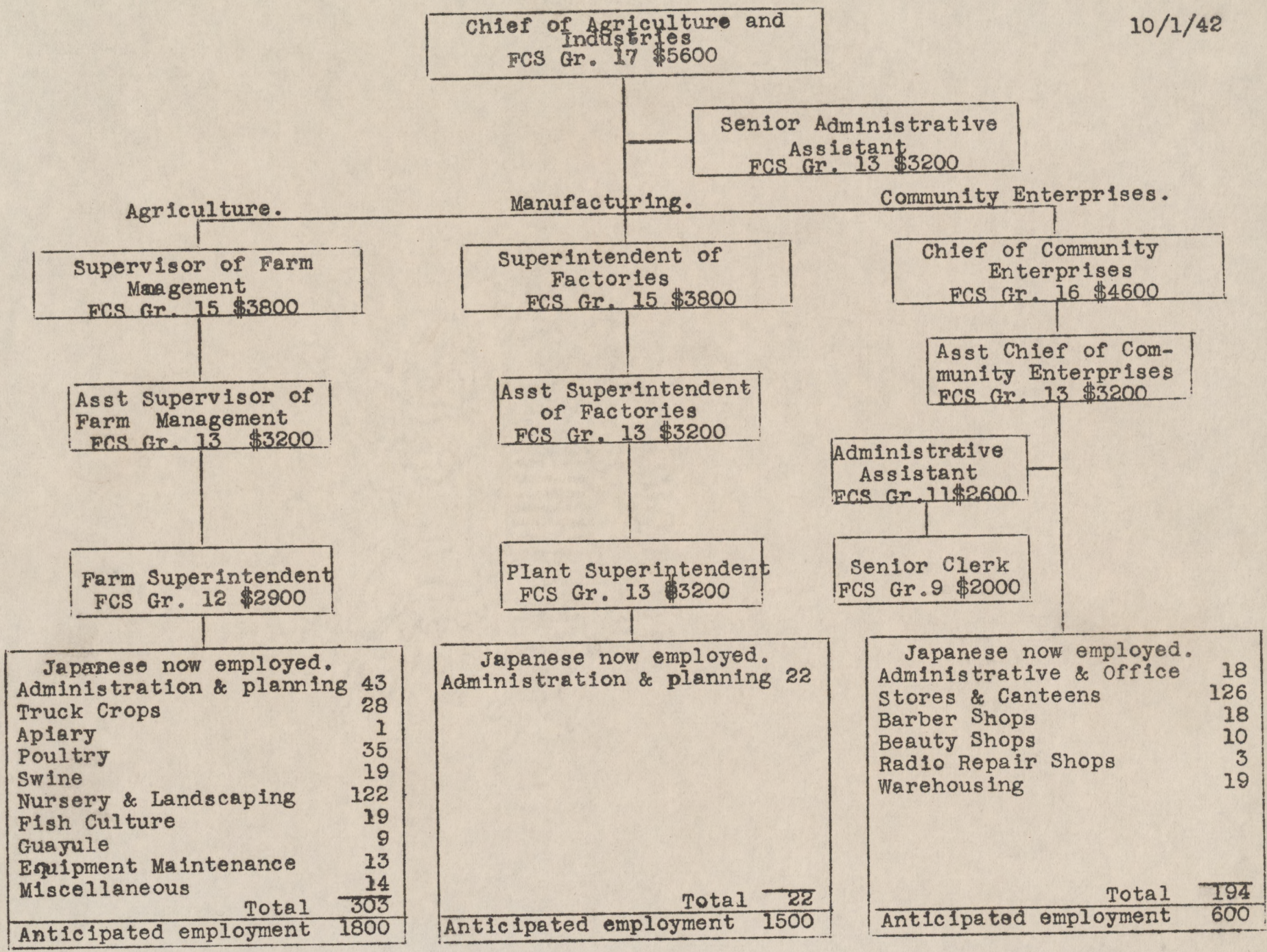


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AGRICULTURAL RESEARCH\*

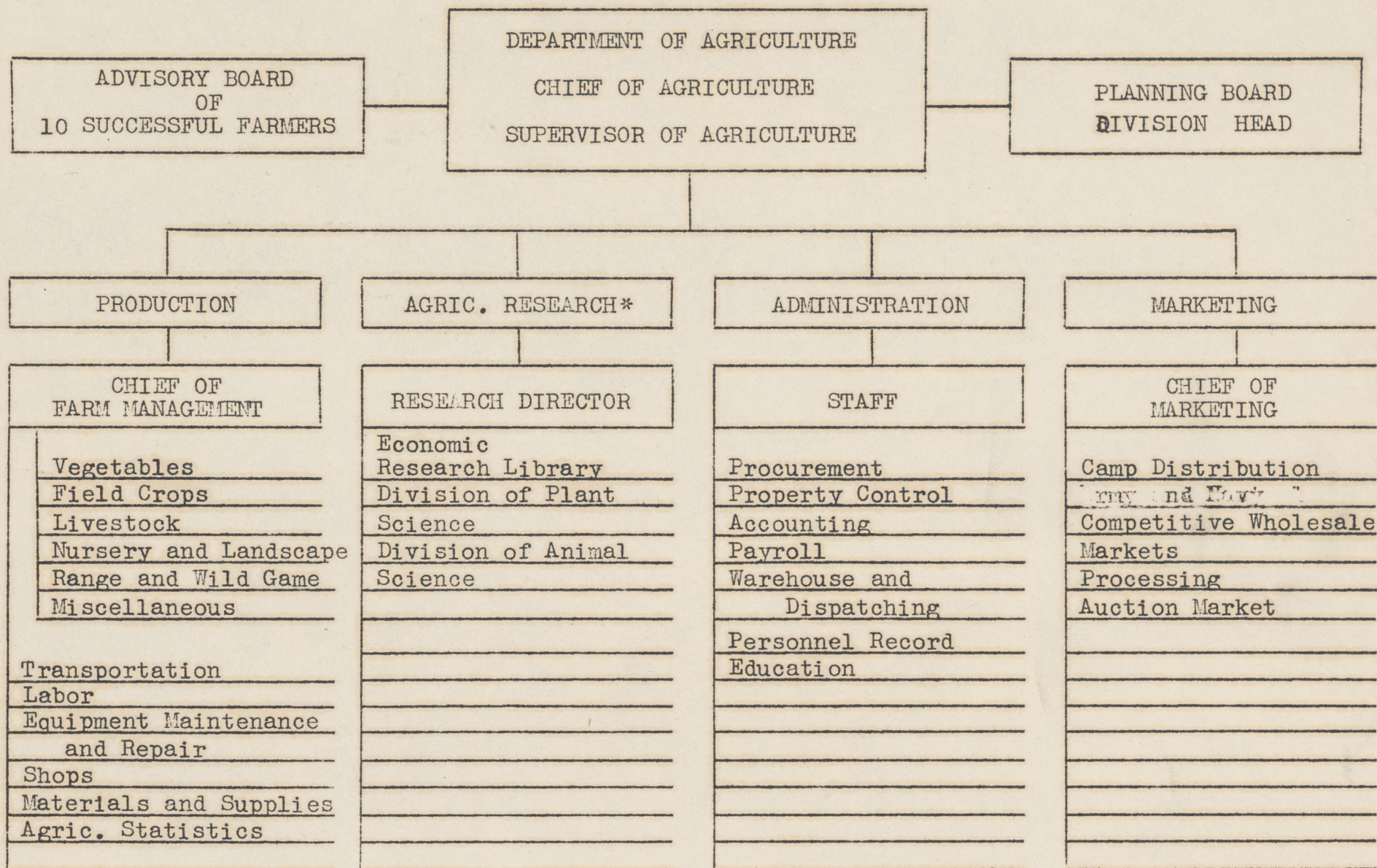
DIVISION OF PLANT  
SCIENCE DIRECTOR

1. Disease Control  
(Plant Pathology)
2. Pest Control  
(Entomology)
3. Soil Science  
Plant Nutrition  
Soil Survey
4. Horticulture  
Fruits and berries  
Plant Introduction
5. Agronomy  
Field Crops  
Plant Introduction
6. Plant Breeding
7. Library (Librarian)  
and Secretary

DIVISION OF ANIMAL  
SCIENCE DIRECTOR

1. Disease Control
2. Breeding
3. Poultry
4. Etc.
5. Library (Librarian)  
and Secretary





\*Colorado River War Relocation Authority Agriculture Experiment Station

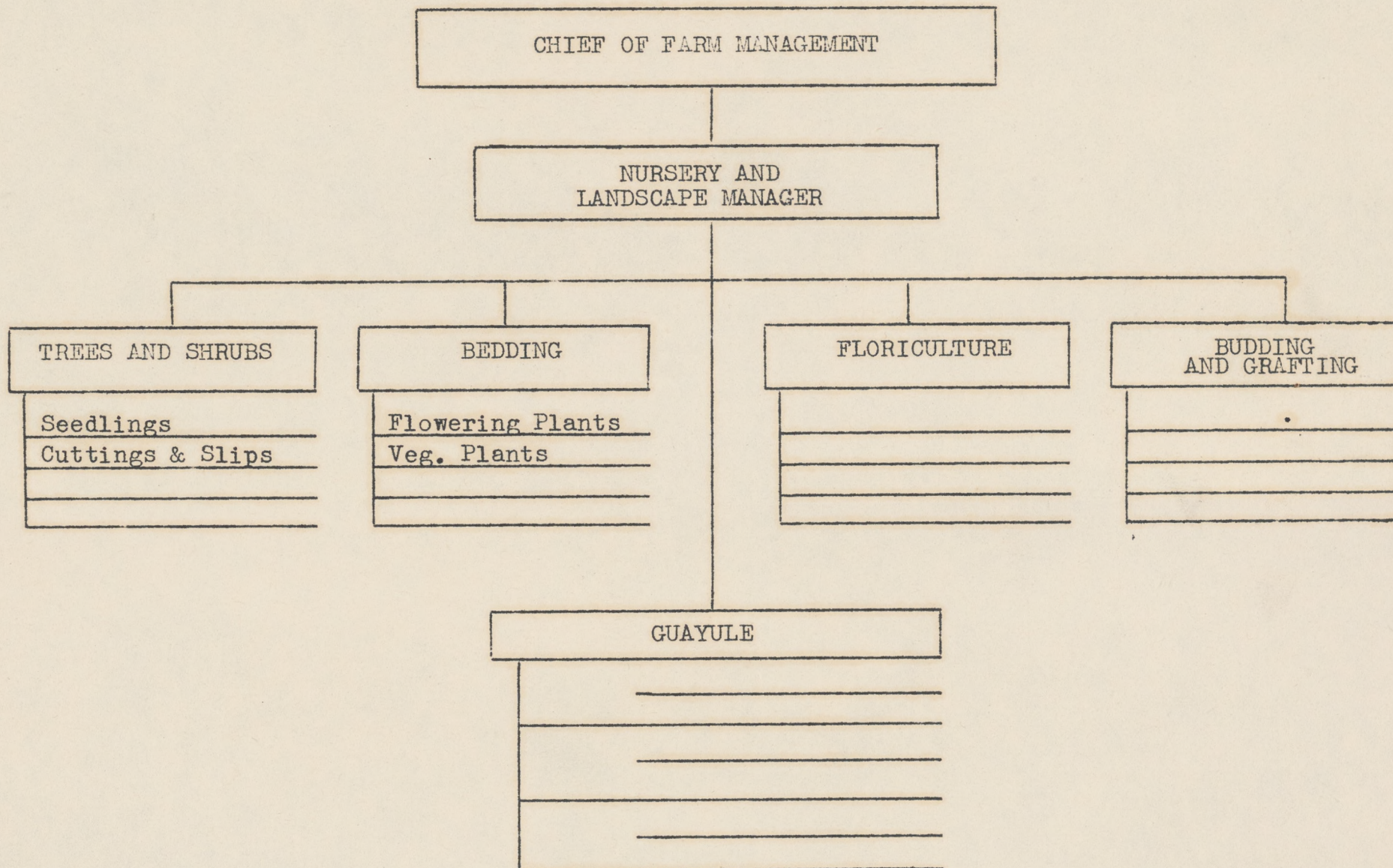


PRODUCTION

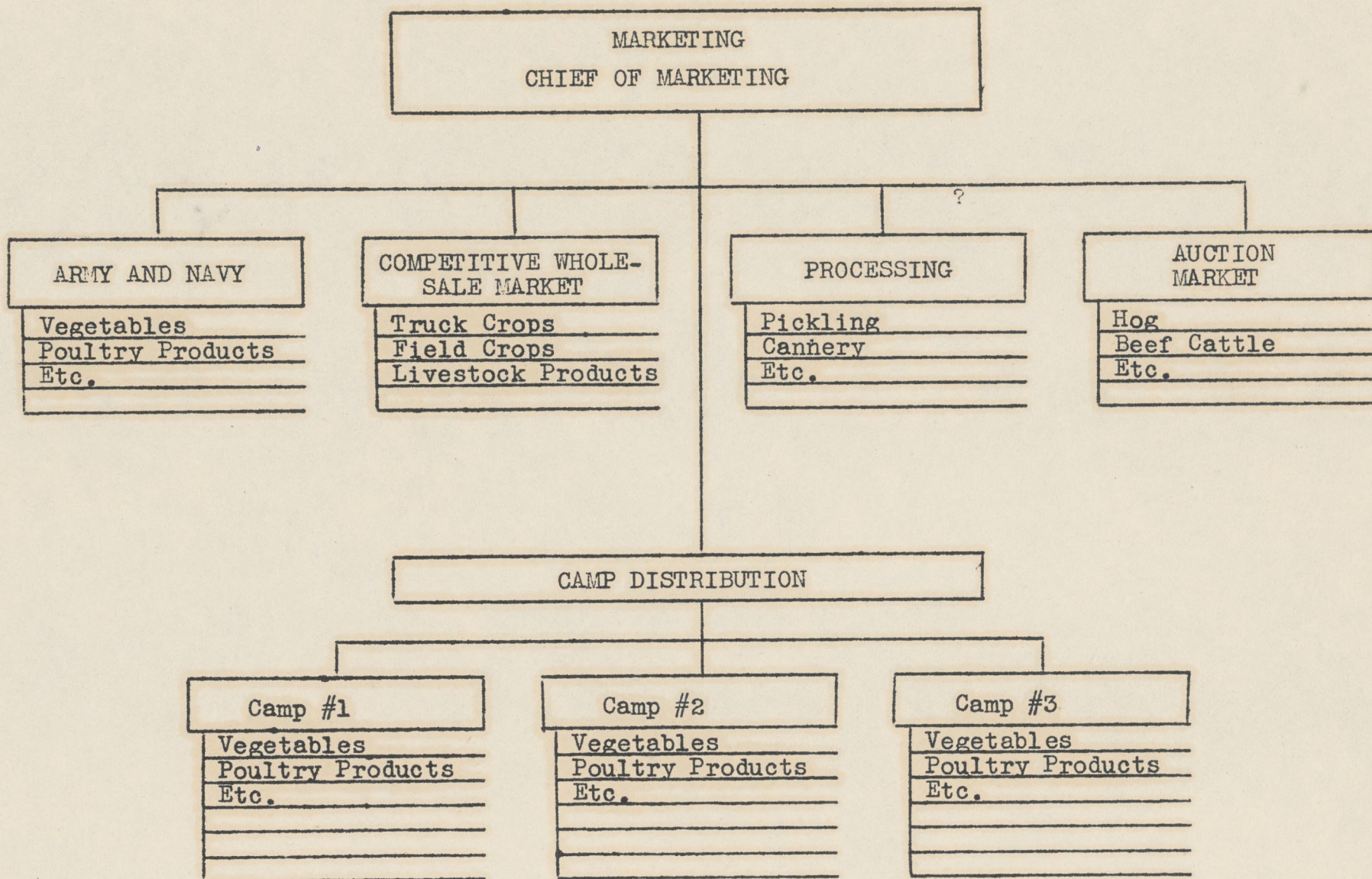
CHIEF OF FARM MANAGEMENT

VEGETABLES	FIELD CROPS	LIVESTOCKS	RANGE-WILD GAME	MISCELLANEOUS
1. Camp Consump- tional	1. Hay & Hay Grain	1. Poultry	1. Range Manage- ment	1. Apiary-Beehive
2. Vegetable Forcing	2. Root Crops	2. Hogs	2. Wild Game	2. Rodent - Pest Control
3. Truck Farm	3. Grain & Corn	3. Dairy	3.	3.
4.	4.	4. Beef	4.	4.
5. Seed Growing	5.	5. Fish	5.	5.





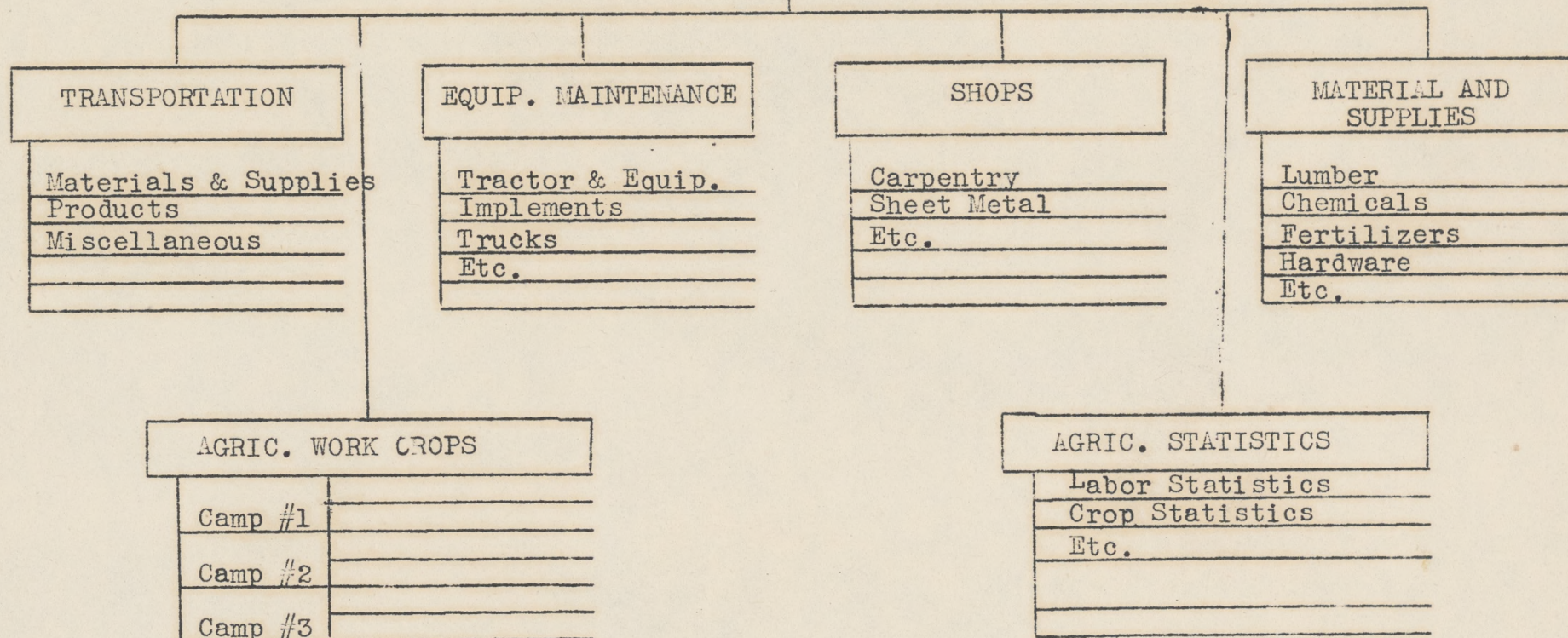




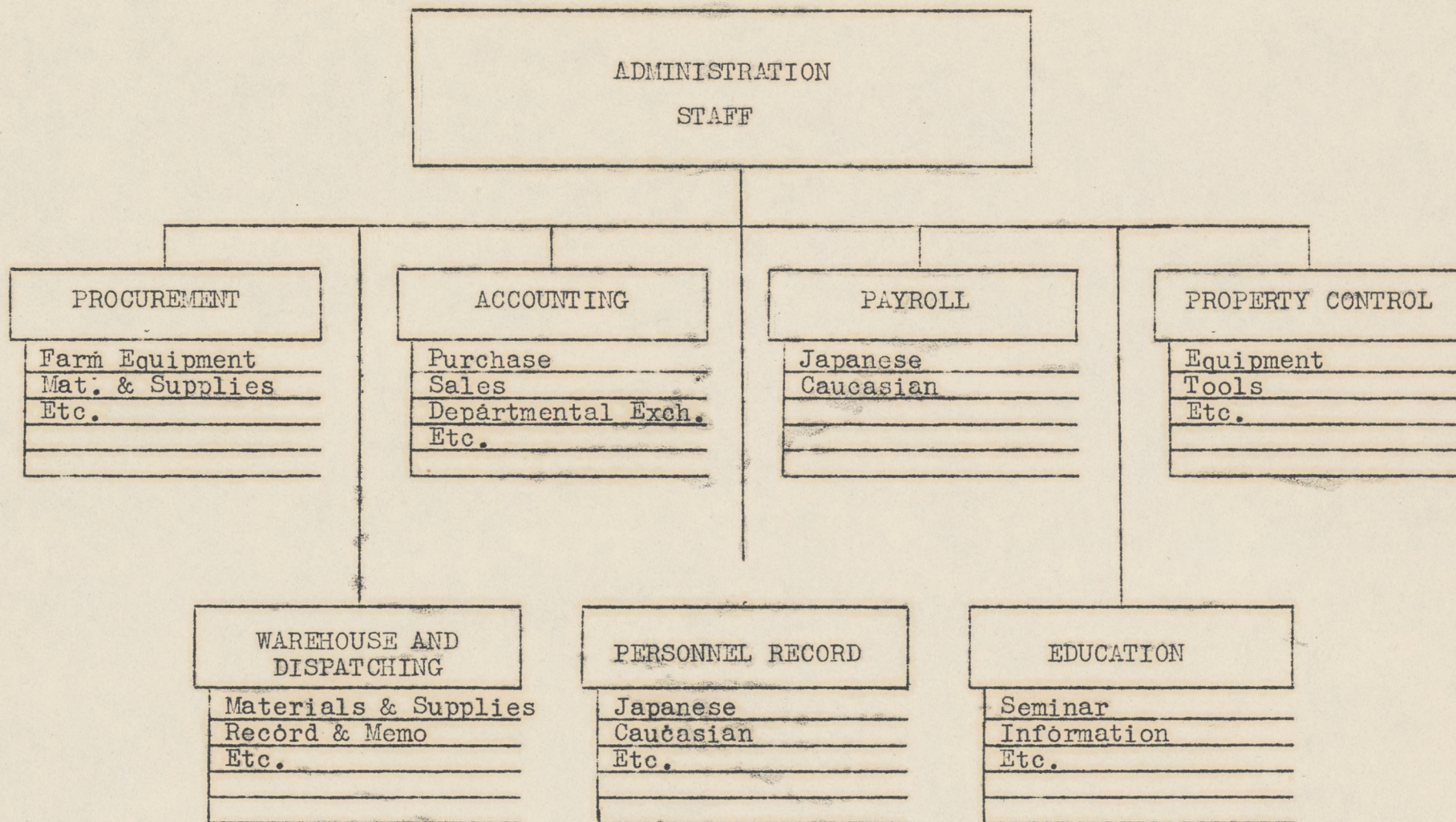


CHIEF OF FARM MANAGEMENT

FARM MANAGEMENT









I appreciate the opportunity to discuss the Agriculture program of our Camp One. We have tried our best to perform our proposed programs in spite of many handicaps such as; red-tape, labor shortage, etc. Our schedule is under way and progressing better than we expected, except for two of our divisions, namely Swine and Poultry. These two divisions are very important for our food production program. At this time I would like to take a few minutes in explaining to you about these two divisions.

I will explain the Swine Division first. We are taking care of our swine at the temporary site as you know without proper buildings, shades and watering system. The proper water system is an important factor in raising livestock. At the present time we are hauling all of the water by truck day and nite. It is foolish to attempt raising livestock without the proper watering system. Especially in hot climate like our Poston summer, hogs need lots of water to cool themselves off during the hot weather. We lost a number of good hogs during the last summer due to the excessive heat. Therefore, as soon as I stepped into the Agriculture Department about six months ago, I did my best to push the construction of the new Swine Site according to the original plans made and approved in Washington. I am very sorry to say at this time that the progress made in carrying out this program was nil. On this new site, we have the pipe line laid and one farrowing pen half completed. There is always something happening to postpone our work such as lack of material and changing of the original plans. All of these handicaps I could state in one sentence---Lack of cooperation with our Acting Agriculture Chief. As I understand, the swine's original plan for the new site has been approved by Washington and all necessary materials are supposed to be in stock. Yet we cannot seem to make any headway; this, I cannot understand. About two months ago, I organized a crew to construct the swine buildings with the approval of Mr. Rupke and Mr. Sharp. This crew was making very good headway. They finished laying the watering system and started to construct farrowing pens. We were ready to pour concrete for flooring so I asked for sand and gravel and was told that we could not get deliveries for at least four weeks. Thus the Construction Crew was used to help other divisions until material and supplies were made available. Four weeks



have past and now I have been told that all construction will be taken care of by Mr. Popkins. I would like to know where we really stand. If Mr. Popkins is going to construct all of these buildings in due time, everything will be all right, but I doubt very much if the buildings will be constructed. When next summer comes around, there will be no buildings to shelter the hogs. We have constructed temporary farrowing pens but these are not enough to take care of our hogs so it is very urgent that the new swine buildings be constructed as soon as possible. In order that we may be assured of having buildings to shelter our hogs for the next summer, I would appreciate your cooperation in furnishing us with necessary materials and supplies to do this work ourselves. I assure you that we can do this construction work for we have a very capable man and his crew to do this work.

Secondly, our Poultry Division: The Poultry Division has plans for raising 20,000 birds for the coming season. We are trying our best to complete construction by February but we have encountered the same difficulty in shortage of material. I hope you will look into this matter also. The reason for the rush in construction is that the seasonal workers are back in camp and we are able to hire capable young men to do this work. If we should wait too long, these men are going to leave camp again and we will encounter difficulties due to lack of efficient laborers. As we look ahead, there is going to be lots of work in this division and immediate attention is needed.

I would like to say a few words in regards to our Field Crop Division. We have planted 200 acres of Alfalfa this fall and we have put in a Purchase Order for a Fox Hay Chopping machine. I hope that you will make proper arrangements for the delivery of this machine by March. This chopping machine is the only ideal machine to harvest Alfalfa. We have several hundred acres of Barley Crop and we are going to need a Combine to harvest this grain. During this last quarter we had a very hard time in harvesting our Milo Maize crop because of the fact that we did not have a Combine to harvest with. We are going to face the same difficulty in harvesting our Barley crop if this Combine is not purchased.

Before I close I would like to make another request and



that is, since all divisions have been assigned a quota for man-power, I feel it is only fair that we have some say in regards to assigning labor under our quota. At the present time there are groups such as fencing crew and landscape division working under our Agriculture quota and I feel that if they come under our quota, we should have some control over them. I hope you will try to make these corrections.



MEMO TO: W.C.SHARP

FROM: Agriculture Department--Board of Directors, Camp I

SUBJECT: Block Gardeners

At a meeting held by the Board of Directors of Camp I Agriculture Department on Friday afternoon, March 31, 1944, the body present passed the following resolution: regarding the work cards of Block Gardeners.

Whereas: the quota for operating our present agriculture program has been reduced to a minimum and our appropriation for our general operations are limited, it will be difficult to carry out the program for this fiscal year.

And whereas: if we are given the responsibility of taking on the Block Gardeners in our department, it will be very difficult to appropriate time (payroll) according to the new cost accounting system.

And whereas: if the payroll of these Block Gardeners are charged to our food production division, it will not only be a drain on our financial appropriation but will also increase the cost of subsistence causing the people to suffer the consequence.

Therefore, be it resolved here that Camp I Agriculture Department go on record that we do not want to take the responsibility of the Block Gardeners or such person assigned to our division. But realizing the position of our block welfare, we will be willing to have them assigned to our department with the following conditions listed below.

1. They furnish 36 work cards, (not under our present Agriculture quata).
2. They furnish 3 foreman work cards.
3. They furnish 1 time keeper work card.
4. They furnish means of transportation.
5. They furnish all necessary farm implements, (hand tools).
6. Any material or services necessary to maintain block gardens will not be issued by our department.
7. In case, we are in need of help in any of our divisions, we will have the authority to demand the aid of these Block Gardeners to work in any of our divisions for any length of time as we so desire.

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Continued-----

8. No time will be given by our Agriculture Department except for actual work done for our various divisions.
9. In case of further reduction of Agricultural quota in the future these Block Gardners will be terminated first.

Signed:

Y. Shimomaye  
F. Otsuka  
S. Okabe  
H. Minami  
K. Morita  
S. Okuma  
M. Mitsunaga  
K. Sato  
S. Ito  
S. Arikawa  
I. Omori

cc: Duncan Mills  
R. H. Rupkey  
Judge Nomura  
Tom Sakai



DEPARTMENT OF AGRICULTURE

DIVISION REPORTS

June 15 - June 20

1942

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June 15, 1942

REPORT OF WEEK 13-19

The first couple of days were spent in determining the effectiveness of an ant poison (Leif green). This was tried at various spots in camp and was found to be fairly effective within a few hours. Consulting Mr. Kido, it was concluded that it was inadvisable to use this powdered form of insecticide in camp because of the presence of so many children thereby being dangerous to use in such vicinities.

One day was spent in investigating the sewerage disposal location at the south west end of camp in order to determine if house-flies were breeding there or not. It was concluded after consulting Mr. Kido who was the other person in the inspection party that flies were not breeding there because of the fact that there wasn't a suitable medium. (Solid or semi-solid moss of breeding material).

The remainder of the time was spent in literature research along various places of the Entomological field.

Submitted by,

George T. Adachi  
Entomologist



June 16, 1942

TO: Mr. W. C. SHARP

FROM: LYLE KURISAKI  
Farm Management Division

SUBJECT: Weekly Report

The Farm Management Division has selected an advisory board with representatives from all farming districts who are specialists in certain type of crops. This Department is under the supervision of Harvey Suzuki, Department of Agronomy. The Department of Tractor and Maintenance has been organized with Henry Sakemi in charge. Requisition for machinery for opening and cultivating 3,000 acres, tools for building equipment and maintenance of equipment and tractors, has been filed with Mr. H. A. Mathiesen. The Seed Division, under James Katayama, also is functioning, and they have also made a requisition for seed that could be planted in this type of soil and climate.

The Farm Management is in charge of this 2,000 acres enterprise, which shall be ready for fall and winter planting. The actual farming operation will be done by district system, on a thirty acre basis. The clearing is to be done by Mr. Rupkey, although we have been instrumental in supplying men to work in subjugation. Men are being supplied by this Department for the Dust Control Crew.

A temporary plot of twenty-five acres has been assigned to Frank Fukuda. This plot has already been cleared, leveled, and now ready for irrigation. It was suggested, however, that before any further operation be carried out that this place be derooted of all roots and unnecessary stumps.

This organization, with the cooperation of all block managers, has been able to get all available capable men to report to the Subjugation Crew. Approximately 100 men have reported, but this amount must be increased to about 150 to 200 persons. The lack of transportation facilities



has been one of the handicaps which this organization has had to face. This is one of the factors for men not reporting consistently to work. At present, although there is one truck for transportation purposes, most of it has been done by means of trailer pulled by Fordson Tractor. It is the opinion of this office that in order to get better cooperation from everyone, transportation should be provided for, to and from work. Also, if the Administration would publish the wage scales and definite information concerning insurance compensation, greater response will be received. It has been suggested that clothes and shoes be furnished for the working crew; that earlier hours, and finishing about noon be maintained; that earlier hour for breakfast be assigned; and that more food be supplied at noon for these men.

It has also been suggested that the foreman of each crew be Japanese instead of Caucasian due to language barrier. There would be a more complete understanding, and better cooperation would be received.



## F I S H C U L T U R E

### Daily Report

June 16, 1942

Mr. Marumoto went with Mr. Mathiesen and Mr. Rupkey to section 34 where Mr. Nieschmidt had stated a clay about 5 ft. to 6 ft. deep will be found. The only trouble encountered was that the main canal is going through that section in the fall of this year. Therefore, in order to rush this project, it will be necessary to find another location.

Mr. Marumoto went out in the afternoon with Mr. Edgar to the section where the main canal is to go through, and Mr. Zuroske drew the map of that section. In the meantime, soil chemists are analyzing the soil of that said section.

We sent out a requisition for materials.

June 17, 1942

Messrs. Ono, Miyoshi, Akiyama, and Sowa drew constructive plans for fish traps and floating pond to be used in this project.

Mr. Marumoto and Mr. Zuroske went out of Poston to see if a suggested locality was suitable for fish clay. Out of 36 acres, only 10 acres were suitable for a fish pond. Another 26 acres had nothing but sand dunes. Therefore, they decided to abandon that section and move to section 34, Northeast corner.

June 18, 1942

Mr. Miyoshi and Mr. Sowa drafted plans on the construction of water gates for our fish pond. Many good plans of various types were submitted and finally one plan was approved by Mr. Akiyama, our chairman. This plan, we believe, will prove to be very satisfactory when it is completed. Although we are progressing very rapidly on our various research plans in regards to fish culture, the location of a suitable site for the fish hatchery is retarding our progress.

An appointment was made with Mr. Rupkey to scout a portion of section 34. Reports are there seems to be a great deal of heavy clay in that section which is ideal for the foundation of our fish hatchery. If this proves to be true, we hope to be able to start in the near future.



June 19, 1942

Studied practical and economical ways to increase fish production.

Studied method of home mixed fertilizers and commercial fertilizers.

Conclusion: Fertilizers make microscopic plants, these plants attract insects which provide food for the fishes.

Received information regarding the growth of worms in the slue.

Investigation of this report proved that the worms were of the harmful type and therefore cannot be used as food for the fishes.



TO: W. C. Sharp

FROM: Poultry Department

DATE: June 20, 1942

SUBJECT: Weekly Report

1. Requisition for bill of material was submitted by the Poultry Department.

2. Roy Kobayashi, who is in charge of the location, has staked out the 80 acres for the poultry site. Topographical map is nearly completed.

3. Min Nitta, Bill, and Fred Kobayashi are working on the sketches of the plant and equipment.

4. Roy Kobayashi and his committee have finished a general survey of the land, and have staked it off.

5. A crew of poultry men are planning to start clearing the poultry site on Monday, June 23, 1942.

6. A poultry meeting was held on Saturday, June 30, 1942, 9:00 A.M., Recreation Hall 37.<sup>a</sup> Poultrymen O. K. all plans submitted for house and equipment landscape. Plan to start work Monday provided~~ing~~ equipment and truck arrive.

Respectfully Submitted,

Fred Kobayashi  
Chairman



SWINE PRODUCTION

Weekly Report

Monday & Tuesday:

Spent on requisition on bill of material.

Wednesday, Thursday, Friday, & Saturday:

1. Planning layout of Hog site.
2. Discussion on requisition with Mr. Nishi; ideas and suggestions were received from Mr. Sharp.
3. Sent letters for information.
4. Completion of detail plan for requisition.

Submitted by

Bill Kobayashi



June 15, 1942

WEEKLY REPORT

Mr. W. C. Sharp  
Chief of Agriculture

It was three weeks ago when I reported to Mr. Mizusawa at Recreation Hall #37. He assigned me to the Division of Ornamental Plants and instructed me to organize and beautify Poston! It was difficult to comprehend the scope of undertaking the vastness of the area which our organization has to subjugate and bring to its knees, and build Shangri-La or Utopia out of this primitive, deserted Dust Bowl. We have to be practical dreamers to approach and to comprehend the task which confronts us. We have to understand the new climatic conditions and adjust ourselves to the foreign environment. For a while I have tried to adapt myself to the conditions which prevail in this camp.

When I took office, Mr. Noguchi was already drafting the plan for the Recreation Area, and the Dust Control group was doing its part under the leadership of Mr. Sasano. Day in and day out they have been carrying on, not reluctantly but relentlessly. These pioneers have been living in the dust. They have been breathing the dust; they have been eating the dust. Their faces and bodies are coated with the composite of dust and sweat. They are ruining their health. Their eyes, their lungs are taking a terrific beating. Why? For what? For whom? Some complain that they are not well fed; insufficient food to carry on this type of work, especially for these growing youths. Daily they are exerting more energy than their organs can manufacture by consuming that limited, rationed food. Mr. Sasano reported to me today that the boys from Block 19 are coming to work with a meagre breakfast of coffee and one piece of toast! And we have been crying and begging for Respirators but it seems nothing has been done about it. I am not asking for the comfort of those boys but for the well-being of those youths. Am I asking too much if I beg you to remedy this situation?

At the administration and hospital areas, Mr. Yagura has been taking charge of landscaping and gardening. That crew of about thirty old men have been working without the aid of modern equipment. They have been leveling the most part of that area with pick, shovel, and wheelbarrow. Yet they have accomplished a great deal. Even the Bermuda grass is enjoying its new habitat.

After



After ~~days~~ of effort to adjust myself to this new duty, I settled down to organize the nursery division with the valuable assistance of Mr. Kuwahara. I have subdivided the Nursery Division into:

- A. Trees and Shrubs
  - 1. Seedlings
  - 2. Cuttings and slips
- B. Bedding
  - 1. Flowering plants
  - 2. Vegetable plants
- C. Floriculture
- D. Budding and grafting
- E. Guayule

The location of the lath house is the southwest corner of section 26.

Mr. Mitsunaga is in charge of the Nursery Division and four experienced men are assigned to each subdivision.

Mr. Kuwahara is to organize the guayule division and take charge of that division. About Dr. Emerson's visit, Mr. Kuwahara will report to you in detail.

Mr. Mathiesen has been kind and helpful enough to obtain the services of Mr. Sheppard and Mr. Flory from the Department of Indian Services and we have obtained incalculable information as to the climatic condition of Poston and trees and shrubs that are suited to this section of Arizona. They have furnished us with the list of names of those trees and shrubs.

Last week Mr. Liefgreen from Phoenix assisted us in selecting the seeds of flowering plants. Those seeds are for the nursery division and the Blocks.

For the purpose of landscaping and gardening, I have divided the landscapers and gardeners into three groups:

- 1. Recreation Area and Firebreaks
- 2. Administration and Hospital Areas
- 3. Blocks

Two to three men with years of experience have been assigned to each group. From the blocks I have asked the Block Managers to appoint one gardener from each block and he is responsible for the landscaping and gardening of his own block. This I thought was the simpler and more practical way to come in contact, and exchange our opinions as to the beautifying of each block. Furthermore, I like to arouse competitive spirit among the blocks in beautifying the blocks. I wanted variation rather than uniformity of landscaping within this camp. Moreover, it is the simplest and easiest way to reach the goal



and the quickest means to finish our job.

There has been slight friction between Mr. Evans and me as to the status of block gardeners. He maintains that their job should be temporary and I want it permanent, and also they should have one assistant. Through them I would get volunteers for transporting and transplanting the Bermuda grass sods. Through them I would distribute the seeds of flowering plants, vegetable plants, and cuttings and slips of trees and shrubs. They are not only the advisors, but they have to landscape the service court around Recreation Hall, and the Dining Hall. No doubt, they would have to take care of the space between the buildings. Mr. Evans claims that their work be done within one or two weeks. To me it sounds very ridiculous. Here I am not going to elaborate the tasks and duties which confront them.

Our division is organized and ready to function as soon as our requisition is accepted and tools and materials arrive.

Yet there will always be need of your advice and guidance.

Harry M. Kikuchi  
Division of Ornamental Plants



June 20, 1942

TO: Mr. W. C. Sharp  
FROM: James Katayama  
Division of Seed  
Subject: Weekly Report

After three weeks we have made the following progress:

1. At the present time, we have three members in the division.
2. The work is divided into Field Seeds, Garden Seeds, and Flower Seeds. In regard to the flower seeds, we work in conjunction with the Ornamental Plants Division.
3. Both the Ornamental Plants Division and the Seed Division will work in close harmony as warehouses will be occupied jointly by both groups.
4. We have completed and submitted requisition for the seed need for 2,000 acres. (We have over forty different varieties of vegetables in mind.)
5. We have drawn up plans for a warehouse and presented requisition for same. (The site has been selected.)
6. Made field trips with Mr. E. A. Nieschmidt to see and study soil conditions. (The terrain is similar to that in which have worked privately as seedsmen.)
7. We have assisted the guayule division in securing their materials for work.
8. Insecticide requirements and mechanical appliances to apply the materials have also been ordered.



-2-

Mr. W. C. Sharp

9. The Field Seed Division is under the supervision of Joe Yoshimura.

- A. Computed the required acreage and the necessary field crops for the feeding of animal and dairy stocks and also the poultry.
- B. Requisitioned the necessary field seeds for Poston.
- C. Studied and planned for an experimental seed farm.
- D. Made plans for a seed warehouse.
- E. Made numerous field trips to ascertain a knowledge of the soil, irrigation system, and other conditions and requirements for good growing management of field crops.

10. Fertilizer requirements have also been studied with regard to the soil conditions of Arizona.

11. In conjunction with the dust control group, it was suggested that vegetables be planted in the spaces between the barracks. So a requisition was drawn up in which types of vegetables suitable to the season was ordered.

12. We have also conducted a survey of the amounts of seeds in the possession of individuals with a view of gathering the same. But at the present time in order to reduce the costs, we are encouraging, when the water supply becomes available, the planting of their own seeds as much as possible.



REPORT OF THE SOILS COMMITTEE

June 20, 1942

To the Chief of Agriculture:

The soils committee has been functioning for the past four weeks. Four weeks ago Mr. Nieschmidt and Mr. Zuroske arrived at Poston to promulgate soil investigation plans. There has been a reconnaissance survey made of the reservation in 1940. From this it was possible to segregate out at least the large areas which would not be desirable for irrigation agriculture. However, considering the intensity with which this land is to be used, it is necessary to make a very detailed survey of the land to be irrigated. Such a survey reveals the size and frequency of drainages, the vegetation, the texture of the surface soil, fences, etc. A physical survey of the soil profile is also necessary. This survey reveals the areas of problematic heavy clay accumulations in the sub-surface horizons. Also areas which have only a shallow or no accumulation of heavy textured soil materials above the river-wash sand. The third major phase of the soil survey is the soil chemistry. Of immediate major significance is the determination of the salt concentration. Other important chemical determinations are pH, nitrate, organic matter, phosphate, potash, calcium, etc.

The work that was started four weeks ago and is being continued is the physical survey of the soil profiles. The chemical determinations are being held up in want of laboratory space and adequate equipment. A requisition was made for workers who had soils training. None of that category were found in the camp. However, several boys having had training in associated fields as chemistry, geology, and botany offered to help. There were some very good boys among them which were readily convertible for soils work. Most of the work is hard. It constitutes primarily of digging pits in order to facilitate profile observations and sample collection. Sometimes it is necessary to use a pick to break loose the heavy textured materials through horizons as deep as four feet. It is also necessary to cut boundary lines through the dense mesquite. This requires considerable axe work as well as lifting and pushing the trees out of the way. In order to cut the boundary lines it became necessary to acquire the assistance of an engineer. The equipment was obtained from the Parker agency. A very competent engineer was obtained from the Japanese population. Although the work was difficult, all of the boys have given excellent cooperation. Not one has failed to give full support. They have worked both morning and afternoon. However, it is evident that they are inadequately nourished to maintain such activity. Until such



a condition is alleviated, the pace will have to be adjusted in order to stay within the nutritional limitations. It would be desirable to have a few extra boys which we can readily obtain in order to provide intermittent rest periods. However, we do not have transportation facilities enough to accomodate the boys that we now have. After making formal request we have been waiting two weeks for transportation. For one and one-half days transportation was provided. It seems, though, that since we are constantly out in the field we cannot do sufficient lobbying to retain such conveniences. At any rate the availability of a truck ceased to exist. Of course there is a shortage of trucks. However, other committees that have come into existence and operation subsequent to soil investigation have been able to obtain one or more trucks permanently. Needless to say that we have also waited even a longer period of time for laboratory space and laboratory supplies. Due to such limitation the soil investigation has continued at a much slower pace than the information is being demanded. Moreover, it will have to be further curtailed so long as soil investigations are being subordinated to ordinarily secondary enterprises.

The soils committee has been called upon by most all of the agricultural enterprises for information. Among the first conference was that of the farm management planners who were considering the machinery needed to prepare the land for farming. The chief problem was that of deep tillage implements to break up the heavy clay accumulations in the subsurface horizons. The poultry committee asked for information regarding a suitable site which would be a bit sandy. The fish committee were desirous of a location in which deep accumulations of heavy textured soils were present. The guayule committee were shown the guayule plots at Parker, and the most desirable type of soil was investigated. Other requests have been made in relation to desirable sites for vocational agricultural schools, truck garden sites, farm sites, silviculture sites and possibilities, and adobe soils. Many of the questions we cannot answer as yet. However, we are anxious to continue and expand. We feel that our major limitations are not of our committee, but rather to the inadequacy of working facilities. Our means of procurement up to yet have been by mere request, but it must be remembered that an energetic group are active mentally also and means may be used that will demand attention desirable or otherwise.

We hope that this will serve as a report to bring the activities of our committee up to date, to call to mind our aged wants, and to accentuate our cause.

Soils



## TRUCK CROPS--REPORT

The Agronomy Department has been functioning as a Truck Crops Department, in all things concerning truck crops from soil investigation to reports in methods of planting and raising vegetables in different districts. The full coverage of all types of vegetable is far from complete.

The advisory committee is composed of nine members representing the arid farming regions namely Phoenix, Imperial Valley, Coachella Valley, Blythe, and Delano. This committee is functioning in the capacity of truck crops advisory board by investigating the land through field trips and general discussion both round table and field discussions. We have been out investigating section 34 where the clearing have been going on for quite some-time, both with Mr. Neeschmidt, the U.S. Soil Scientist and Mr. Sharp of the Parker Relocation Area Agriculture Department.

The immediate recommendation of the committee, whose aggregate years of experience in raising vegetables in arid climate totals over 200 years, is to raise vegetables primarily for local consumption in the fire-breaks and between the houses in section 35. Since the fire-breaks alone furnishes about 60 acres it will alleviate the shortage of fresh vegetables to which we are accustomed, such as nappa, daikon, radish, cucumber, etc. Since the fire-breaks do not need as much touching as the section where the subjugation crew is now busy clearing and since the water for irrigation is much earlier available in section 35,



the above recommendation is made by the committee. The taking care of the vegetables in the fire-breaks is to be done by farmers who are "old hands" in desert farming which we are fortunate in having quite a number. This project is very urgent to have it going as soon as possible because we can harvest certain vegetables as early as 3 weeks; but when planted later in the fall or early winter here, it takes almost twice as much time for development and harvesting.

The Truck Crops Department Committee:

Y. Yano  
S. Okuma  
K. Morita  
K. Kamio  
H. Sakai  
T. Jo  
S. Ishikawa  
Mizutani  
T. Sakai  
H. Suzuki

QUESTIONS:

In what capacity are we functioning? *Planning - justify our plan*

There is another group headed by Frank Fukuda and Mr. Niiseki with work which is similar to what we are doing.

Would you tell us what distinguishes the Fukuda-Niiseki group from ours?



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COLORADO RIVER WAR RELOCATION AUTHORITY

DEPARTMENT OF AGRICULTURE

H. A. Mathiesen  
Chief of Agriculture

Deep



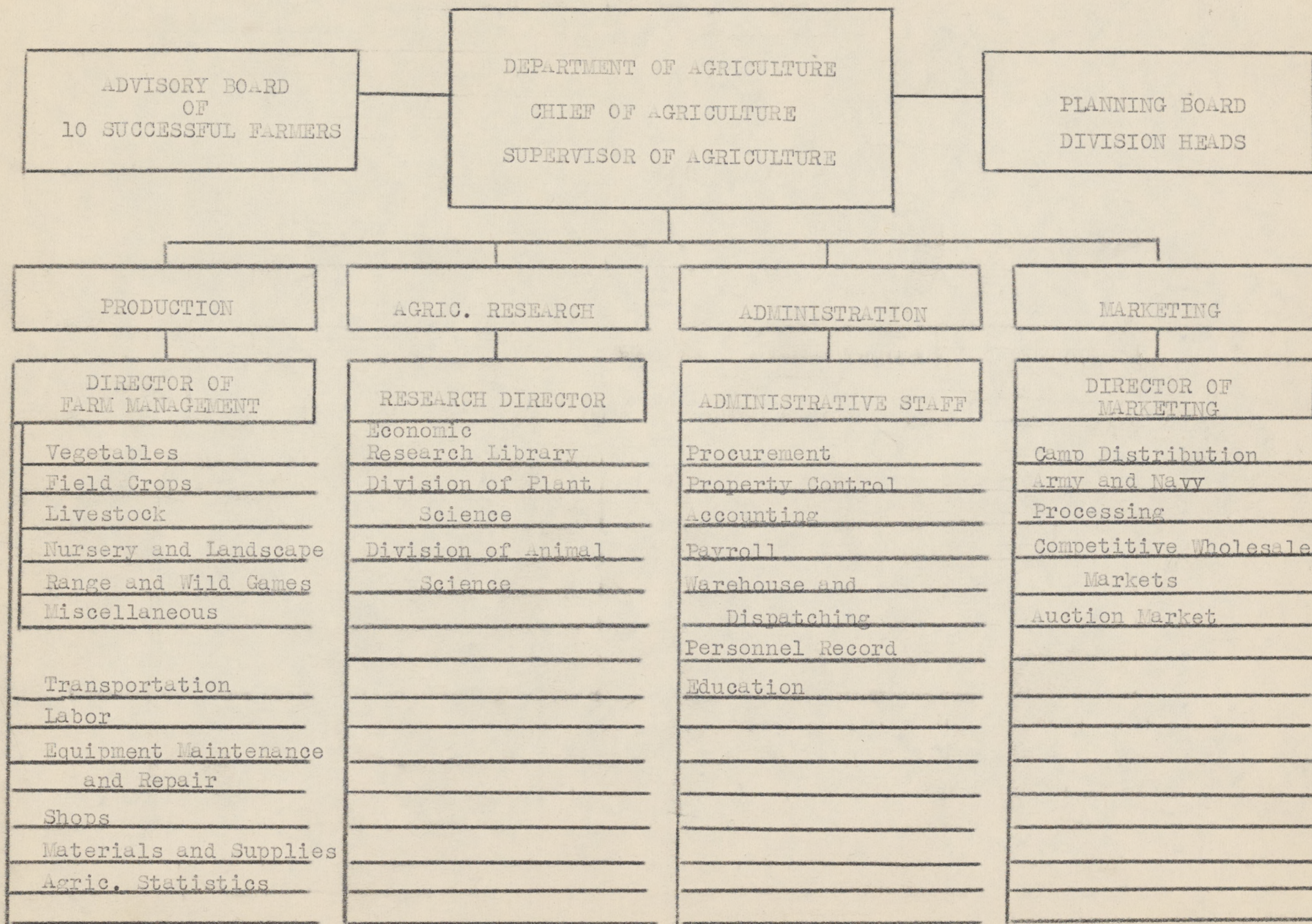
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	D. Property Control	
	E. Warehousing and Dispatching	
	F. Personnel Record	
	G. Education	
V.	Marketing - - - - -	7
	A. Camp Distribution	
	B. Army and Navy	
	C. Processing	
	D. Others	



VI.	Typical Duties and Knowledge of Director of Farm Management - Production- - -	8
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VIII.	Typical Duties of Farm Manager - Field Crops - - - - -	11
IX.	Typical Duties and Knowledge of Farm Manager - Apiary - - - - -	13
X.	Typical Duties of Farm Manager - Livestock - - - - -	16





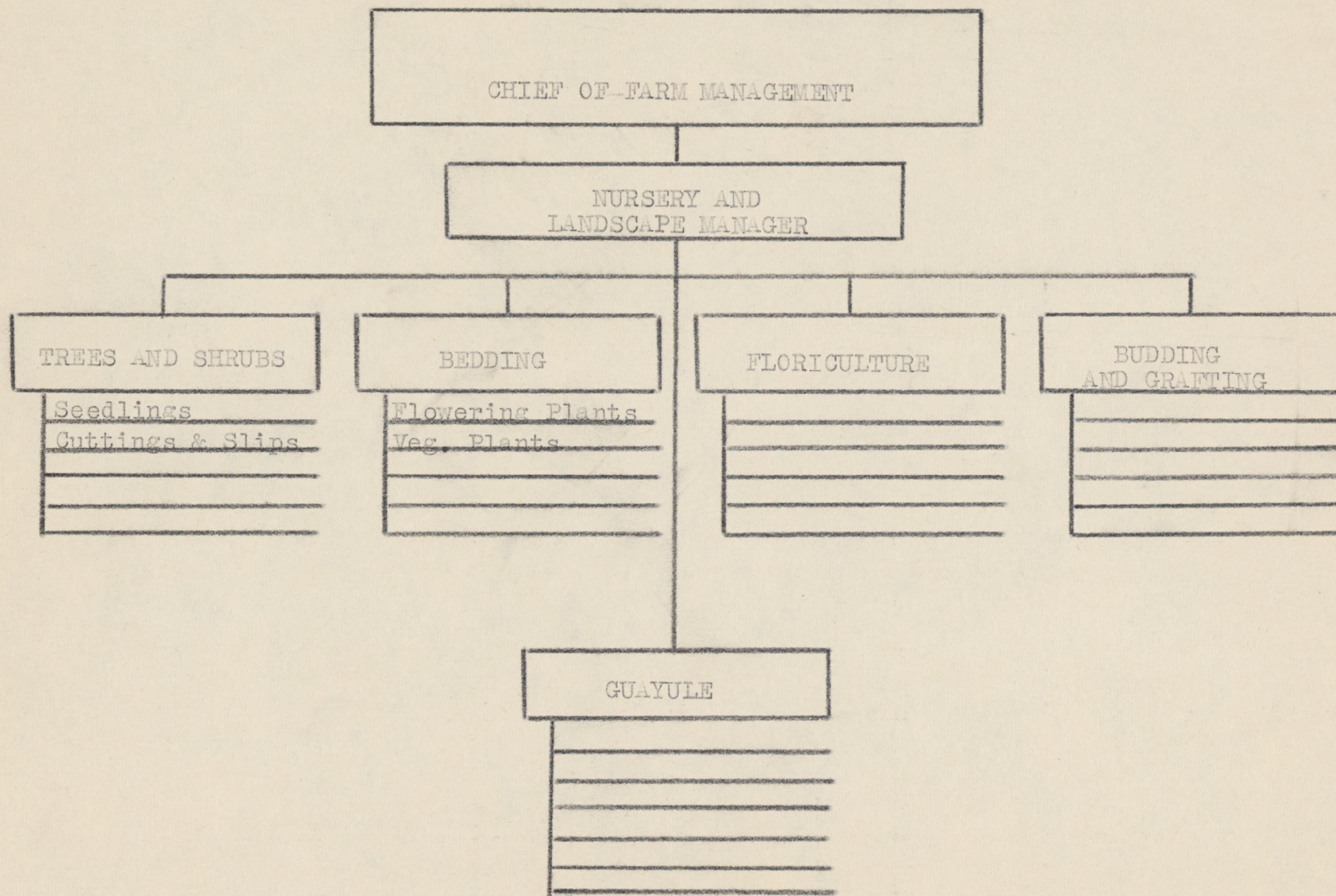


PRODUCTION

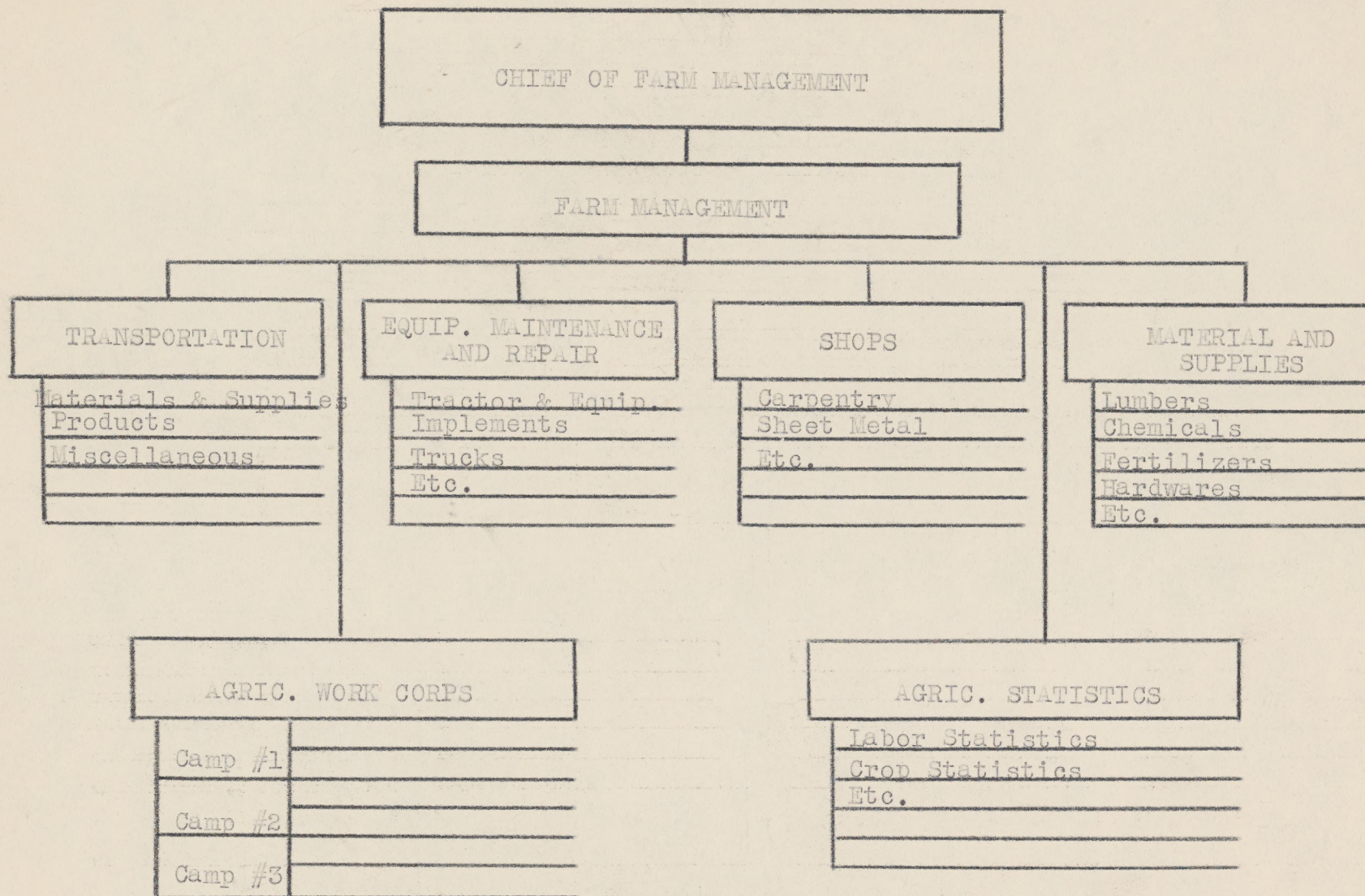
CHIEF OF FARM MANAGEMENT

VEGETABLES	FIELD CROPS	LIVESTOCKS	RANGE-WILD GAME	MISC.
1. Camp Consumption	1. Hay & Hay Grain	1. Poultry	1. Range Management	1. Apiary-Beehive
2. Vegetable Forcing	2. Root Crops	2. Hog	2. Wild Game	2. Rodent & Pest Control
3. Truck Farm	3. Grain & Corn	3. Dairy		
Processing		4. Beef		
Seed Growing		5. Fish		

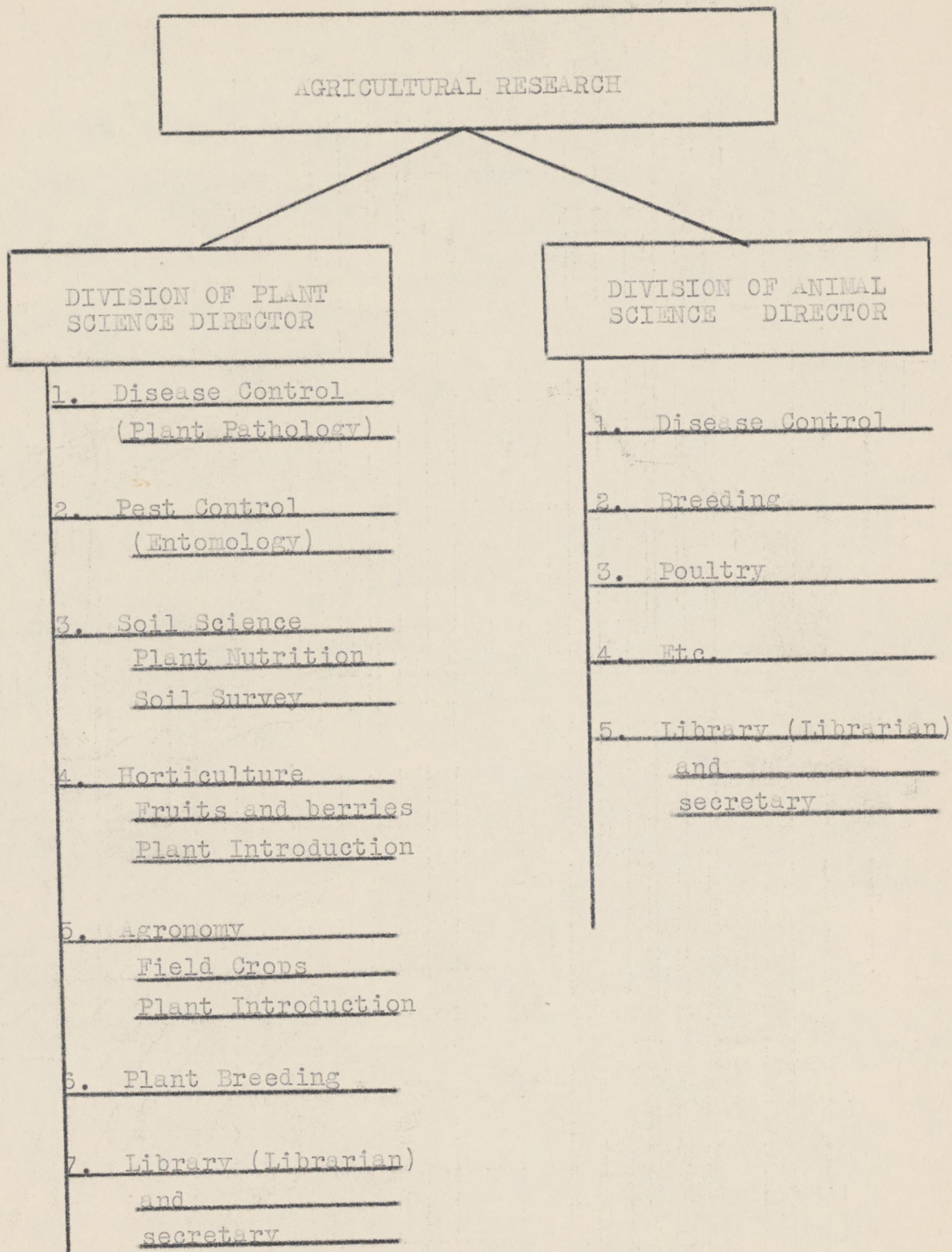




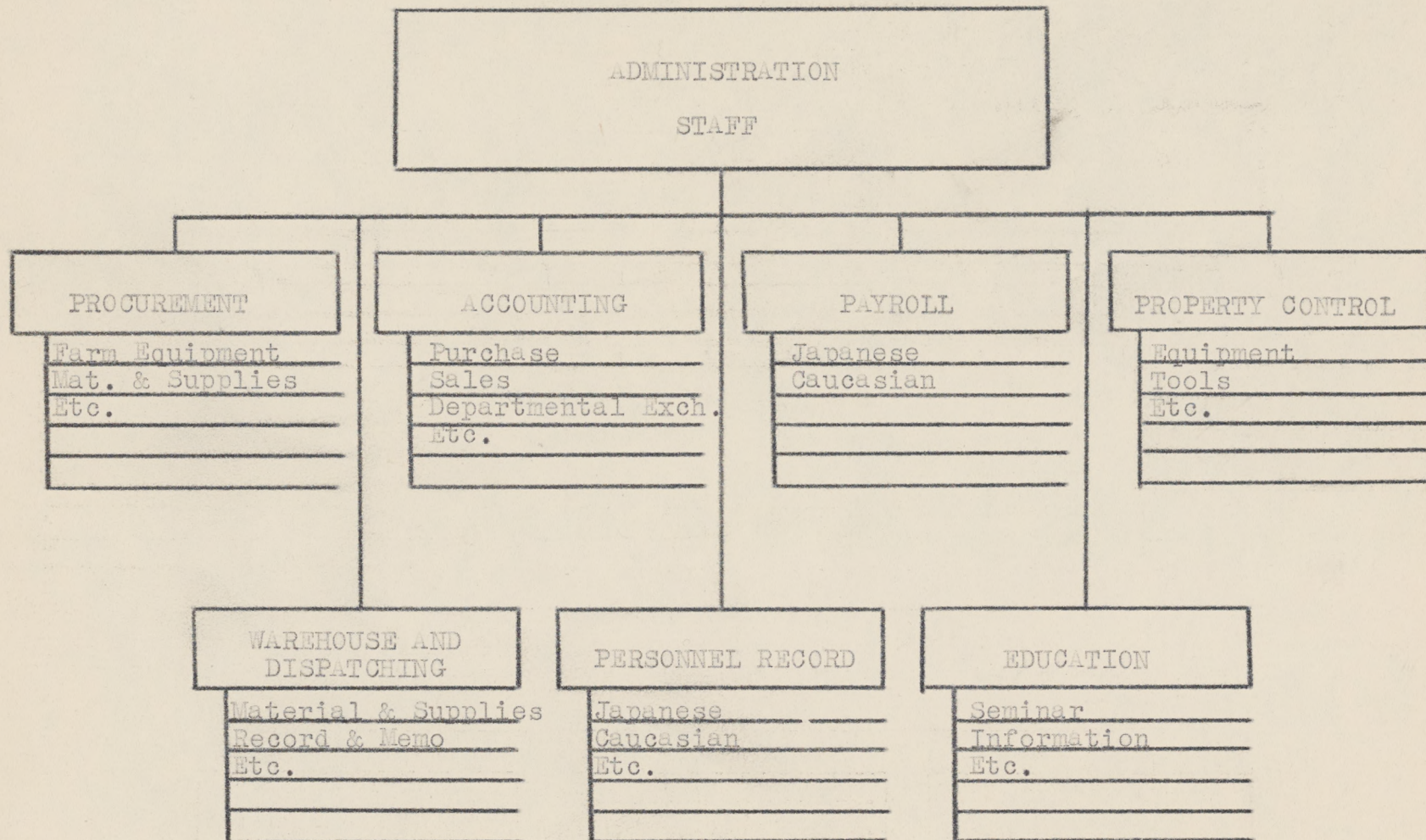




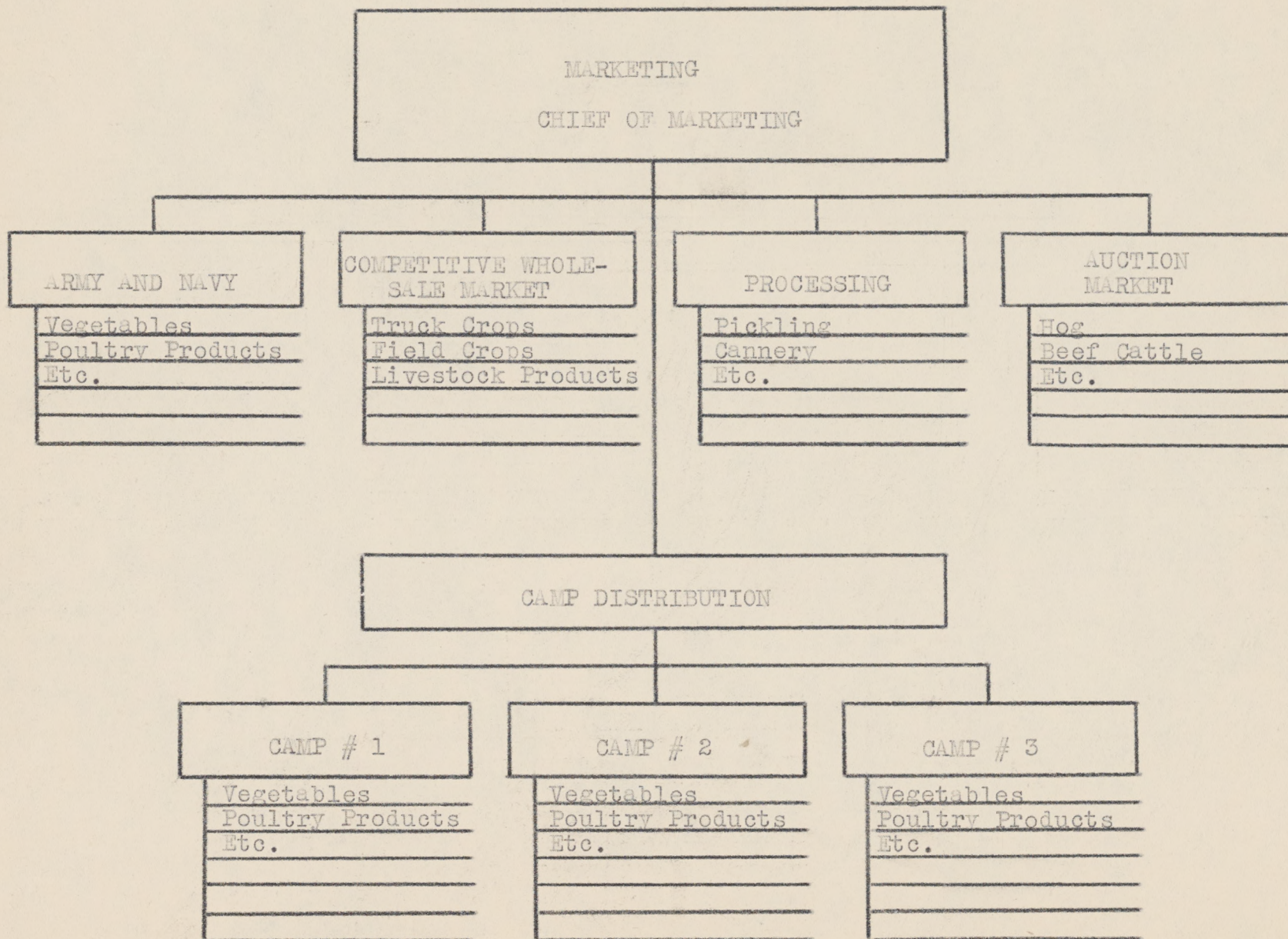














DIRECTOR OF FARM MANAGEMENT

PRODUCTION

Typical Duties and Knowledge:

1. Agricultural Project Management
2. Knowledge of Plant and Animal Science
3. Labor Supply and Management
4. Tractor and Equipment Supply and Management
5. Transportation and Communication
6. Compilation of Statistical Data and Reports of Project
7. Crop rotation and Soil Conservation
8. Dissemination of information and W. R. A. Instruction
9. Proper Distribution of Materials and Supplies



## FARM MANAGER

### Truck Crops

#### Typical Duties

- A. Proper Preparation of Soils
  - 1. Operation - number and kind of crops
  - 2. Time of performing work (Imperial Valley or Salt River Valley system)
  - 3. Kind of equipment to be used
- B. Proper Seeding
  - 1. Kind of Seed - variety, quality, cleanliness, quantity
  - 2. Rate of Seeding
  - 3. Time of planting
  - 4. Method of seeding - drilling or broadcasting
  - 5. Spacing between rows, spacing rows
- C. Transplanting
  - 1. When
  - 2. Distance between plants, size of plants and amount of watering to be done at time of transplanting
  - 3. Above as to each respective plants--- cabbage, celery, eggplants, tomatoes, etc.
- D. Care of Growing Crop
  - 1. Cultivation - number, kinds, and time
  - 2. Control of plant pest: by spraying or dusting; including what is to be used, when it is to be used, amount to be used, and method of applying
  - 3. Control of Weeds
  - 4. Irrigation - number of times, times of applying, amounts to be applied, and method of applying, including constructing of basins or furrows, making arrangements with Irrigation man
  - 5. Thinning - time distance, methods and cultural details
- E. Harvesting
  - 1. Time and Method
- F. Disposition of by-products - vegetable tops and leaves
- G. Making Proper Drainage



- H. Removal and disposal of crop residues, such as vegetable leaves not usable
- I. Use of Fertilizers, soil correctives, and manure to improve soil conditions; Using and Raising Green Manure Crops
- J. Practice of rotation
  - 1. Crops to be used
  - 2. Sequence in Rotation
- K. Replanting Depleted stands of transplanted truck crops, etc.
- L. Keep records - diaries and memorandum of operation and happenings
- M. Proper supervision of workers, kindness of treatment but firmness in order



## FARM MANAGER

### Field Crop

#### Typical Duties

- A. Proper Preparation of Soil
  - 1. Operation - number and kinds of crop
  - 2. Time of performing work
  - 3. Kind of equipment to be used
- B. Proper Seeding
  - 1. Kind of seed - variety, quality, cleanliness, quantity
  - 2. Rate of seeding
  - 3. Time of planting
  - 4. Method of seeding - including broadcasting, drilling
  - 5. Spacing between rows, spacing in rows
- C. Transplanting
  - 1. When
  - 2. Distance between plants, size of plants and amount of watering to be done at time of transplanting
- D. Care of Growing Crop
  - 1. Cultivation - numbers, kinds and times
  - 2. Control of plant pests by spraying or dusting, including what is to be used, when it is to be used, amount to be used, and method of applying
  - 3. Control of weeds
  - 4. Irrigating - number of times, times of applying, amounts to be applied, and method of applying, including constructing of basins or furrows
  - 5. Thinning - time, distance, methods and other cultural details
- E. Harvesting
  - 1. Time and method
- F. Disposition of by-products, such as straw, stubble, and tops



- G. Regulation of pasturing, especially when lands are wet
- H. Removal and disposal of crop residues, such as corn stubble or cotton stalk, at end of cropping season
- I. Use of fertilizers, soil correctives, and manures to improve soil conditions
- J. Practices of rotation
  - 1. Crops to be used
  - 2. Sequence in rotation
- K. Replanting depleted stands of alfalfa or other perennial crops
- L. Keep record and memorandum and diaries
- M. Proper treatment of washers regarding types of work - kindness, no favoritism, etc.



## FARM MANAGER

### Apiary

#### Typical Duties and Knowledge

1. Amount of Investment necessary
2. Selecting a location
  - (a) Distance between apiaries
  - (b) Arrangement of apiary
3. Nector and pollen plants of Arizona especially in Poston
4. Life history and habits of the honeybee
  - (a) The queen
  - (b) The drone
  - (c) The worker
  - (d) Food Requirements
  - (e) Colony nest and its arrangement
5. The cycle of the year
6. Races of bees
  - (a) The "best" race
7. Equipment needed
  - (a) Smoker
  - (b) Hive tool
  - (c) Bee suit
  - (d) Comb foundation
  - (e) Misc. equipment
8. Assembling the equipment
  - (a) Nailing the frame
  - (b) Embedding the wire
9. The manipulation of the hive
10. Installation and care of package bees
  - (a) Best time to receive package bees
  - (b) Pollen essential for package bees
  - (c) Methods of installation
  - (d) Adding package bee to weak colonies
11. Seasonal manipulations
  - (a) Condition of the colony in the fall
  - (b) Spring management
  - (c) Swarm preventive and increase



- (d) Superring
  - (e) Removal of the honeycrop
  - (f) Process of extracting
  - (g) Cleaning the combs
  - (h) Production of beeswax
  - (i) Care of the capping
12. The Honey house
13. Work in the fall and winter
14. Apiary Records and memorandum
15. Miscellaneous Manipulation
- (a) Moving bees
  - (b) Uniting Colonies
  - (c) Transferring bees from trees and walls
16. Queens and their care
- (a) Finding the queen
  - (b) Handling the queen
  - (c) Introducing the queen
17. Queen Rearing
- (a) Rearing queens in artificial cell and cups
  - (b) The cell building colony
18. Feeding bees
- (a) Sugar syrup
  - (b) Method and time of feeding
  - (c) Pollen substitutes
19. Control of Diseases of bees
- (a) American foulbrood
  - (b) European foulbrood
  - (c) Para-Foulbrood
  - (d) Sacbrood
  - (e) Chilled or Starved brood
  - (f) Poisoned brood
  - (g) Dead drone brood in worker cells
  - (h) Nosema diseases
  - (i) Paralysis
  - (j) Chemical poisoning
  - (k) Plant poisoning
20. Control of enemies of bees
- (a) The wax moth
  - (b) Other insects attacking comb
  - (c) Mice
  - (d) Skunks
  - (e) Misc. pests
21. Apiary Inspection



22. Some facts about honey
- (a) To determine the weight and moisture content of honey
  - (b) Effect of heat on honey
  - (c) Causes of fermentation in honey and preventing fermentation
  - (d) Change in Color of honey in storage
23. Numbers to be kept
- (a) Kinds and Freedom from disease
  - (b) Location or site for beehives



## FARM MANAGER

### Livestock

#### Typical Duties

- A. Number to be kept
  - 1. Kinds and freedom from disease
- B. Feeding
  - 1. Kinds
  - 2. Amounts
  - 3. Methods
  - 4. Regularity
- C. Breeding
  - 1. Minimum age
  - 2. Time
  - 3. Designated sires
  - 4. Care prior to and at birth
- D. Raising
  - 1. Numbers
  - 2. Kinds
  - 3. Type
- E. Sheltering
  - 1. When
  - 2. How
- F. Watering
  - 1. Ample and constant supply at convenient places
- G. Salting
  - 1. Ample and constant supply at accessible places
- H. Treating sick or hurt animals
  - 1. Segregating those showing signs of disease
  - 2. Employing veterinary as and when needed
- I. Controlling diseases and pests



- J. Practicing continual cleanliness and sanitation
  - 1. Including whitewashing, screening, removal of cobwebs, manure, and other accumulations
  - 2. Keeping the water trough clean
- K. Handling animals gently and with patience
- L. Keeping fences, buildings, chutes, milk houses, feed houses, poultry houses, watering devices, silos (especially when empty) and other improvements in good repair and condition
- M. Keeping cattle equipment in good condition and repair; keeping poultry and hog equipment in good condition and repair
- N. Castrating, spraying, etc.
  - 1. Time and method
- O. Caring for products pending delivery and sale
- P. Disposing of and replacing animals or fowls lost by disease, or accident, or discarded because of old age or because of no further usefulness
- Q. Prohibiting the bringing of woody hay to the farm
- R. Preserving and disposing of manure
- S. Complying by War Relocation Authority regulations
- T. Pasturing land
  - 1. When and to what extent



- U. Branding and marking of additions or increasing those that are of common property and registering brands
- V. Killing coyotes, squirrels, rats, and other pests
- W. Keeping records and memorandum needed to show the status of the business or to register animals
- X. Proper treatment of workers



Camp #2  
 Block Vegetable s Garden Division  
 (Products Produced)

DATE SEPTEMBER 1943	BLOCK NO.	NAPPA	URI	EGG PLANT	GOBO	CUCUMBER	SQUASH	OKRA	BELL PEPPER
1	208		120#						
1	222		100#	40#					
1	207		20#		40#				
3	207		20#						
1	208		160#						
1	208			60#	25#				
2	219		80#						
3	208		160#						
4	207		60#						
4	221		35#	100#					
6	208		160#						
6	213			115#		88#			
4	209		100#	60#					
5	229		100#	20#					
4	216			40#			35#		
7	208		100#						
7	222		160#			55#			
10	222		82#		20#	156#			
10	220		260#	80#	20#				
10	214		160#						
10	209		100#	30#				20#	
10	220		260#	80#	20#				
11	221		60#	40#					
13	208		140#	40#					
12	216		60#	60#			40#		
13	207	40#	60#	20#					
13	213					42#			
14	222		72#	130#					
18	222		80#			100#			
20	209		90#	30#					
22	216		75#						
22	221		40#						
22	213					80#			
23	229			120#					
23	227	80#	80#						
23	226		50#			25#			
25	208		120#						
25	207	180#	80#						
27	216		180#	75#			60#		15#
27	213		100#						
		300#	3524#	1140#	125#	546#	135#	20#	15#



BLOCK REPORT ON VEGETABLES  
SUMMARY OF  
VEGETABLES GROWN FROM SEPTEMBER 1, TO SEPTEMBER 30, 1943

BLOCK	URI	NAPPA	EGGPLANT	GOBO	CUCUMBER	SQUASH	OKRA	BELL PEPPER
207	240#	220#	20#	40#				
208	960#		100#	25#				
209	290#		120#				20#	
211								
213	100#		115#		210#			
214	160#							
215								
216	315#		175#			135#		15#
219	80#							
220	520#		160#	40#				
221	135#		140#					
222	494#		170#	20#	311#			
226	50#				25#			
227	80#	80#						
229	100#		140#					
<hr/>								
	3524#	300#	1140#	125#	546#	135#	20#	15#



(To be filed 1st of each month  
unless otherwise requested.)

AGRICULTURE  
Period from September 1 to Sept. 30 194

PROJECT Block Vegetable Garden

I. PLANTING AND CROP CONDITION REPORT:

Plantings						
*Crop	Total Acreage to be Planted	Planted this Period (acres)	Total To Date (acres)	Condition of crop	Estimated Production (in pounds)	Estimated Harvesting Dates From To
Cole						
Eggplant			0.1	Poor (Mildew)	400	October
Carrots		0.5	1.5	Fair	2500	Oct. - Dec.
Turnip			2.08	Fair	3000	October
Corn			1.02	Fair	500	October
Pepper			.5	Poor	200	October
Beans, Green	2	1.0	3.0	Fair	5000	Nov. - Dec.
Beans	2	1.0	2.4	Fair	5000	Nov. - Dec.

\*List all crops for which planting has started and harvesting has not been completed.

Total man days devoted to crop enterprises this period 652.5 Man Day  
Total man days devoted to livestock and poultry enterprises this period \_\_\_\_\_

II. LAND DEVELOPMENT

Type of Development	Acres Developed This Period	Total Number Man Days This Period	Acres Developed To Date	Anticipated Development Next Period
Chiseling	2.5 Acres	8.3 Man Days		



### III. HARVEST AND DISPOSITION OF AGRICULTURAL PRODUCTS:

Crop*	Acres Harvested	Production* (In Pounds)	Disposition of Produce (In Pounds)				
			Used At Center	Shipped To Other Centers	Sold	Stored	Storage Inventory*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Gobo	0.4	125	125				
Eggplant	0.2	1140	1140				
Uri		3524	3524				
Gnamber	546	546	546				
Squash		135	135				
Gera	1.0	20	20				
Papper	0.5	15	15				
Nappa	0.1	300	300				

\*During harvest, entries in Col. 3 should equal sum of Col. 4, 5, 6, and 7.

\*\*Give storage inventory figure as at end of period reported. In periods when products move out of storage, the sum of entries in Col. 4, 5, and 6 should equal the reduction in storage inventory (Col. 8) as between last report and this report.

### IV. LIVESTOCK:

HOGS: Litters farrowed (number) \_\_\_\_\_ Pigs Saved \_\_\_\_\_ Hogs died \_\_\_\_\_  
 Purchases (number) Feeders \_\_\_\_\_ Brood Sows \_\_\_\_\_ Others (No. & kind) \_\_\_\_\_  
 Hogs slaughtered \_\_\_\_\_ Average live weight (lbs.) \_\_\_\_\_ Hogs on feed \_\_\_\_\_

#### POULTRY:

Purchases: Chicks \_\_\_\_\_ Pullets \_\_\_\_\_ Other (Number & kind) \_\_\_\_\_  
 Laying hens \_\_\_\_\_ Poultry, dressed (lbs.) \_\_\_\_\_ Egg Production (doz.) \_\_\_\_\_

#### DAIRY:

Cows on hand \_\_\_\_\_ Purchased \_\_\_\_\_ No. Milking \_\_\_\_\_ Production, lbs. \_\_\_\_\_

#### OTHER LIVESTOCK:

Kind	Number	Number	Slaughtered		Other
	On Hand	Purchased	Number	Lbs.	Disposition

V. GENERAL COMMENT: (Please attach additional sheet for comment on agricultural program.)



adg.  
October 21, 1943

MEMORANDUM TO: Block Gardener Supervisor

FROM: Agriculture Department #2

SUBJECT: Monthly Production Report

Our monthly production report must be ready to be sent to the main Agriculture office not later than the second of the following month; therefore, we would like to have all Block Gardener's production receipts at the end of the month in which the vegetables are produced.

We would also like to have, at the same time, the total man days devoted to Block Garden work for the month.

Your co-operation in the matter would be greatly appreciated.

*Jitsuzo Fukuhara*  
Jitsuzo Fukuhara  
Supervisor of Agriculture  
Agriculture Department #2

10-30-43



Camp #2  
Block Vegetables Garden Division  
(Products Produced)

DATE	BLK.	DAIKON	RADISH	NAPPA	URI	EGG PLANT	GOBO	CUCUMBER	SQUASH	OKRA	BELL PEPPER	GREEN ONION
OCTOBER	NO.											
1943												
1	216			50#	240#	50#			35#			
1	219				200#							
2	216			130#								
1	229				60#		30#					
1	222				80#			160#				
1	207			50#	40#							
1	229				140#							
1	214				80#							
1	208				200#							
4	216					45#			50#			
2	222				80#			200#				
4	222				80#			100#				
5	222					60#	40#					
2	219				40#	60#						
1	227				40#							
5	216			50#								
1	209				100#	35#				15#		
2	214							200#				
6	222				40#			100#				
6	227				80#							
6	229			240#	80#							
7	216			75#	20#		20#				15#	
7	213					80#		40#				
7	208	90#										
7	214				80#						20#	
7	227											30#
8	221				60#				20#			
9	216				140#				30#			
4	222				40#			100#				
11	222				60#		30#	160#				
12	209				95#	30#				15#		
12	221				40#	20#						
12	229				100#							
12	226			50#								
13	216			150#		40#						
13	227				60#							
13	213		10#		80#							
14	229			60#								
15	208	20#			60#							
16	227				60#	60#						
18	216				150#	40#			20#			
19	221				60#							
20	208				100#	40#						
20	213							120#				
22	216		20#		100#				30#			
22	227				60#							20#
23	229											20#
		110#	30#	855#	2945#	560#	120#	1180#	185#	30#	35#	70#



Summary of  
VEGETABLES GROWN FROM OCTOBER 1, 1943 TO OCTOBER 31, 1943

BLK.	DAIKON	RADISH	NAPPA	URI	EGG PLANT	GOBO	CUCUMBER	SQUASH	OKRA	BELL PEPPER	GREEN ONION
207			50#	40#							
208	110#			360#	40#						
209				195#	65#				30#		
211											
213		10#		80#	80#		160#				
214				160#			200#			20#	
215											
216		20#	455#	650#	175#	20#		145#		15#	
219				240#	60#						
220											
221				160#	20#			20#			
222				380#	60#	70#	820#				
226			50#								
227				300#	60#			20#			50#
229			300#	380#		30#					20#
<hr/>											
	110#	30#	855#	2945#	560#	120#	1180#	185#	30#	35#	70#



### III. HARVEST AND DISPOSITION OF AGRICULTURAL PRODUCTS:

Crop*	Acres Harvested	Production* (In Pounds)	Disposition of Produce (In Pounds)					
			Used At Center	Shipped To Other Centers	Sold	Stored	Storage Inventory*	
			(1)	(2)	(3)	(4)	(5)	(6)
Dalton		110	110					
Happa	.1	855	855					
Radish		30	30					
Uri		2945	2945					
Eggplant	.05	560	560					
Gobo		120	120					
Cucumber		1180	1180					
Squash		185	185					
Okra	1.02	30	30					
Pepper	.5	35	35					
Green Onion		70	70					

\*During harvest, entries in Col. 3 should equal sum of Col. 4, 5, 6, and 7.

\*\*Give storage inventory figure as at end of period reported. In periods when products move out of storage, the sum of entries in Col. 4, 5, and 6 should equal the reduction in storage inventory (Col. 8) as between last report and this report.

### IV. LIVESTOCK:

HOGS: Litters farrowed (number) \_\_\_\_\_ Pigs Saved \_\_\_\_\_ Hogs died \_\_\_\_\_  
 Purchases (number) Feeders \_\_\_\_\_ Brood Sows \_\_\_\_\_ Others (No. & kind) \_\_\_\_\_  
 Hogs slaughtered \_\_\_\_\_ Average live weight (lbs.) \_\_\_\_\_ Hogs on feed \_\_\_\_\_

#### POULTRY:

Purchases: Chicks \_\_\_\_\_ Pullets \_\_\_\_\_ Other (Number & kind) \_\_\_\_\_  
 Laying hens \_\_\_\_\_ Poultry, dressed (lbs.) \_\_\_\_\_ Egg Production (doz.) \_\_\_\_\_

#### DAIRY:

Cows on hand \_\_\_\_\_ Purchased \_\_\_\_\_ No. Milking \_\_\_\_\_ Production, lbs. \_\_\_\_\_

#### OTHER LIVESTOCK:

Kind	Number	Number	Slaughtered		Other
	On Hand	Purchased	Number	Lbs.	Disposition

V. GENERAL COMMENT: (Please attach additional sheet for comment on agricultural program.)



(To be filed 15 day of each month unless otherwise requested.)

AGRICULTURE  
Period from to 194  
October 1 October 31

PROJECT Block Vegetable Garden

I. PLANTING AND CROP CONDITION REPORT:

Plantings						
*Crop	Total Acreage to be Planted	Planted this Period (acres)	Total To Date (acres)	Condition of crop	Estimated Production (in pounds)	Estimated Harvesting Dates From To
<u>Pepper</u>	<u>1.4</u>	<u>.6</u>	<u>2.9</u>	<u>Fair</u>	<u>5500</u>	<u>Nov.-Jan.</u>
<u>Carrot</u>			<u>1.5</u>	<u>Poor(alkali)</u>	<u>2500</u>	<u>Nov.-Dec.</u>
<u>Daikon</u>	<u>1.5</u>	<u>.5</u>	<u>3.5</u>	<u>Fair</u>	<u>6000</u>	<u>Nov.-Jan.</u>
<u>Pepper</u>			<u>0</u>			
<u>Eggplant</u>			<u>0.05</u>	<u>Poor(mildew)</u>	<u>200</u>	<u>November</u>
<u>Turnip</u>			<u>2.09</u>	<u>Poor (alkali)</u>	<u>2000</u>	<u>November</u>
<u>Okra</u>			<u>0</u>			
<u>Spinach</u>	<u>.5</u>	<u>1.5</u>	<u>1.5</u>	<u>Fair</u>	<u>5000</u>	<u>December</u>

\*List all crops for which planting has started and harvesting has not been completed.

Total man days devoted to crop enterprises this period 553.5 Man Day  
Total man days devoted to livestock and poultry enterprises this period \_\_\_\_\_

II. LAND DEVELOPMENT

Type of Development	Acres Developed This Period	Total Number Man Days This Period	Acres Developed To Date	Anticipated Development Next Period
<u>Chiseling</u>	<u>2.6 Acres</u>	<u>2.87 Man Days</u>		



(To be filed last day of each month unless otherwise requested.)

AGRICULTURE  
Period from Nov. 1 to Nov. 30 1943

PROJECT Block Vegetable Garden

I. PLANTING AND CROP CONDITION REPORT:

Plantings						
*Crop	Total Acreage to be Planted	Planted this Period (acres)	Total To Date (acres)	Condition of crop	Estimated Production (in pounds)	Estimated Harvesting Dates From To
Nappa	1.4		2.5	Fair	5000	Dec. -Feb.
Carrot			1 $\frac{1}{2}$	Poor (Alkali)	2500	Dec. -Feb.
Daiikon	1.5		3	Fair	6000	Dec. -Feb.
Eggplant			0			
Turnip			2.09	Poor (Alkali)	2000	Dec. -Jan.
Spinach		.5	2	Fair	6500	Dec. -Jan.
Radish		.5	.5	Fair	600	Dec. -Jan.

\*List all crops for which planting has started and harvesting has not been completed.

Total man days devoted to crop enterprises this period 576  
Total man days devoted to livestock and poultry enterprises this period \_\_\_\_\_

II. LAND DEVELOPMENT

Type of Development	Acres Developed This Period	Total Number Man Days This Period	Acres Developed To Date	Anticipated Development Next Period
Chiseling	1 Acre	1 Man Day		



### III. HARVEST AND DISPOSITION OF AGRICULTURAL PRODUCTS:

Crop*	Acres Harvested	Production* (In Pounds)	Disposition of Produce (In Pounds)				
			Used At	Shipped To Other	Sold	Stored	Storage Inventory*
			Center	Centers			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Nappa	.4	1460					
Daikon	.5	560					
Eggplant-	.05	360					
Spinach		180					
Uri		390					
Gobo		90					
Cucumber		160					
Squash		35					
Pepper		35					
Green Onion		60					

\*During harvest, entries in Col. 3 should equal sum of Col. 4, 5, 6, and 7.

\*\*Give storage inventory figure as at end of period reported. In periods when products move out of storage, the sum of entries in Col. 4, 5, and 6 should equal the reduction in storage inventory (Col. 8) as between last report and this report.

### IV. LIVESTOCK:

HOGS: Litters farrowed (number) \_\_\_\_\_ Pigs Saved \_\_\_\_\_ Hogs died \_\_\_\_\_  
 Purchases (number) \_\_\_\_\_ Feeders \_\_\_\_\_ Brood Sows \_\_\_\_\_ Others (No. & kind) \_\_\_\_\_  
 Hogs slaughtered \_\_\_\_\_ Average live weight (lbs.) \_\_\_\_\_ Hogs on feed \_\_\_\_\_  
 POULTRY:  
 Purchases: Chicks \_\_\_\_\_ Pullots \_\_\_\_\_ Other (Number & kind) \_\_\_\_\_  
 Laying hens \_\_\_\_\_ Poultry, dressed (lbs.) \_\_\_\_\_ Egg Production (doz.) \_\_\_\_\_  
 DAIRY:  
 Cows on hand \_\_\_\_\_ Purchased \_\_\_\_\_ No. Milking \_\_\_\_\_ Production, lbs. \_\_\_\_\_  
 OTHER LIVESTOCK:

Kind	Number	Number	Slaughtered		Other Disposition
	On Hand	Purchased	Number	Lbs.	

V. GENERAL COMMENT: (Please attach additional sheet for comment on agricultural program.)



Summary of  
VEGETABLES GROWN FROM NOVEMBER 1, 1943 TO NOVEMBER 30, 1943

BLK.	DAIKON	NAPPA	URI	EGG PLANT	GOBO	CUCUMBER	SQUASH	SPINACH	BELL PEPPER	GREEN ONION
207										
208	850#	200#	100#	60#						
209										
211										
213	90#		40#	120#		20#				
214										
215										
216	40#		150#	120#	10#		35#		35#	
219										
220										
221	180#	160#		60#				30#		15#
222			100#			140#				
226										
227	260#							120#		15#
229	40#	200#			80#			30#		30#
	1460#	560#	390#	360#	90#	160#	35#	180#	35#	60#



Camp #2  
Block Vegetables Garden Division  
(Products Produced)

DATE NOVEMBER 1943	BLK. NO.	DAIKON	NAPPA	URI	EGG PLANT	GOBO	CUCUMBER	SQUASH	SPIN- ACH	BELL PEPPER	GREEN ONION
1	221	30#	120#								
1	216			100#	30#			15#			
1	208		160#								
1	222			100#			140#				
1	227	60#									
1	213			40#							
3	208	200#									
4	221				60#						
5	216			50#		10#		20#		15#	
8	208	300#	40#	100#	60#						
8	216				40#						
8	213	90#			120#		20#				
16	216				20#						
20	227	100#									15#
20	229					50#					30#
9	221	150#	40#								15#
12	229		80#			30#			30#		
20	221								30#		
24	216	40#			30#						
24	208	350#									
26	216									20#	
27	229	40#	120#								
25	227	100#							120#		
		1460#	560#	390#	360#	90#	160#	35#	180#	35#	60#



AGRICULTURE  
Period from Dec. 1 to Dec. 31 194

AGRICULTURE  
Period from Dec. 1 to Dec. 31 194

## I. PLANTING AND CROP CONDITION REPORT:

PROJECT Block Veg. Garden

Plantings						
*Crop	Total Acreage to be Planted	Planted this Period (acres)	Total To Date (acres)	Condition of crop	Estimated Production (in pounds)	Estimated Harvesting Dates From To
Nappa	1.4	0	2	Fair	4000	
Carrot		.5	2	Poor	3000	
Daikon	1.5	0	2.2	Fair	5000	
Turnip			2.09	Poor	2000	
Spinach		1½	3	Fair	7000	
Radish		.5	8	Fair	700	

\*List all crops for which planting has started and harvesting has not been completed.

Total man days devoted to crop enterprises this period 625  
Total man days devoted to livestock and poultry enterprises this period \_\_\_\_\_

Total man days devoted to livestock and poultry enterprises this period

## II. LAND DEVELOPMENT

Type of Development	Acres Developed This Period	Total Number Man Days This Period	Acres Developed To Date	Anticipated Development Next Period
None				

None

(WRA-123) Budget Bureau No. 13-R005-42 Approval expires 12-31-43  
(1147)



### III. HARVEST AND DISPOSITION OF AGRICULTURAL PRODUCTS:

Crop*	Acres Harvested	Production* (In Pounds)	Disposition of Produce (In Pounds)					
			Used At Center	Shipped To Other Centers	Sold	Stored	Storage Inventory	
			(1)	(2)	(3)	(4)	(5)	(6)
Mustard Green		200	200					
Radish	.2	260	260					
Green Onion		90	90					
Squash		20	20					
Eggplant		305	305					
Spinach	.5	745	745					
Nappa	.5	500	500					
Daikon	.8	1850	1850					
Pepper		40	40					
Gobo		360	360					

\*During harvest, entries in Col. 3 should equal sum of Col. 4, 5, 6, and 7.

\*\*Give storage inventory figure as at end of period reported. In periods when products move out of storage, the sum of entries in Col. 4, 5, and 6 should equal the reduction in storage inventory (Col. 8) as between last report and this report.

### IV. LIVESTOCK:

HOGS: Litters farrowed (number) \_\_\_\_\_ Pigs Saved \_\_\_\_\_ Hogs died \_\_\_\_\_  
 Purchases (number) Feeders \_\_\_\_\_ Brood Sows \_\_\_\_\_ Others (No. & kind) \_\_\_\_\_  
 Hogs slaughtered \_\_\_\_\_ Average live weight (lbs.) \_\_\_\_\_ Hogs on feed \_\_\_\_\_

#### POULTRY:

Purchases: Chicks \_\_\_\_\_ Pullets \_\_\_\_\_ Other (Number & kind) \_\_\_\_\_  
 Laying hens \_\_\_\_\_ Poultry, dressed (lbs.) \_\_\_\_\_ Egg Production (doz.) \_\_\_\_\_

#### DAIRY:

Cows on hand \_\_\_\_\_ Purchased \_\_\_\_\_ No. Milking \_\_\_\_\_ Production, lbs. \_\_\_\_\_

#### OTHER LIVESTOCK:

Kind	Number	Number	Slaughtered		Other
	On Hand	Purchased	Number	Lbs.	Disposition

V. GENERAL COMMENT: (Please attach additional sheet for comment on agricultural program.)



SUMMARY OF  
Vegetables Grown from December 1 to December 31, 1943

BLK. NO.	MUSTARD GREEN	RADISH	GREEN ONION	SQUASH	EGG- PLANT	SPINACH	NAPPA	DAIKON	BELL PEPPER	GOBO
207										
208					80#			10#		
209										
211										
213		120#			60#					
214								200#	40#	
215										
216					90#	65#	360#	1410#		
219										
220										
221					75#	60#				
222										340#
226										
227	200#	140#	70#	20#		460#	140#	230#		
229			20#							
	200#	260#	90#	20#	305#	745#	500#	1850#	40#	360#



CAMP #2  
Block Vegetables Garden Division  
(Products Produced)

DATE DECEMBER 1943	blk. NO.	MUSTARD GREEN	RADISH	GREEN ONION	SQUASH	EGG- PLANT	SPIN- ACH	NAPPA	DAIKON	BELL PEP. GOBO
1	227			20#	20#					
2.	221					75#	60#			
3.	216							80#		
1	214								200#	40#
1	208					20#			10#	
8	216						35#			
4	227		100#	20#			60#			
3	213		120#							
8	208					60#				
11	227			30#			200#		30#	
22	229			20#						
22	227	140#					80#	140#		
24	216						30#	200#	750#	
29	222									300#
31	216							80#	600#	
20	222									40#
28	216					90#			60#	
26	213					60#				
28	227	60#	40#				120#		200#	
7	227						60#			
22	208						60#			
14	227						40#			
17	216									20#
		200#	260#	90#	20#	305#	745#	500#	1850#	40# 360#



For Eddie

2-18-43

February 18, 1943

MEMORANDUM TO: Block Managers' Supervisor

FROM: Agriculture Department #2

SUBJECT: Requisition

We would like to requisition you for the following materials:

- 2 Army Cots
- 8 Blankets
- 4 Brooms

We are in need of cots and blankets for those who are going to attend to baby chicks during the night hours. We are expecting the arrival of baby chicks within a few days. The brooms are needed in cleaning out the brooders of the baby chicks.

Your effort in obtaining these materials for us immediately will be very greatly appreciated.

2-18-43

Charles Onoye  
Charles Onoye, Farm Organizer



MEMORANDUM 10: All Block Residents  
FROM: Agriculture Department #2  
SUBJECT: Flower Seeds

File  
March 5, 1943

There have been number of inquiries lately by the block residents of various Blocks as to the availability of flower seeds for the flower garden purpose around their barracks. In order to meet the demand for them, following flower seeds have been released and distributed recently to all of the Block Manager's offices by the Landscaping and Nursery Division of our Agriculture Department of Camp II for the Block residents use:

Gosmos  
Kochia  
Sweet Pea  
Petunia

Calendula  
Gillardia  
Snap Dragon  
Larkspur

In addition to the above seeds, ample supply of Rye Grass seeds has also been distributed to the Block Manager Offices quite some time ago.

It is advisable that all those who are planning on a flower garden of their own contact their respective Block Manager or the ass't Block Manager at once and obtain whatever is needed.

Agriculture Department #2



from ag Dept

Subject

Garbage  
Separate  
for hog feeding

File

3-2-43

ブロックマネジャー  
メス・ホール御一同  
在 住者御一同

殿

一九四三年一月十五日

ポストン市農業部

御願

私共御互の食料自給自足の目的を以て曩に計  
劃中でありました養豚事業も愈々準備調ひ  
茲一両日中に第一回飼育豚三百頭が到着する事  
になり尚今後引續き輸送して来ることになつて  
居ります。

而して之等の豚の食料の大部分は毎日我々のキャン  
から出る(約十五噸)のガバーヂを利用する方針であり  
ます故に健康なとして清潔な豚を飼育する爲  
めには今後ガバーヂの採り方に特別の注意を拂ふ  
必要があるの各ブロックで大体左の諸点を御  
注意下さる様御願致したいのであります

一、ガバーヂの中へグラスや皿などの破片又は

空キヤン等を入れぬ様

二、塵埃又は紙類を入れぬ様

三、コーヒー茶又はその糟<sup>カス</sup>を入れぬ様

四、其他腐敗した野菜又は薬品等をおガバーヂ罐の  
中へ棄てぬ様

右は非常に面倒なお願ですが御互私共の必要な食料である  
豚肉を増産する爲めに是非御一同の御協力をお願ひする  
次第であります。

◎ガバーヂは毎日二回(明日より実行)晝食のガバーヂは今日午  
後に晩食のガバーヂは翌朝集めに参ります



CAMP DISTRIBUTION  
AGRI. DEPT. #2Date distributed Dec. 1942Item: Chinese Elm TreesQuantity: 972 864

Delivered from Agri. Dept. #2 (Originally from New Mexico)

Delivered to: Each Blocks

Block	Quantity	Signature
201	<u>54</u>	
" 202	<u>54</u>	
" 207	<u>54</u>	<u>Sub. Kobachi</u>
" 208	<u>54</u>	<u>H. Tsuchida</u>
" 209	<u>54</u>	<u>M. Matsumura</u>
" 210	<u>54</u>	<u>M. Hama</u>
" 211	<u>54</u>	<u>James L. ...</u>
" 213	<u>54</u>	
" 214	<u>54</u>	
" 215	<u>54</u>	<u>K. Yoshida</u>
" 216	<u>54</u>	<u>M. Washimoto (as.)</u>
" 219	<u>54</u>	<u>M. Hamada</u>
" 220	<u>54</u>	<u>K. ...</u>
" 221	<u>54</u>	
" 222	<u>54</u>	<u>S. S. Mohr</u>
" 226	<u>54</u>	
" 227	<u>54</u>	
" 229	<u>54</u>	<u>Henry ...</u>

Dec. 1943

Delivered by Tomio Takeshima

Agri. Dept. #2

Tomio Takeshima  
Material and Supply Dept. #2Received by E. Pagano

Block Manager Supvr.



CAMP DISTRIBUTION  
From Agri. Dept. #2

DATE DISTRIBUTED December 7, 1942

ITEM Chinese Elm Trees (11440 Trees)

Kit.	amt.	Block Manager's Signature
207	96	<u>Jack Kozaki</u>
208	96	<u>H. M. Ikegami</u>
209	96	<u>H. Matsumura</u>
<del>210</del>	<del>96</del>	
211	96	<u>John J. ...</u>
213	96	<u>...</u>
214	96	<u>...</u>
215	96	<u>George ...</u>
216	96	<u>Masato Haskimoto</u>
219	96	<u>M. Hamada</u>
220	96	<u>...</u>
221	96	<u>...</u>
222	96	<u>...</u>
226	96	<u>...</u>
227	96	<u>...</u>
229	96	<u>...</u>

Delivered By [Signature]  
Material & Supply Dept.  
Agriculture Dept. #2

Rec. #7, 1943

Rec'd by

[Signature]  
George Nagano  
Block Manager Supervisor  
Camp #2



## I. Forming This Soil

Dr. Nieschmidt,  
Soils Scientist

The soil of the Poston area has been carried here by the Colorado River from many other places. The Colorado starts as a small clear cold mountain stream, among pines. Its tributaries, from lower areas, are streams of periodic flood, that sweep tons of soil and silt into the main river every year. At one point, the river becomes so choked with silt that, where it falls over a 40-foot cliff, the water evaporates before striking the ground, leaving only a cloud of dust to strike the bottom.

Many states have sent their soils to Poston. Here, the processes which make silt into fine soil have not had water enough to build with. Instead, there have been periodic soaking floods, and long dry spells. The soil here is deficient in some chemicals, and too heavy in others.

The soil here varies very widely from place to place. You can find good dirt for beans, say, at one point, and not be sure that even weeds would grow fifty feet away. Intensive investigation of the soil is needed.

Poston is not desert. It is alluvial. This is the bed of a wandering and flooding river. Its dust is not sand. And, with control of both the floods and the droughts by means of the two dams -- Boulder and Parker -- we who are here now have the first real chance at making its richness yield good crops.

## II. Farming This Soil

H. A. Mathiesen  
Chief, Agriculture and Industries

Since the water is not here yet, the Agriculture department is dividing its time between the making of plans and the settling of the dust. It is trying to find all its available resources, and to have many projects -- guayule, poultry, and so on -- ready when the water comes.

Agricultural plans are temporary, at present. Indeed, it may be best to limit all plans to a few months, until we have found all our good farmers and farm managers, and tested our soil and our skill.

Of the two types of farming, irrigation and range, ours is chiefly the former. Some cattle ~~will~~ may be grazed, perhaps on carefully cultivated pastures.

Almost 80,000 acres of land are available for our farming. We shall probably subjugate only two to three thousand acres. Just now, the Farm consists of a watermelon patch west of the water tower. The larger farming area will develop around the three Centers which will make up Poston.



# FLOW CHART

Exhibit 1

## AGRICULTURAL ACCOUNTING RECEIVING REPORT

Warehouse	Stores Acct'g	Agr. Sharp's Office	Cost Acct'g	Agr & Ind's Office	Subsistence Section
ORIGINAL	→		→		
DUPLICATE	→	→			
TRIPLICATE	→				
QUADRUPLICATE	→				→
QUINTUPLE					
SEXTUPLE	→			→	
SEPTUPLE	→		→		
Prepare and price. Retain QUINTUPLE copy in numerical file and forward other copies to Stores Acct'g. Unit.	Dispose of as follows: <u>ORIGINAL</u> To Cost Acct'g Sec- tion. <u>DUPLICATE</u> To Mr. Sharp Agr. Office. <u>TRIPLICATE</u> Post to stores ledg- er cards immediately and file numerically. <u>QUADRUPLI- CATE</u> To Subsist- ence Office. <u>SEXTUPLE</u> To Agric. & Industries Office. <u>SEPTUPLE</u> To Agric. Office - then to Cost Acct'g Sec- tion with their month- ly summary.	<u>DUPLICATE</u> For entry on Agric- ultural records. <u>SEPTUPLE</u> To Cost Acct'g Sec- tion with the monthly summary for verification.	For entry on agric- ultural records	For infor- mation only.	For infor- mation only.



EMPLOYMENT  
SOURCE-RECORDS OF EMPLOYMENT OFFICE  
EMPLOYMENT REPORT

MARCH 31, 1943

Section I

TOTAL NUMBER OF PERSONS EMPLOYED IN  
VARIOUS DIVISIONS OF THE PROJECT

	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Part-Time</u>	
				<u>Male</u>	<u>Female</u>
I. Administrative Division	243	195	44	4	0
II. Public Works Div.	274	215	39	20	0
III. Com. Ser. and Activities Div.	487	236	189	35	227
IV. Employment Div.	25	7	14	4	0
V. Agr. & Ind. Div.	143	87	42	11	3
VI. Trans. & Supply	59	53	4	2	0
VII. Subsistence Div.	752	350	301	55	46
	<u>1983</u>	<u>1143</u>	<u>633</u>	<u>131</u>	<u>76</u>

TOTAL EMPLOYED IN CAMP III

1983	1143	633	131	76
<u>TOTAL</u> 1983	—	<u>MALE</u> 1274	<u>FEMALE</u> 709	



EMPLOYMENT  
EMPLOYMENT REPORT

March 31, 1943 (2)

SECTION II

NUMBER OF PERSONS EMPLOYED IN VARIOUS  
SUBDIVISIONS OF THE PROJECT WITH  
BREAK-DOWN BY SEX

	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Part-Time</u>	
				<u>Male</u>	<u>Female</u>
<u>I. ADMINISTRATION DIVISION</u>					
General Administration	7	1	4	2	0
Mail and Express	17	10	7	0	0
Community Administration					
Com. Executive Board	3	0	1	2	0
Labor Relation Bd.	1	1	0	0	0
Block Mgr. Sup. Staffs	4	3	1	0	0
Block Mgr.'s Office	171	145	26	0	0
Maintenance	25	24	1	0	0
	<u>243</u>	<u>195</u>	<u>44</u>	<u>4</u>	<u>0</u>
<u>II. PUBLIC WORKS DIVISION</u>					
Construction Adminis.	7	5	2	0	0
Construction, Adobe	63	30	33	0	0
Construction, School	113	97	0	16	0
Construction, Sign Shop	7	3	0	4	0
Road Construction	9	9	0	0	0
Irrigation & Dust Control	7	7	0	0	0
Soil Survey	6	6	0	0	0
Equipment Repair Shop	6	6	0	0	0
Subjugation	33	33	0	0	0
Townsite Landscaping	23	19	4	0	0
	<u>247</u>	<u>215</u>	<u>39</u>	<u>20</u>	<u>0</u>



EMPLOYMENT  
RECORDS\* FILES OF EMPLOYMENT OFFICE  
EMPLOYMENT REPORT

MARCH 31, 1943 (3)

	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Part-Time</u>	
				<u>Male</u>	<u>Female</u>
III. <u>COMMUNITY SERVICE &amp; ACTIVITIES DEPARTMENT</u>					
<u>Service Departments</u>					
Education					
Pre-School Staff	24	0	24	0	0
Elementary	32	10	22	0	0
High School	22	14	8	0	0
Administration	37	3	9	6	19
Maintenance	20	17	3	0	0
Fire Department	27	27	0	0	0
Clinic					
Medical	14	4	10	0	0
Dental	10	5	5	0	0
Public Health Dept.	14	4	8	2	0
Garbage Collecting	19	19	0	0	0
Housing	3	1	2	0	0
Legal	2	1	7	0	0
Library	8	0	7	0	1
Insurance	1	1	0	0	0
Family Welfare Dept.	5	0	5	0	0
Police Department	45	43	1	1	0
Poston Chronicle	43	12	10	16	5
Public Address System	4	2	0	2	0
Red Cross	10	8	2	0	0
Sociological Research	5	2	3	0	0
<u>Activities Department</u>					
Adult Education	19	11	7	1	0
Arts & Crafts					
Art Dept.	5	1	4	0	0
Dance	1	0	1	0	0
Entertainment	2	2	0	0	0
Girls' Group Work	4	0	4	0	0



EMPLOYMENT  
EMPLOYMENT REPORT

MARCH 31, 1943 (4)

	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Part Time</u>	
				<u>Male</u>	<u>Female</u>
Issei Cultural Activities	12	7	5	0	0
Men & Boys' Sport (P.C.3A.A.)	30	25	1	4	0
Community Activities Administration	4	3	1	0	0
Music Department	10	2	5	3	0
Sewing Dept.	35	1	33	0	1
Shibai	20	11	8	0	1
	<u>487</u>	<u>236</u>	<u>189</u>	<u>35</u>	<u>27</u>
IV. <u>EMPLOYMENT DIVISION</u>					
Employment Office	13	5	5	3	0
Leave Office	6	1	4	1	0
Census	6	1	5	0	0
	<u>25</u>	<u>7</u>	<u>14</u>	<u>4</u>	<u>0</u>
V. <u>AGRICULTURE &amp; INDUSTRY DIVISION</u>					
Agriculture Department	42	31	4	7	0
Industry Department Administration	17	7	5	3	2
Ben Sprout Production	5	5	0	0	0
FOower Making	11	0	11	0	0
Tofu Production	5	5	0	0	0
Sewing	5	0	5	0	0
Toy Making	8	8	0	0	0
Community Enterprise Canteen	31	16	13	1	1
Barbar Shop	3	1	2	0	0
Shoe Shop	16	14	2	0	0
	<u>143</u>	<u>87</u>	<u>42</u>	<u>11</u>	<u>3</u>



EMPLOYMENT  
EMPLOYMENT REPORT

MARCH 31, 1943 (5)

	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Part-Time</u>	
				<u>Male</u>	<u>Female</u>
VI. <u>TRANSPORTATION AND</u>					
<u>SUPPLY DIVISION</u>					
Motor Operation	25	23	2	0	0
Supply Department	3	2	1	0	0
Warehouse	31	28	1	2	0
	<u>59</u>	<u>53</u>	<u>4</u>	<u>2</u>	<u>0</u>
 VII. <u>SUBSISTENCE</u>					
Administration	11	8	3	0	0
Mess Halls	741	342	298	55	46
	<u>752</u>	<u>350</u>	<u>301</u>	<u>55</u>	<u>46</u>



EMPLOYMENT  
RECORDS-FILES OF THE EMPLOYMENT OFFICE  
EMPLOYMENT REPORT

Poston Unit III  
Month Ending  
March 31, 1943

MONTHLY STATISTICAL REPORT  
EMPLOYMENT DIVISION

(All replies as of last day of the month)

	<u>A.</u> <u>TOTAL</u>	<u>MALE</u>	<u>FEMALE</u>
1. Number employed in Project Work (see Part B)	2012	1307	705
2. Number in private employ- ment on Project	140	,122	18
3. Number in private employ- ment off Project but liv- ing on Project	-----	-----	----
4. Number in Labor Force not employed (Those registered for work but not working)	<u>161</u>	<u>84</u>	<u>77</u>
TOTAL IN LABOR FORCE	<u>2313</u>	<u>1513</u>	<u>800</u>
5. Total number of residents (Not including those absent on temporary fur- lough	4346-	2495-	1851
6. Number away from Project on Group employment fur- lough	-----	<u>1</u> -----	----
7. Number of people who left for Group Employment this month	11	11	-----
8. Number of people who re- turned from outside Group Employment	-----	-----	-----
9. Number of school student employed			
A. Project Work	216	142	74
B. Private	-----	-----	-----



EMPLOYMENT  
EMPLOYMENT RECORDS

B  
EMPLOYMENT BY SECTIONS  
CASH ADVANCE CLASSIFICATION BY SEX  
(All replies as of last day of month)

<u>SECTION</u>	<u>TOTAL</u> <u>EMPLOYED</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>	<u>M</u>	<u>F</u>
1. Project Operation	520	16	1	320	96	74	13
2. Community Enterprise	55	4	1	21	14	9	6
3. Construction	200	20	0	0	2	142	36
4. Agriculture	123	7	0	94	8	14	0
5. Land Development	16	0	0	0	0	16	0
6. Industrial	51	3	3	17	17	8	3
7. Mess Operations	762	57	46	200	289	150	20
8. Others	<u>340</u>	<u>39</u>	<u>24</u>	<u>87</u>	<u>107</u>	<u>43</u>	<u>40</u>
TOTAL	<u>2012</u>	<u>142</u>	<u>74</u>	<u>718</u>	<u>519</u>	<u>447</u>	<u>112</u>
TOTAL		MALE	<u>1307</u>	FEMALE	<u>705</u>		