TRIP TO THE BARG SULLA PROJECT

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Introduction

The following report is of my trip to BRAC's Sulls Project in Sylhet. I arrived on I December and lift the sorning of 15 December. I visited a total of eight damps and talked with same of the staff. During the last few days of my visit, a rice training course conducted by infifur Sahman and myself was held for some of the staff. BRAC is working at an integrated rural development program, which includes agriculture, function education, health, family planning, as well as other aspects. A main purpose of the program is to raise the consciousness of the people so that the program and development some from the people. I concerned myself mainly with the agrilture program, and specifically rec. The purpose of this report is to record information in an orderly manner for symmetry and to report findings and suggestions to BRAC personnel. Therefore not all of the information will apply to everyone.

Land and Grosping Pattern

BHAC's Sulla Project is get in the middle of the hoor area. In the rainy seeson, almost all of the land is covered by water, at depths of up to twenty foot. In many areas, the only portion remaining above water is the land on which the villages are built. The terrain, however, is not completely flat and water depth varies. Host of the area is the bil or hapr land, some of which is flooded the whole year. In most places, the rest of the land would be called lowland, but in the bil areas, it is called upland. In the rainy season, this land is shallowly flooded with 3 - 4 feet of water. It is the first land to dry out is the fall and the last to flood in the spring. On some of this land, a late Aman is transplanted as the water receies. In other areas, IRRI rice is grown as a boro crop. 188 and 189 are the main varieties grown. This is possible because it one be transplanted earlier than the bil areas, and floods up to one month later. A lot of the upland, however, is government land which supports no grain crop. It would need levelling to grow rice and is used for grazing outile, grazing sattley growing thatch for roofs, and threshing-rice-

these are cultivated by the season. Small amounts of mustard, potatoes, and sepat potatoes are also grown. However, the largest amount of land is the bils where local bore is the only crop grown. The rice is transplanted towards the center as the water becades. Seconds it is thelowest part, the land which is transplanted last floods first, so the growing session is the shortest. Since some of this has standing mater year round, the rice meets to be carried come distance to be

Agriculture Progress

Vegetables

Each of the ten camps sold some vegetable seeds, some more than others. The greatest domand was for towato and subbage seed. At some camps, the seed was sold in the villages, while at others, the villagers came to the samp for seeds. Many of the camps also planted a vegetable garden at the camp, for demonstration and their own use. One of the staff has attended a one month vegetable training at Tangail, and this year he gave a three day training to six of the staff.

Cooperations

This occupied the major part of the agriculture program. Most of the cooperatives will cultivate rice, with a few cultivating mustard or sweet potatoes. There are also fisherman cooperatives. This year BRAG will be working with 20 - 30 cooperatives and will give loans totalling about Take 400,000. The following refers to those cultivating rice.

The cooperatives are made up of a hemogeneous group of recule. This reduces the amount of friction within the co-operative. BRAG is trying to work with the most destitute, which includes the landless farmers. Nost convertives range in size from 20 to 60 acres, and the land is cultive ed collectively with production divided equally emong the fermers. A few of the cooperatives are renting land from larger landoumers, but many have now received government land. The government has a policy of lessing or selling land to landless furmers. However, before cultivation the land requires levelling. Also the cost of all the inputs must be supplied before a grop is received. Without help some of the land would slowly how to be sold to the rich topay off debts. Therefore BRAC provides grants for levelling the land, and is providing loans at 12% interest for production. One good agpect of the loans is that they cover the total need, both produc tion and living. so that dependence on the moneyleader is reduced. The le are dispersed as meade for inputs (about monthly.) and repayment is in May and June. BRAG also recommends keeping encefourth of the total produc tion as savings so that the loan can be decreased next your.

Mice Seed Multiplication

BRAC felt that one of the major constraints to increased production was thouse of poor quality seed. Rice used for seed is the same quality as that used for food. For this reason, a seed multiplication project i being started, using the cooperatives they are working with. Five mand a

of BH-3 and one maund of BH-7 were purchased from the BRRI substation at Habiganj. All the details of the project have not been worked out, but one plan is to distribute seed to the cooperatives who will grow it and then sell it back to BRAG, who will then store it in some intermedeate sign grain storage bins which will be built.

Recommendations

while I did not look extensively at the vegetable program, I did notce that most of the gardens seemed to be planted late. When I returned to Comilla, most winter vegetables were already available on the market, while at Sulla, most of the gardens had just recently been transplanted, and very few vegetables were available. While late rains may delay planting some, testing should be done to see if vegetables can be planted earlier. This may require land preparation at different times, with the upper portion of the garden closest to the bari being cultivated first, and the rest cultivated as it dries.

The cooperatives are an excellent opportunity for doing large size demonstration of new varieties. Since they are farmed collectively, the risk to any one farmer is minimal. The same can be done with cultural practices. By taking a large size field and making sure that things are done correctly (proper fertilizer rate and time of application, proper weeding, etc.), the farmers can see the advantages for themselves, and the total expense is not placed on one farmer.

At present, the BRAC fields at Atgaon and other camps are used only for demonstration and seed multiplication. I recommend that they also be used for testing. Variety testing, as well as fertiliser trials, could be carried out. Since the BRAC fields are upland, the soil would be similar to the soil in most of the cooperatives. Also wheat should be tested more extensively. Wheat should be able to grow well, especially where no T Aman is grown and it can be planted at the proper planting date. The production cost for wheat is less than for rice and therefore the initial outlay, before receiving a crop, would be less. Also levelling is not as critical since the field is not flooded.

A significant contribution could also be made by doing tests in farmers fields on the haar land. To my knowledge, little testing has been done on this soil. A number of trials could be done. One important group would be fertilizer trials to find the most economical dose. Variety trials with the best local vatieties in an area and local improved vatieties sould be carried out. Also trials to see what rates of nitrogen different varieties respond to would be of value.

Hany of the details of the rice seed multiplication project need to be completed. I do not agree completely with the assumption that poor quality seed is a major constraint to increased production. The quality of the seed is not as important with transplanted rice as it is for direct

secded rice where good germination is required for a good uniform stand. With transplanted rice, poorer quality seed can be compensated for by increasing the size of the meedbed and selectinghhealthy meedlings. Hore important for production is the variety used and the cultural practices followed. Although I disagree with the importance of seed quality, a seed multiplication project can be useful to increase the availability of newly introduced warieties. However, for this to be successful, the watisties extended must be accepted by the farmers. BS-3 has been accepted as an Aus variety and is being accepted for Boro in some areas. BB-7 with a lover yield, but better esting quality, may also have a role. The real test of a variety, though, is not how it performs on an experimental station, but whether the furgors will accept it. One example of this is the variety Pajam. Although it is not a recommended vaticity, it now covers about 33% of the rice acronge in Comilla District, more than all the HYVs combined because it has qualities the farmers like. The only way to test farmer acceptance is to get the variety in the field. Thus a seed multiplicatio n project can be started, but a strong extension effort will be required with it.

There are different ways a seed multiplication could be run. One is a centralized system where the seed is collected and stored at one or several storage sites. Another is a descentralized system where the seed remains in the control of the individual farmers. Both these systems have advantages and disadvantages.

In a contralised system, seed would be distributed to selected faraereor groups of farmers, possibly on contract, who would multiply the seed.
It would then be bought back either at a predetermined price or a price
somewhat over the market price. One advantage of this system is that it
provides better quality control. Although mixing could occur during
harvesting and threshing, there is less chance for mixing in storage.
A second advantage is that a closer watch can be kept on quality. With
the grain in a few contralised storage structures, problems can be detected earlier and some readily. A disadvantage is that medium size storage
structures are required. Also, if damage does occur, a larger percentage
of thems seed will be ruined than if the seed is stored in smaller structures. Another disadvantage is that some system will be required for
extending the seed. Once the farmers sell the seed, they will not be
responsible for its distribution.

In a decentralised system, the seed would six always remain under the direct control of the farsers who grow it. Large scale storage would not necessarily be required. Seed could be kept by farmers in their baris. If each person in a cooperative stored only two maunds, a considerable quantity of seed could be stored. I'm sure that some farmers always produce good quality seed and a survey of storage methods and structures would show mint which ones are best. Another advantage of

this system is that it uses a system that the fermers are familiar with, at present, almost all fermers either store their our seed or close buy seed from the bert of a fermers who produced good seed. Very little seed in sold in the market. By using a familiar system, the problems of need sale and extension would be leasened. Still another advantage is that it leaves direct control with the farmer. This is in beeping with NAACEs as objective to increase the considerance of the people. By leaving it in the farmer's control, they are responsible for the success of the project. The benefits also go directly to the producer. A dissidenatage of this ay against is that there is lone variety and quality central. Farmers would have to be scawinged of the importance of maintaining varietal purity and solding only quality much to build by a reputation on producers of good seeds.

I resomened uning the decembralised syntem. I did not look at present storage familities, but even if it is fait that larger centralized storage structures are required, it would still be best to leave control of the seed with the formers. One problem with large storage structures in what happens to then then this leaves (schedaled project completion date is Secomber, 1950). It remains to be seem whather a those level cooperative approxication would be strong enough at that time to seintain control of them. I believe the adventages of a decentralized system outweigh the diendrantages of quality control. Farmer to fermer meed distribution onn be a very & officials extension cretro. Again hains to a good againsto. Little and was ever distributed formally, yet it now covers large acreages. If a fow moments of mood evaling model are purposeed truth your and that and pocume name honoration and are multiplied, purity can be maintained. It requires that the fermore are informed of the necessity for it. The project will be augreenful win after BEAS leaves only if the furners are convinced that it is necessary and receive none direct economic benefit from it.

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Conclusion

The trip to Sylhet was a very good experience for so and I enjoyed working with the SHAC personn el. I was impressed with the goals of the project of trying to benefit the poorest. The enthusiass and shilities my of the personnel were good and everyone helped make my stay a pleasant one.