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PROCEEDINGS

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THE BEST USE OF FORMST LANDS

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^{hosented} before the Western Farm Economics Association meeting; Berkeley, California; June 14, 1939

Wices are produced; and many economic interrelationships with agriand industries exist. Forest areas comprise about 630 million According to reports of the National Resources Board, or nearly onetotal land area. Lands used for agriculture, by comparison,

Ropest lands of the United States make up a highly important part of Resources. The areas involved are large; numerous forest products

 t_0 415 million acres, and range land 550 million acres. by Beneral forest area, such as the national forests, includes Des of "wild land" or vegetation cover, with timber, brush, barren

by types occurring in different patterns. Some of these types are by for purposes such as watershed protection, grazing, or recre-East forest lands however, produce lumber and other wood products,

the same time yield social benefits from these subsidiary uses. the "best use", or the best combination of uses, on the 630 million b forest use", or the best combination of uses, on one considered in by as that which contributes most to social welfare. Forest lands

Put to their best use when they make the greatest possible addihational income, considering both financial and non-monetary ^{1 OVer} long periods of time.

Contraction of forest resources is of importance to many social Consumers have an interest in low-priced timber products and in Mementary services provided by forests; labor groups and commundepend on forest employment, while owners of industries are inter-Traw material supplies and investment returns. Conflicts between Mifterent interests frequently occur. Certain private incomes are by scarcity of timber and high values, for example, but society Men there is relative poverty of useful resources. Policies for Welfare should consider populations receiving direct returns from Nothers receiving indirect benefits or incurring the social e scaleity and depletion, and future generations dependent on the ^{of} resources which they will inherit.

hends in forest land use have pointed toward more intensive forest tion and utilization. As timber resources in the East, the Lake the South, and more recently the Pacific Northwest have dwindled Wiftly moving migratory lumber industry, various steps have to prevent further timber depletion. The pioneer attitude of tree cover as an obstacle to agricultural expansion is now found Limited regions. The forest conservation movement has steadily

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^{lorest} cover is also becoming of increasing importance for protectthe development of agricultural valley lands has intensified the to of flood control and the need for stable water supplies for the become increasingly necessary in many river systems to the silting of reservoirs, to insure usable water supplies, and farms, residences, and other investments from flood damage.

^{Vra}Zing of livestock on the 334 million acres of forest lands ^{Veable} forage is of outstanding importance, particularly to western ^{Veable} Producers. Summer grazing on forest and mountain ranges supple-^{Vinter} grazing and crop agriculture in valley areas at lower ^{Vest}, and thus makes possible the continued existence of much of ^{Vest} livestock industry.

In addition to timber utilization, supplementary uses yielding nonbenefits are of increasing importance. Recreation in timber intested regions. Users of the national forests increased in number the last few decades from next to nothing to several million to increase.

The past utilization of our forest resources has created many and social problems. Decadent communities mark the passing of the operations and wood-using industries. In regions such as Oregon, and California, local cutting exceeds local growth, indicating process of abandoning sawmill towns and shifting populations to harket centers. Large fire losses still occur, with protection indequate on more than 40 percent of the private forest lands. also exist.

^hile cutover land is now being left in a more productive condition, ^{i crops}. Jorestry is barely launched on a policy of producing continuous ^{of their} virgin stands because of limited timber supplies in relation ^hevertheless it is estimated that 20 percent of the private forest ^he now being managed under good forestry practices, and over 80 per-ⁱⁿ good condition for growing timber crops.

^{Al Nomentum} during recent decades and has in addition spread to other ^{Al resources.} Since 1891 the area of national forests has expanded ^{A reservation} of public lands and acquisition. Fire protection has ^{Alended} to most forest lands under the Weeks Law of 1911 and the ^{Are} leaving forest lands in better condition for producing timber ^{Some} beginnings in sustained yield forestry have also been made. ^h these trends toward more intensive use of forest lands for ^{creation}, grazing, and watershed protection in mind, attention ^{ntered} on two problems, that of the best alternative use of ^d, and that of the best intensity of forest management. 4]

Alternative Use of Forest Lands

Many regions such as the Pacific Northwest and the Sierra Nevada of California, timber growing, grazing, or crop agriculture are 'e uses. Historically, lands have usually been left for forest then deemed too poor for agriculture. Attempts to farm the soinginal" areas have created such intense social and economic however, that efforts have been made to determine the economi-' suitable alternative use.

' considerable expansion of crop agriculture into forested areas ther remote, judging from agricultural trends. In many regions, ler hand, some crop lands are even reverting to forest. Numerous "plain the relaxing of pressure for agricultural expansion, such 's of export markets, increased use of machinery, and the reduced "pulation increase. An addition to the area of crop land of 30 lion acres may be needed by 1960, according to the National Re-"Pard, but new crop acreage undoubtedly will be created from till-"re and reclamation projects rather than forest lands.

iflicts between grazing and forestry are somewhat more intense ^{3t} in forest regions of many states where there is pressure for ^{of} livestock ranching and subsistence farming. Heated arguments ^{burning}" signify the continued importance of this conflict. ^{huch} forest land has been converted into pasture by fire, indis-^{burning} in regions such as the Sierra Nevada foothills has ^{no-mans} land of brush which produces income for neither stockman ^{ter.} Intensified fire protection, on the other hand, has re-^{zing} capacities on some forest lands once used for grazing by ^{growth} of trees rather than grass or browse.

assifying lands in the marginal grazing-forest zones depends on t opportunities for the population involved, on trends in demand mative products, and on the criteria used. In general, the best rginal zones may be determined from the alternative net real ealized by all groups affected by utilization of the area in 1/ The income distribution patterns and the permanence of re also involved in this criterion.

e need of present income for living often forces subsistence to graze livestock on forest lands regardless of timber destrucltimate forest incomes. Pressure of population on resources is istic in areas of low productivity, and population pressure

vid Weeks and H. R. Josephson. "Economic critoria for classi--urban land according to probable best use." Journal of Farm , May, 1939. ¹⁹⁸ depletion. To redistribute population, however, involves the task of developing alternative employment.

^{Ss}ification of land for various uses depends, moreover, on ^{comparing} incomes. High rates of discount used in valuing ^{Orest} incomes result in low values for forest use. On the other low discount rates, possibly justified for long period valua-^{the} standpoint of society, may indicate values for long deferred ^{Omes} equal to or greater than values for grazing use.

¹⁰Onal policies affect land classifications by influencing agri-¹⁰d grazing pressure on the remaining forest lands. Thus if the ¹¹t problem gets bad enough to force a partial reversion to ¹⁰ditions, the best use of some land now in forests might be for ¹⁰farming. With such a movement subsidies would have to be ¹⁴dintain anything but pioneer living standards.

dizing best use of forest lands thus involves a land-use classibased on general economic trends and on prospective incomes to all social groups. Making classifications effective usually be controls such as zoning or other legislation.

addition to competitive relationships, forestry and agriculture supplementary uses. The system of permanent forestry in Europe a large extent upon the use of resident labor deriving agriheome from small farms in forest regions. In many parts of the farm woodlots and well-distributed forests are common, more tilization of agircultural labor can be promoted by appropriate licies. In our western states seasonal labor requirements for and lumbering coincide to such an extent that a close supplelationship usually does not exist. Nevertheless, income from or lumbering constitutes an important element in the support isistence ranchers located in or near forest areas.

tesidual forest lands not claimed for crop agriculture or grazters have the task of balancing competitive and supplementary . Many combinations of timber production, recreation, water wild life production, and grazing occur on forested lands. are "islands" of resources adapted to one specific use, as ^{Ae} of lakes or meadows in timber areas, the problem is primarily tales of meadows in timeor area, hast Management organization. Combining uses on given areas of is often a difficult economic problem in forest administracreational activities such as hunting and camping characteristifound on areas used primarily for timber production. Other of subsidiary uses and timber growing frequently occur on a One of the main economic objectives in forest planning is to Various forest uses so as to obtain the optimum output of Returns and indirect social benefits. Production of goods and ton several forest uses justifies spending funds for protecting Ding lands of relatively low values.

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Intensity of Forest Land Use

he determination of best alternative land use and the best combinaforest uses is thus of major importance in forest planning, but a tation of the residual forest lands for management intensity is ded. We have approximately 460 million acres of "commercial" ands with wide variations in stands, growth and accessibility. It imber on these lands raises questions of the desirable intensity enent, and the allocation of areas between public and private ownertreme variations in management are possible, varying from limited tection to an intensive forestry.

br a classification of management intensity accurate forest invenstands, growth, and drain are needed, together with economic of prospective use and demands. The desirable intensity of mandepends, like alternative uses, upon a number of economic factors

¹⁰ factor of major importance, for example, is the amount and disof timber supplies in relation to drain. Through the last few ¹⁰ mings of timber famine have been frequent, some emanating from tionists and others from industries producing wood substitutes. The alarm of 30 years ago was justified in view of the long upward ¹⁰⁰⁰ consumption, underestimates of timber supplies, and large ¹⁰⁰⁰ consumption, underestimates of timber supplies, and large ¹⁰⁰⁰ about 20 billion board feet. Substitute materials have been ¹⁰⁰⁰ about 20 billion board feet. Substitute materials have been ¹⁰⁰⁰ the use of wood for paper, rayon, plastics, and other cellulose ¹⁰⁰⁰ though relatively small, has shown a strong upward trend.

a result of reduced wood consumption and regrowth on cutover ber growth and drain now practically balance for the country as Wood supplies are sufficiently plentiful that a future shortage for Probable. In contrast, fears are even expressed that future av not absorb prospective timber production.

though timber exhaustion appears remote, many economic problems bution and local depletion still remain. In castern regions on exceeds local supplies, necessitating costly timber imports regions such as the South and the Pacific Northwest. It would be socially economic to spend money for fire protection and inder imports. Total wood utilization is balanced by volume at large trees and valuable species are being used, whereas recurs on small trees of inferior quality.

and factors are of particular significance in planning the use ial forests, since the marketing of products must be recognized inspring of industrial forestry. What consumers will pay for of trees into lumber, paper, and other products will determine employment and capital returns. Investments in timber growing governed by prospective demands for timber products, with an 43

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Attractive short-run influences often make forest investments and the short-run influences favor more intensive management and the short of the shor Mile short-run influences often make forest investments appear Whetive, economic incentives favor more intensive management and the forest industries. Frequent cutting by selective logging When we, economic incentives includes the selective incention of the selective incomposition of the selectine of the selecti And a ficient tractor and truck equipment. Cutting the larger the same time converts stands into in of forest investments, and at the same time converts stands into the same time converts seements, and at the same time converts seement. Whe stocks of vigorous trees capable of rapid value increment. When in regions such as the pine belt of the Sierra Nevaua 100-which the feasibility of obtaining high rates of earnings on trees the feasibility of obtaining high rates of earnings initiate ⁽¹⁾ Selectively cut stands. It is essential that owners interesting cutting methods before timber reserves are depleted, however.

The deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the deflation of speculative timber values and an apparent not in-the de h_0 deflation of speculative timber values and an apparent need for With of plant capacity have many counterparts in agricultural in the economists can find desirable means of curing agricultural Why or plant capacity have many of curing agriculture of these problems, perhaps foresters can adopt the same methods for solv-Problems of timber production.

The desirable intensity of management for timber-growing lands is Mented by a number of other economic factors. Over-optimistic in-Wellouded by a number of other economic factors. Over-operations have been made in the purchase of many large timber holdings. Mats have been made in the purchase of many large timber months with installation of sawmills created capacity almost twice that All and the produce even the peak lumber demands of the predepression The need for income to meet heavy interest payments on bonded in-the need for income to meet not necessitated eroner in turn necessitated eroner in turn necessitated eroner in the tight demands for the tight in the tight in the tight is the tight in the tight is the tis the tig in both domestic and export markets aided in bringing about lower And profits than expected. Low investment returns in an overand profits than expected. Low investment returns in an over the back profits than expected. Low investment returns in an over the humbering industry have darkened the outlook for sustained yield the back of small timber holdings as well as the profits than expected. Let a standard profits than expected. Let a standard profits than expected. Let a standard profits the substant of small timber holdings as well as the standard of small timber holdings in the The existence of thousands of small timber norungs and the capacity has tended to intensify competitive conditions in the Industry.

The intensity of management on forest lands is also influence. [1] policies such as those involving tariffs. The tariff increases [1] policies such as those involving tariffs. The tariff increases of the second The intensity of management intensity intensity of management intensity of man And subsequent foreign retaliation explained in part one foreign markets by domestic producers of Douglas fir, redwood, and other The Species. Proposals for tariffs to enable wood producers in the All species. Proposals for tariffs to enable wood producers in com-bla states to supply all our pulpwood and paper requirements involve a black has benefits to forest industries. Since We States. Froposats for We between national welfare and benefits to forest industries. between national welfare and benefits to forest industries. the tween national weildle and paper consumption is imported, and the same time exports of the same time exports of White billity of forestry in this country, but at the same time exports of Mability of forestry in this country, but at the same of the products from the United States undoubtedly would be reduced.

Teserve of publicly-owned timber for emergencies or for production Notice to new demands. In the light of present trends in wood use and Alation growth, it is estimated that future wood consumption will vary Recent levels of about 14 billion cubic feet up to 19 billion cubic We here the levels of about 14 billion cubic feet up to 19 Wood annually. Many national policies affecting population, comparison, comparison activity, however, will influence actual market demands timber products.

Forest policies to make effective the classification of lands for ations of forest uses and for intensity of timber management may be ized briefly as (1) provide adequate fire protection on all forest to insure some kind of vegetation, (2) promote intensive forestry ^{more} productive lands to produce timber for prospective demands,

Policies to Promote Best Forest Use

The allocation of public funds for forest protection and management ious degrees of intensity is important in forest planning. Since ely owned lands are of greater area and value than publicly owned forest investments might be made most economically if concentrated More productive private forests where returns are potentially st. Spending public funds on private lands is justified by the benefits from cheaper forest products and from the supplementary USes Which yield non-monetary returns.

te returns on present expenditures must be to become "profitable". Outlays to rehabilitate forest resources often show promise of Net return, yet productive timberlands will benefit future genera-Many recent expenditures to maintain forest resources, moreover, sen made by public agencies as part of an emergency spending program, andard cost accounting systems do not indicate the profitability of invoct investments when unemployment of labor and capital is prevalent. heless, alternative incomes from investments of relief funds should raised in a national planning program when expenditures can be made ^{spitals}, housing projects, or production of commodities.

Ments to private management, since incomes will be limited and long ed. With public ownership, there is a question as to how great

Large areas of depleted cutover and poor timber lands offer few lents

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In view of trends in timber consumption and prospective timber is, it appears to be wise policy in the case of the depleted and forest lands to provide only protection from fire in order to Watershed values and adjoining timber. Young stands on accestreas, on the other hand, promise returns on investments in proteca stand improvement. Remaining virgin forests, in particular, often managed profitably for sustained yields when of high growth capacity Sessible to markets, and when excess plant capacity does not compel lepletion. The better forest areas may be expected to yield a diflal rent from the production of timber crops.

Porest management for continuous timber crops is also being influtrends in interest rates. Low earnings in timber industries in t have resulted in pressure to liquidate investments in order to It in alternative enterprises promising greater returns. Declining in interest rates, bringing about levels of 5 to 5 percent and even br industrial bonds, place even low earnings of forest investments bre attractive light. These economic trends favoring continuous and incomes over long periods are of considerable importance forest use on the large areas of private lands will be determined by tive profit if private initiative is preserved.

ement and marketing should be continued.

Cooperation between public agencies and private landowners has to increasingly important, with public agencies resorting to subsidies tain better forest practices. Financial and other aids are given to $t_{\theta}^{\rm tubelter}$ forest practices. Financial and other and use $t_{\theta}^{\rm tubelter}$ forest protection, selective cutting, and permanent operations. lew of the public interests involved, this policy of assistance in top the public interests involved, this policy of assistance in h for the public interests involved, this policy of assistant be hued in taining forest lands in productive condition should be hued. Providing more adequate protection from fires, insects, and but in Providing more adequate protection from lires, insect, is through Federal and State agencies is not only economically feasbut justified by social values in forest lands and in the case of by justified by social values in forest lands and in one can a public for causing heavy losses. A public of the public for causing heavy losses the security of to of low cost forest fire insurance would increase the security of t_e^{1} low cost forest fire insurance would increase one could increase one could promote permanent for all permanent ed along farm credit lines perhaps, could promote permanent forest tions Taxation of forest land should be adjusted for sustained tions. Taxation of forest land should be adjusted for Successful to Successful the ted as Cooperative producing and marketing associations could be tild as Research in forest red as a means to better forest utilization. Research in forest

Marine increases in the area of public forests appear probable, icularly for low value, depleted, and tax delinquent lands. Other thed and public recreational areas should also be publicly owned in the public recreational areas should also be public acquisition e returns are non-monetary and widely diffused. Public acquisition he 340 million acres of commercial forest lands in private ownership t present of little more than academic interest, however, in view of large + large transfer of funds that would be necessary.

Public ownership at present extends to only 120 million acres of Vercial forest lands, or about one-fourth of the areas best suited for product cover but suited ler production. Additional public lands with forest cover but suited Wroduction. Additional public lands with forest cover out the about willion subsidiary uses other than timber production amount to about line lands are in national forests, al-Willion acres. Most public timber lands are in national forests, alth state, community, and other federal ownerships are also important. e generally of less value than private forests, most public areas are ^{scher}ally of less value than private forests, most pathe and a standard s ing, recreation and other land uses.

Public measures for obtaining the best forest land use and the best The set of measures for obtaining the best forest land use and the set of management include public ownership, cooperation with private is and the set of rs, and regulation of forest practices on private lands.

Policies designed to attain the best use of forest lands apply $e_{f_{0}}$ to areas in private ownership. Privately owned lands make up set fourths of the commercial forest area, and include the most valuable ber and the commercial forest area, and include one most is sent of the more productive sites. Farm woodlots alone comprise 30 tent of the commercial forest area. Sixty percent of the remaining timber is privately owned. Ninety percent of the potential forest Ming capacity and 95 percent of the forest drain is on private lands.

^{expend} funds for forestry purposes according to timber growing capacity prospective benefits, (4) foster permanent operations to maintain stable Munities and industries.

In addition to public ownership and public assistance, regulations Obtain desirable forest practices may be applied where needed. V effective public controls to insure slash disposal and fire protection ^e been initiated by various states. The short-lived NRA attempted to " ^{Toye} for the states of the state o Nove initiated by various states. The short-lived man accomptent, initiated by various states. The short-lived man accomptent, initiation practices through "industrial self-government", Wiformity of regulation and control of minority elements was found to difficult of regulation and control of minority elements we have been by be that additional public controls over forest as sweden by be have be necessary, similar perhaps to those in countries such as Sweden $i_{0,i_{0}}$ he necessary, similar perhaps to those in countries such as Sweden The intensive forest protection, approved cutting methods, and planting Compulsory and accepted features of forestry. Costs in excess of those and provide that such expenses are borne by all Quick Liquidation may be involved, but such expenses are borne by all by represent the source of the timber supply price. The social philby regarding regulation in the United States has not crystallized in ^{vor of complete} public control over the use of natural resources. ^{voning} and urban regulations nevertheless indicate that public control Trends It land urban regulations nevertheless indicate that putting and urban regulations nevertheless indicate that putting in forests or other natural resolution in forests or other natural resolutions in forests or other natural resolutions. The in Order to protect social values in forests or other natural resources.

The best use of forest lands may thus be approached through classiations for alternative uses, for combinations of supplementary forest in economic analyses of the ultimate costs and benefits to all social istance to private landowners, and public regulation of forest praci stable in order to realize productive forests, profitable industries, and permanent forest employment.

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Discussion by Paul A. Eke University of Idaho

of

THE BEST USE OF FOREST LANDS

by

H. R. Josephson California Forest and Range Experiment Station

There are at least two features of this paper that make it of unly value to all those interested in land planning. The first is the lay of coals which can be used as gauges of best use. These goals equally applicable to appraising or planning other land uses. Deable Coals have been so much needed in many of the recent action that a review of those given here seens to be justified in the of Giving them the emphasis which they deserve. A broad general tement of these goals is given in this paper. To get a more specific this issue, David Teels and H. R. Josephson list the following goals:

- "1. Increased per-capita net real income.
- 2. Reduced dispersion of income.
- 3. Permanence of income."

These toals may well become the socio-economic philosophy of all Duic planners, particularly, of those dealing with land. One exto pranners, particularly, of more dealing in toward large mized form units, which frequently go for beyond the point of the the cost combination", could well be judged in the light of these A lend use program emanating from such an application might be A lend use program emanating from such an appreciation problems startlingly effective in solving the surplus population problems Wiculture in areas which have the best farm lands. As a further subsistence farming on cut-over forest lands might not then be No subsistence farming on cut-over forest lands might he optimism No so necessary for some people. The second feature is the optimism Werning sufficient growth of timber, together with mature stands to Mately care for our immediate and distant future needs. This stateis a bright ray of light piercing the gloom which has been created West Writers on this subject during the last twenty or thirty years. Mans Somewhat more emphasis should have been given to local exceptions. Netion and lack of sufficient growth prevail in areas nearest to market.

Statements concerning required intensity of management for forests different qualities are appropriately made. The theory of efficiency, weity, and productivity might well have been used in this connection. Dublie funds have not been spent on this basis is not over-emphasized. Father poor national forests have had more than their share of pubfunds. In this connection, there seems to be a need for considering ts in Public expenditures from public to private forest lands. These Additiones might be made to correspond with fulfillment of required And the part of private timber land owners. This would and the part of private timber land owners. This would have to payments to farmers for soil conserving practices under the Replace to payments to real adjustment Administration.

Westions are raised concerning the advisability of using relief ¹^{lor} improvement of forests. This seems entirely proper. As an the, it appears that this labor might in some instances be used more to appears that this labor might in some instance. Wing subsistence communities found on cut-over lands by moving some We subsistence communities found on cut-over times of motion build-Poads and schools.

Otatements on federal forest credits, fire insurance, and taxation by all sound familiar to the agricultural economist. There seems to b recommend familiar to the agricultural community. M_{cularly}, to promote farm and small-scale forestry.

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Sawnill "over-capacity" might well have been discussed along with Reference of monopoly price control which exists in many areas. brice competition among retailers is another matter of grave con-A in respect to "over-capacity" of sawnills.

The relation of tariff manipulation to foreign lumber demand has treated briefly. Perhaps one should add to this statement the need ted and by foreign nations if lumber is to be purchased from the ted States. This will involve lower industrial tariffs to permit bior importations. The lumber industry is, it appears, in about the b positions. The lumber industry is, it uppends, in the position as wheat and cotton producers who must depend upon foreign the same sources inspiring v_{s} for a large part of their income. From the same sources inspiring v_{for} a large part of their income. From the same sources inspiring to for a large part of their income. From the same board think that the trans to ask for higher tariffs, not a few lumbermen think that $t_{\rm Out}$ for the evils of high tariffs is more high tariffs; particularon the evils of mean their particular products.

Ender the section entitled "Alternative Uses for Forest Lands", ^{Under} the section entitled "Alternative Uses for Forest for agri-^{Consideration} is given to settlement of cut-over tands for ^{log} use. It is the conclusion that not much more will be cleared ^{log} use. It is the conclusion that not much more will be cleared Utal use. It is the conclusion that not much more will be used to force the quote, "the unemployment problem gets bad enough to force that such conditions." The facts are that such conditions." tiel reversion to pioneer conditions." The facts are that such con-Nons now prevail and have prevailed since 1953. These lands are Now prevail and have prevailed since 1955. These tand lighten and now, by a local surplus of rural population, by droughttion farmers from prairies, and by some unexployed industrial people. Tarmers from prairies, and by some unemployed industrial improved lands mean nothing to any of them since they have meagre With which to purchase. Farm lands in older areas reverting to With which to purchase. Farm lands in order areas it. and a doubt, when we offset this new clearing, but this clearing will, no doubt, May offset this new clearing, but this clearing will, no applied indefinitely. There is a serious need of preventing exploitaof these people by owners of cut-over lands, both as to prices asked

Weently Cooperative "Bulldozer" Associations have been formed through the Fara Security Administration, which are cutting costs of pulling $t_{u_{abo}}$ Security Administration, which are cutting costs of relation t_{abo} to one-fourth or less-as little as 37.00 per acre in northern ldaho.

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