.

an earlier study (Cadeliña 1983:112-113), it was concluded pure Ata couples have rather low marital fertility ratio to mixed marriages. Such findings are still true at It was noted that for every 100 mothers aged 15-49, only lies are born compared to 750 among mixed Ata couples. It was fertility of the pure Ata couples is only open for lies.

it is possible that the Ata are facing the problem of scarcity of recources so that attempts at controlling deliberately followed such as postpartum sexual taboos, lactation and traditional contraception.

gh

and, the problem of food scarcity among the Ata might affected their reproductive capability so that a good of the Ata mothers become infertile. This is not intentite its implication on resource scarcity problem is still the controls were intentionally made.

mented among the Ata. The problem of deterioration and available land sites somewhere else prevented them from elsewhere. Hence, they have to keep their present resident this condition, the only option they have is fertility

Generalized Sharing: Giving for the sake of altruistic cern is still being observed among the Ata. It is a process of sing goods and resources without any expectation for a return is given like a gift (Sahlins 1965).

Generalized sharing usually involves food which are eit processed or unprocessed. A consumable good is usually gito another person as an expression of good will. It may also given as a recognition of another person's economic diffic which would therefore not require any reciprocation. Relat who have sickly members and cannot work for an indefinumber of days are usually the objects of such kindness. The disperses the resource from the "have" to the "have-not" holds.

This process of moving scarce resource from one house to another is highly diffused. It is only confined between clo related individuals. Hence, we expect this process to happen mo within the Ata population or within a subgroup of the Ata cases where inter-ethnic marriages have taken place, this for sharing consumable resources crosses ethnic boundary lines

Diffused sharing of scarce resources has important adap and evolutionistic implications. Adaptively, it provides effect management of scarce resources since within this level of rel individuals, there is an intensified form of generalized shar Hence, interhousehold flow of food resources is high, improone's chance of becoming a giver and a receiver under transaction. There is a good possibility that the act of gi can be approximately compensated for by what one will rein the whole cycle of giving and receiving. There may be no but in time of difficulty, one is able to survive through Households that are most of the time in deficit can be helpe households under a relatively more advantageous economic tion until such time that the former improves its economic st This is expected since a household is a dynamic social unit changes its constraints and opportunities over time (Cade 1983).

The character individual to other individual t

Technol
accompa
undon hu
med by fa
d produce
rest fr
il cats ar
hered.

rest. At wel agric med, at l root cro As a rewed their

Before,

universe and several measures soil, compared important productions in now

These are a system of it earlier is to till, soil on t

nung bea

chances for survival of the genetic pool of the transactdividuals under generalized sharing will be higher comto other non-transacting individuals. However, since every has its own unit of extended families, various subflower households establishing generalized sharing are formed.

mpanying minor resources has forced the Ata to partially hunting and collecting. What has been abandoned is referring. At present, around 99 percent of their house-moduct has been drawn from farming and wage labor and from occasional hunting and gathering. Lizards and are hunted at present, while honey is also occasionally

At present, the Ata have gone into intensive garden agriculture without fallowing. Every year, a farm is culture at least once a year, and planted with crops like corn crops as we saw earlier.

their agricultural practices through the assistanc of Siliniversity Research Action Development Program In The Such improvement consists of the introduction of proper magement and appropriate cropping system. Soil erosion measures are now put up on their farms designed to reinforcement of cropping systems, fruit trees, fuelwood more trees are now introduced in their farms to improve moduction and ecological balance in the area. Mixed cropnow encouraged between corn and leguminous crops such beans, soy beans, peanut and others.

system. These changes are designed to cope with the of increasing scarcity of soil and soil fertility. As we carrier, while the Ata are facing the problem of scarcity of till, they are also facing the problem of scarcity of the lands they own at present.

Reduction of Consumption: The Ata have seen the connected an inte between the availablilty of consumable resources and their of the season consumption pattern. By restricting consumption, the Ata have by consumption handled their problem of food scarcity. Normally, the Ata person three meals a day. During harvest season, the Ata (both class indiv dren and adults) are observed to take three meals, at least, in services the day. In some cases, snacks between meals are even served.

During post harvest period, when harvested crops are alreconsumed, the Ata are observed reducing the number of me they eat. Likewise, the children are observed to have reduced However, the Ata give food preference to the younger child During lean months, adults are observed to have taken only meal while the children may have, once in a while, two meals. I ertheless, single meal becomes the rule during lean months both children and adults. While the number of meals one day has been reduced, the quantity of food served in a is also diminished. This of course, as we mentioned earlier, the have an irreversible negative effect on their health. Impression eith tic observation on the Ata physique shows more bodily fat a mem of me mulation during harvest season and a reduction of this during of scan lean months. They tend to be lethargic during post harvest see when food intake is limited. Thus, most bodily activities have affected by food consumption reduction.

Mortgage of Resources: Emergency needs for cash have to mortgages of the Ata limited capital resource even land clearing. For instance, the procurement of plan seed materials is their usual annual problem. Due to the absection of cash to purchase costly seeds during planting season, mortgage part of their land clearing for one cropping to o ethnic group like the Cebuano. After the cropping, the land c ing goes back to the Ata. Generally, mortgages are made in su way that the Ata do not have to pay at maturity. It is a measure against the possibility of foreclosure.

### SUMMARY

Competition over the use of limited resources, usually to inter-Ata conflict. This may involve capital and consumer selecting resources. Conflict over these limited resources are resolved entered, resi

matted by

Cebuan lolem is dents to rt expre not le ano w ic dem

Genera

In han Ata ha ralized

reduct For ex

artuniti ership mg. mos to his w hand ating k

be foll

interpersonal level or via the traditional loose community structure. Conflict between individuals who are related by consanguinity or affinity is generally resolved on an exonal level. On the other hand, conflict between unre-individuals coming from two different subgroups usually the intervention of a neutral third party usually repre-

is remembered. This is usually forgotten when similar take place. While conflicts of this nature may lead into appression of anger on the part of the Ata, this normally lead into an open fight since neither of the Ata nor the would start the physical confrontation. It is simply a demonstration of ill-feeling which only dies down later.

the transaction to limited households whose members are either by consanguinity or affinity. It is a preventive measure against possible development of conflict in the sarce resources.

have implemented seven measures: (1) compensatory
(2) exchange and trade; (3) population control; (4)
sharing; (5) technological shifts and development;
control of consumption; and (7) mortgage of resources.

extension implication, the distribution of resources or ties should not be directly channelled through the local system of the Ata. Since subgroup identity is very likely local leaders would favorably extend all beneown subgroup. Hence, assistance program should diadle (only with the assistance of local leadership) in benefits to the Ata. The reverse, which is ideal, should lowed for this particular native population.

the data: Danilo Sollesta and Rodrigo Puracan. (Sollesta, persone from the project shortly before the poject te minated.)

In 198

The st

s for condit

the

dev

pmen

at cou

m goals

First.

oring

By in

e crop

ing sy

reduc

second

upla upla

we the

bird,

of

Lak

#### REFERENCES

Bernarde, M.A. (1970). Our precarious habitat. New York: Nor Bomgaarts, J. (1980). "Does malnutrition affect fecundity: summary of evidence," Science, 208:564-569.

Borgstrom, G. (1971). Too many: An ecological overview of

earth's limitations. New York: Collier.

(1967). The hungry planet: The modern world the age famine. New York: Collier.

Boulding, K. (1961). "Is scarcity dead"? Public Interest, 5:36 popular Cadeliña, R. (1985). In time of want and plenty. The Batak perience. Dumaguete City: Silliman University.

(1983). "Comparative fertility analysis: The Ata Negros Oriental", Silliman Journal, 30 (3-4): 111-

Chagnon, N. (1977). "Protein deficiency and tribal warfare Amazonia: New data", Science, 203:910-913.

Chagnon, N. and R. Hames (1979). The food crisis in prehist New Haven: Yale University Press.

Dumond, D. E. (1977). "The limitation of human population natural history", Science, 187:713-721.

Frisch, R. E. (1980). "Fatness, puberty and fertility", Annal Human Genetics 161ffg.

Green, C. S. III (1973). "Politics, equality and the end of p ress", Alternatives, 2 (2):4-9.

Jochin, M. A. (1981). Strategies for survival: Cultural beha in an ecological context. New York: Academic Press

Lee, R. B. (1968). "What hunters do for a living, or, how to m out of scarce resources", in Man the Hunter. R. Lee I. De Vore (eds.). Ch cago: Aldine Press, pp. 30-48

Little, C. E. (1973). "The environment of the poor: Who give damn?" Conservation Foundation Letter, July.

Prothero, R. M. and M. Chapman (eds.), (1984). Circulation Third World Countries. London: Routledge and Ke Paul.

Sahlins, M. D. (1965)). "On the sociology of primitive exchange in The relevance of models for social anthropology Banton (ed.). London: Tavistock, pp. 139-236.

Turnbull, C. (1978). "Rethinking the Ik: A functional non-s system", in Extinction and survival in human population tion. C. D. Laughlin and I. R. Brady (eds.). New Yo Columbia University Press, pp. 49-75.

(1972). The mountain people. New York: Simon Shuster.

Wiens, J. A. (1977). "On competition and variable env ments". American Scientist, 65:590-597.