## Will there be enough land?

WASHINGTON, D.C. - The question is not new. It is often asked when famines strike in Africa or the Asian subcontinent, or when a drought hits the Mid west. It has usually faded away
fairly typical amount for U.S. agriculture.
While it's true, as some point out, that "they're not making any more land," the United States is a long way from running out of it. Our
"They're not making any more land."
with a return to agricultural surpluses and government programs to idle land.
The question is asked again today, for reasons old and new: the recent rise in U.S. farm exports, a fear that gains in agricultural productivity are slowing, conversion of farmland to urban uses, continued erosion, proposed use of farmland to produce energy, and declining water tables in agricultural areas dependent on irrigation. The fact that less of our cropland is now being held idle heightens these concerns
The United States has a land area of 2.26 billion acres. The Federal Government owns 751 million of these acres. Urban land accounts for 69 milion acres, and land in transportation rights of way, water impoundments, and Subtracting these a creages leaves 136 billion acres of rural land which the Soil Conservation Service classified in 1977 as follows:

- Cropland - 413 million acres.
- Pastureland - 133 million
- Rangeland - 414 million,


## The question of land availability has been prompted by the loss of farmland to urban uses.

- Forestland - 376 million, and - Other - 23 million

When people ask, "Will there be enough land?", they usually mean cropland. The total acreage classed as cropland has not changed much for several decades. However, the acreage actually used in crop production actually used in c
Of the 413 million cropland acres in 1977, about 377 million were in 1977, about 337 milion were levels reached before and im. mediately after World War II. The rest, about 36 million acres, was idle, in soil-conserving uses, or ide, in soil-conserving uses, or
short-term rotation pasture - a
agriculture is far less intensive than that of Japan and other densely populated countries. The real question is how much and what quality of land will tee made available for food and fiber production. The answer depends on economists, technology, and public policy.
In 1977, SCS idenfitifed 127 million acres with high or medium potential for conversion to crop profitability of conversion at the profice relationships prevailing in price relationships prevailing in con, the po would boost total US cropland 30 percent to about 539 million acres. In the past few years, crops - particularly soybeans in the south - have been more profitable than cattle; therefore, a significant amount of pasture has been converted to crops.
The Corn Belt and Delta, two of our most productive regions, have almost 25 million acres of potential cropland for expansion of crops like corn and soybeans. Potential cropland in the Corn Belt is now
largely in pasture, which, though converted more easily than land in other uses, would still need drainage for regular cultivation. Conversion of much of the Delta's potential cropland would require more expensive clearing of forestland or drainage
The Northern and Southern Plains have the largest reserve of potential cropland ( 38 millio acres). However, much of this land has erosion problems or is
climatically suitable only for wheat and sorghum. In the drier creased wheat production would typically require two acres to get one acre of harvested wheat, with the other acre being kept in cultivated summer fallow. The economic feasibility of converting to crops in these regions would be severely restricted by the reduced supply of higher costs of irrigation

Future modest increases in yields per acre could offset loss of cropland.
water. Moreover, since much of this land is now used for grazing, livestock production and incomes would be affected by such conconve
Conversion of potential cropland in the Southeast and Appalachia,
totaling 30 million acres, would totaling 30 million acres, would siderable forested land, erosion control in upland areas and control in upland areas, a Smaller potential acreages are found in the Northeast, the Lake States, and the Mountain and Pacific States. Cost-price relationships in 1976, used by SCS relationships in 1976, used by SCN in making these potential cropland
estimates, were not especially estimates, were not especially
favorable to agriculture. Prospects for higher farm income Prospects for higher farm income uses. Sustained higher income would lead to actual conversion. The physical and economic potential for conversion to crop uses is only one part of the story. Competition between food and fiber. production and nonagricultural uses is another Recently, the question of land availability has been prompted especially by the reported loss of farmland to urban uses.
According to SCS data, up to 875,000 acres of cropland or land with high or medium crop potential quere converted each year to urban and built-up uses between 1967 and 1975. While some fear this record will continue, others suggest that the conversion rate has slowed in recent years. Some maintain that even if the numbers are correct, an annual loss of 875,000 acres from a cropland base of 539 million - one-
sixth of 1 percent a year - is far

urban uses are. Not all of the land goes into high-rise apartments and shopping centers. And just higher crop returns will stimulate conversion of rural land into crops they will also - if high enough slow conversion of land out of
mining coal as well as The Energy Security act of calls for 10 percent of annual U.S gasoline consumption by 1990 to come from alcohol - 11 billio gallons, assuming a total U.S consumption of 110 billion. If half of this alcohol were to come from corn, 12 to 20 million additiona acres of cropland would be needed (the range depending on how much feed byproducts from alcoho production are utilized. If corn were the sole source of this alcohol the additional acreage required could run as high as 39 million acres. However, if the current softness in oil prices continues, it is highly improbable that this demand on cropland would materialize.
The productive capacity of U.S. agriculture depends not only on the much can land but also on how acre. Indeed, doubts about the
farming
Problems will arise, or worsen, in certain states and localities experiencing a loss of cropland or decline in productivity. On the state and local level, conversion of farmiand to urban uses or depletion of ground water may be seen as a problem requiring immediate remedial action, even for the nation as a whole
for the nation as a whole
The potential use of cropland for energ production is another, This includes land used for strip
future nonland sources of productivity growth are often the real basis for the question, "Will here be enough land?
Our traditional land orientation tends to obscure the fact that land is only one of the resources still need soil to produce most of our food, but science may one day change even that
U.S. agriculture's past productivity growth is well known. etween 1910 and 1980 farm output increased 250 percent, while total (Turn to Page A26)
ess worrisome than the impac available cropland. Also, future modest increases in yields per acre could offset such loss of cropland. At least, this has been the case in the past.
Interpretation of the data is made difficult by the inevitable shifting of land in and out of crops. Also, it's debatable how per manent these shifts from rural to

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