As USDA Completes First 100 Years

s Decade of Progress

Research helped make the There were advances in fertil- proof fiber treatment, wash and in experimental fields of the In Toods include boil in the base 1960's a decade of development izers, seeds, feeds and planting wear fabrics, advances in dehy- ternational Rice Research. In foods, low caloric dict foods in in all phases of agriculture - practices (such as narrow-row dration methods for coffee, fruits stitute in the Philippines technology, production and disti ibution.

The laboratories yielded flame-

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vegetables, meats and damy pro-

ducts

tribution and storelayout

provements in USDA's continu. areas. ing program of crop reportingimproved data processing and faimei's big success crop of the the use of new techniques such decade, as would demand for oil as aerial photography and re- and protein expanded Growers supplements mote sensing from space, accord- found many new varieties of soying to the USDA.

and poultiy developed in the for more traditional crops other microingredients were add-also came from the laboratories foods are now available that are ed to concentrated feeds, boost-ing livestock gains more efficient-USDA's Beltsville facility pro ly and economically to answer duced 'fatherless' turkeys -- One recent study estimates rapidly growing demand.

for meat, a growing population thogenesis, they found, also oc of sales and larger personal incomes have spuried the increased pro duction of meat and poultry. The 1960's also say shifts in feedlots and poultry farms south and west of the Coin Belt

both in the United States and diamage in lands such as India, Pakistan and the Philippines

ince research was supported with government and universities all New packaging techniques both public and private funds contributed to this progress The new strains of rice were de-

The 60's also saw marked im- grain yields in developing world taid, cake, bread, biscuits and

Soybeans became the U.S.

cuts in other poultiv (However pioduction)

New grain developments USDA devised a method of using fork 1 ft truck and automatic emerged in the 1969's New lasers to keep machines on a dumping clupment Big John" short-stemmed nee varieties have straight course while laving con bulk freight cars unit trains, boosted production since 1967, tinuous plastic tubing for field adaptation of carbon dioxide or

An international effort, the ing and marketing Industry, poit

gained shelf space in the 60's, as containers demand for convenience forms advanced

Other new "market accepted"

stant div skim milk, potato "Mexipak" and similar new flakes, sweet potato flakes, at varieties of wheat another in- tificial sweeteners freeze dried And specialists helped design ternational development, paral- coffee, mixes, salads, egg mixes, new models of packaging, dis- leled the success of the new val. cheese dip. mixes for making ieties of fice, and helped boost milk shakes, salad, gravy, cus rolls, artificial orange juice,

artificial milk shakes and other dany products, snack foods imitation flavois, and nutritional supplements including protein

note sensing from space, according from any new varieties of sol, Many new foods now feature ng to the USDA. bcans, developed for different built in 'chef service'' and 'maid Formula feeding of livestock for more traditional crops

Important genetic discoveries and higher quality convenience boin by parthogenesis that is that items introduced in the last from the double chromosomics of decade accounted for 55 per cent Increased consumer appetites unfertilized hens' eggs Par- of items handled and 52 per cent

> Further techniques in packpathogenetic offspring arent oring and transportation have robust enough for commercial b or ht greater efficiency and economy in food handling Such The laser beam is also mak-improvements have resulted ing its mark in agriculture from general use of the bulk box, liquid nitrogen as cooling agents And in the 1960's innovations for refrigerated trucks and imwere introduced in food packag- proved equipment for an trans-

popularized in the 60's include Food laboratories have pro- aluminum containers, new lightrived from Asian grain, planted duced processes including freeze- weight steel cans, tab-pull opendiving, dehydiofieezing, vacu- eis, food pouches of combined um and spiay-foam diging of laminations of plastic, papel and foods Freeze-diled food items foil, flexible films, and plastic

> For stock control there is a new computerized checkout in-(Continued on Page 32)





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