During a metabolism study, the technician adds trace quantities of insecticides to the dairy cow's ration.

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methods for pesticides. When the organic insecticides were introduced to agriculture in the mid 1940's, the entomologist utilized fruit flies and mosquito larvae to assay residues biologically, since this was usually the most sensitive method of detection at that time.

Gradually analytical methods improved, while residue analysis remained the responsibility of entomology, until today when we find the chemist-entomologist employing the most sophisticated of analytical methods. These range from electron capture and microcoulometric gas chromatography to atomic absorption spectrometry and neutron activation analysis.

Scrubity Wider, Deeper

Not only has his research role changed, but also the subject matter. The entomologist-residue analyst now investigates minute traces of pesticides in water, soil, and occasionally air, in addition to the subjects which originally captured his attention, hay, milk and vegetables.

Yuma-Imperial Area's Cotton Costs Are Low

Do you know how much it costs to produce a pound of cotton on your farm? In Yuma and Imperial Counties it figures an average of 24.3 cents per pound. This compares with 31 cents in the San Joaquin area and 31.9 cents for the rest of Arizona.

The Yuma-Imperial figure is the lowest in the nation except the Mississippi Delta region of 23.4 cents per pound.

In 1965 a survey was made throughout the United States by USDA to measure the cost of producing upland cotton. For the nation as a whole the average was 29.3 cents.

Surveyed in the Yuma-Imperial area were 190 farms comprising 33,888 acres of cotton. A proportional sample of cotton producers was drawn from each county.

— James Hazlitt, Yuma County Agent

Cochise County
KAWT, Douglas — 6:15 a.m. Mon. through Fri. 12:20 p.m. Monday through Friday
KHIL, Willcox — Mon. thru Fri., 6:05 a.m.

Coconino County
KCLS, Flagstaff — Tues. and Thurs., 8:45 a.m.
KCLS, Flagstaff (Home Agent) — Wed., 10:15 a.m.

Gila County
KIKO, Globe-Miami Monday, 12:45 p.m.

Graham County
KATO, Safford—Sat., 9:30 a.m. Mon. thru Fri., 12:45 p.m. (daily)

Maricopa County
KTAR, Phoenix—Mon. thru Fri., 5:55 a.m.
KOY, Phoenix—Fri., 5:40 a.m.
KOY, Phoenix—Sunday Garden Club of The Air, 8:35 a.m.
KPHO, Phoenix—Mon., Cotton Report, 12:40 p.m.
KPHO, Phoenix—Thurs., Dairy and Livestock Report, 12:40 p.m.
KUDP, Phoenix—Mon. thru Fri., 5:30 a.m. and 12:30 p.m.

Mohave County
KAAA, Kingman—Mon., 9:06 a.m. (Extension Home Economist)

Navajo County
KDFJ, Holbrook — Tues., 12:15 to 12:30 p.m.
KINO, Winslow — Sat., 12:15 to 12:30 p.m.

Pinal County
KPIN, Case Grande—Mon. thru Sat., 6:55 a.m.; Mon and Fri., 9:30 a.m.; Tues., Thurs. 11:30 a.m. on Monday and Wednesday and Sat., 12:20 p.m.

Yavapai County
KYCA, Prescott — Mon., Wed., Thurs. and Fri., 3:45 p.m.
KNOT, Prescott — Mon., Wed. and Fri., 6:25 a.m.
KVIO, Cottonwood—Mon. and Fri., 8:15 a.m.

Yuma County
KVOY, Yuma — Mon. thru Fri., 5:45 a.m.
KYUM, Yuma — Tues., Thurs. and Sat., 6:25 a.m.
KYUM, Yuma — Saturday, 4-H Program, 10:05 a.m.