



Ethiopia Awash river water supply, Irrigation cotton field, zero cost of water, gravity force

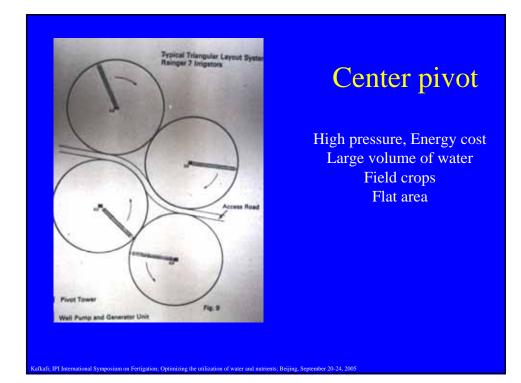


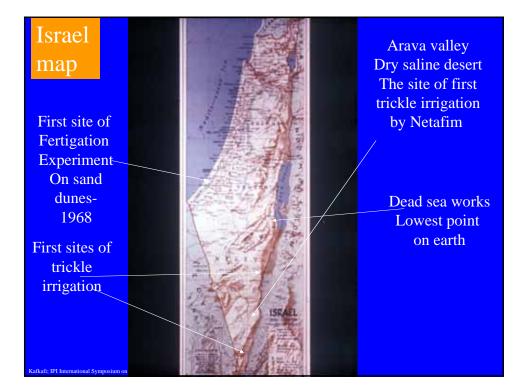










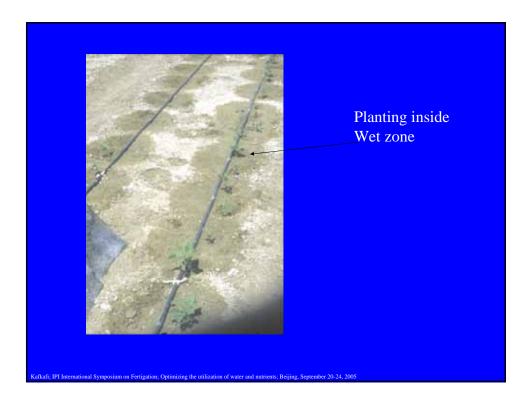










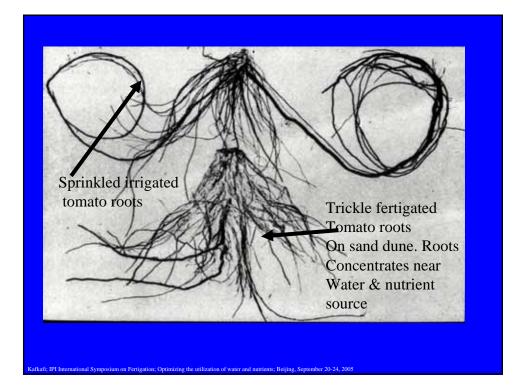


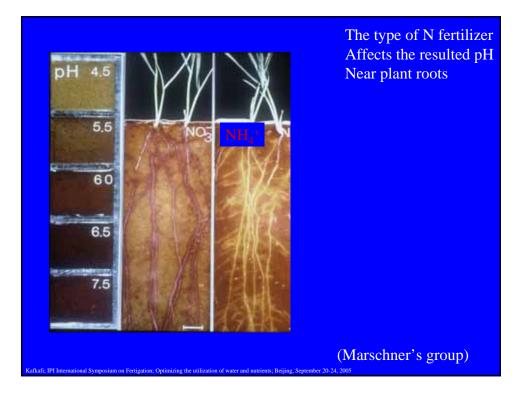


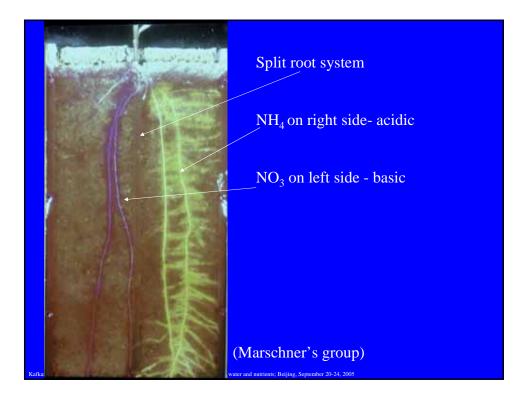


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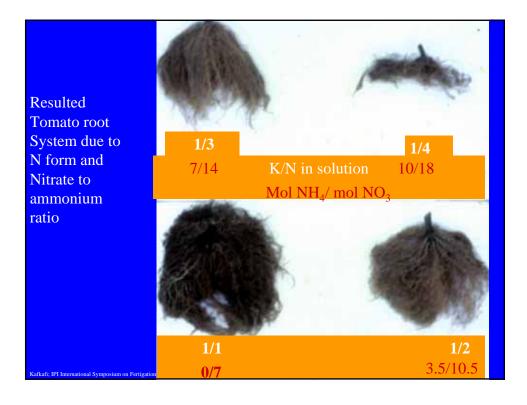


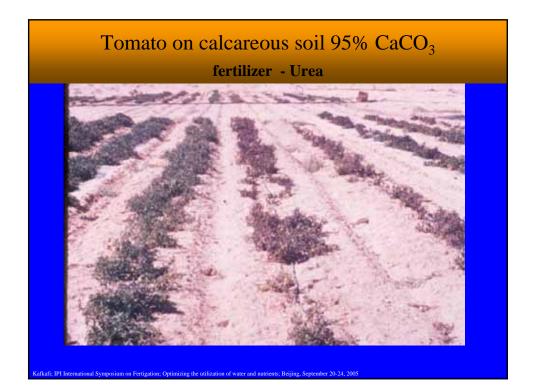








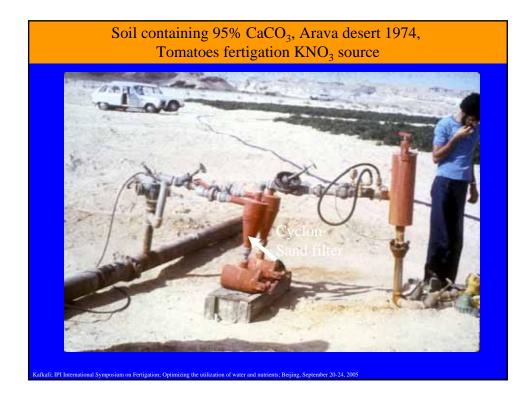


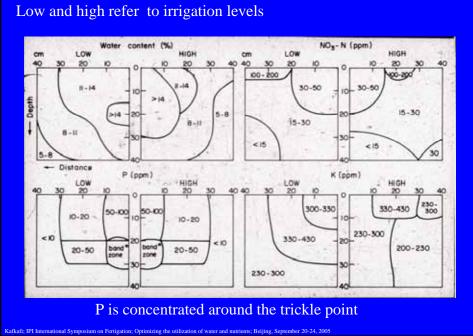


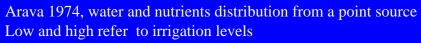
Soil containing 95% lime, Arava desert 1974, Tomatoes fertigation KNO3 source

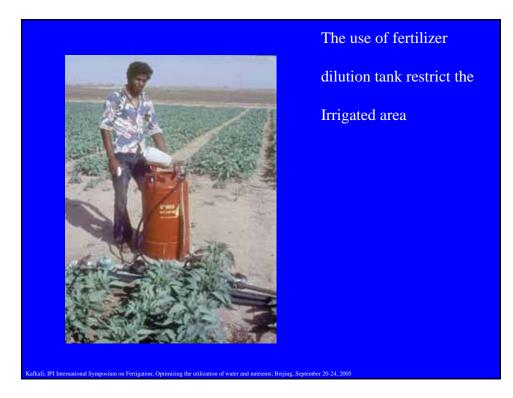
(picture taken by Prof. K. Mengel)



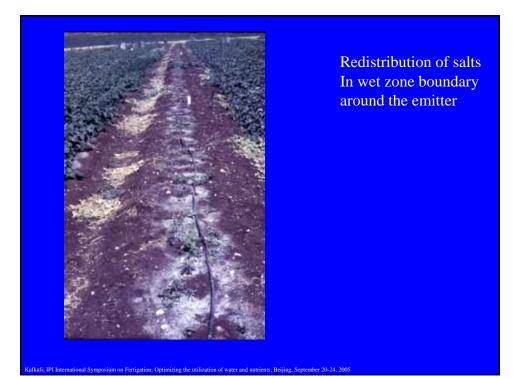








<section-header>Devices for fertigationImage: Stress for fertigationIm

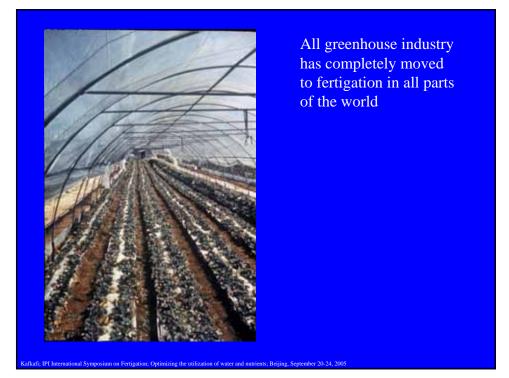




Fertigation under plastic reduce salt and accumulation and reduce weed infestation







Fertigation in the USA

California, Florida, Texas, Georgia and Hawaii, account for over 90% of the of the total USA area under MIS,

California and Florida account for more than 80%,
In Florida, over 200,000 ha are micro irrigated, the majority of this area is for the irrigation of citrus,
More than 95 % of Florida strawberry growers use drip irrigation, and most of those fertigated,
Among citrus growers in Florida, most have

converted to MIS, but a smaller percentage fertigated

Fertigation in Spain

MIS size is 563,000 ha (17% of total irrigated land),

rtigation; Optimizing the utilization of water and nutrients; Beijing, September 20-2-

about 8% (40,000 ha) are greenhouses,

i; IPI International Symposium on Fertigation; Optimizing the utilization of water and nutrients; Beijing, September 20-

Spain is the 2nd largest market in the world for MIS, and has a great potential for development,

Fertigation in Spain - Almeria case

Driving force: marginal soils, water shortage

Problems: lack of water, unfavourable climate conditions

Poor rocky soils were replaced by imported soil, consisting of:layer of 10 cm beach sand overlaying a 2 cm deep manure layer resting over a heavy clay textured soil mined in the vicinity of the region. Fertigation now is 100% of area.

ng the utilization of water and nutrients; Beijing, Se







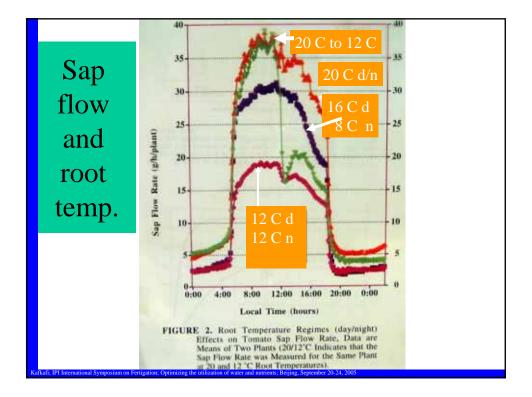


Revadim - recycled water reservoir 2002

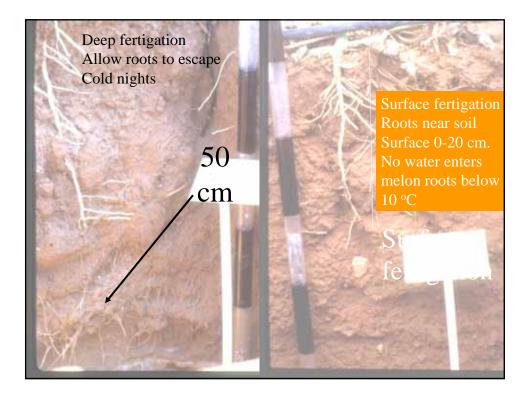


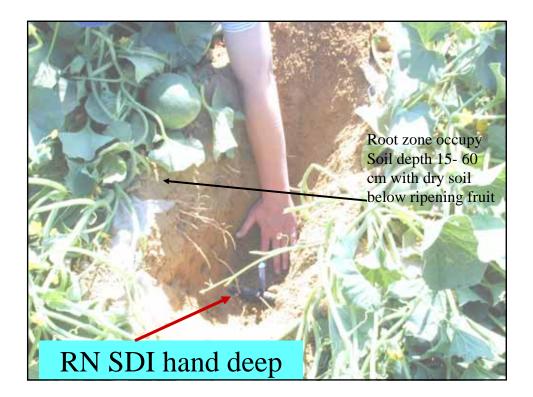


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Conclusions

A global acceptance of trickle irrigation

Possibility to grow crops in deserts

Future expansion in small farmer fields

on Fertigation; Optimizing the utilization of water and nutrients; Beijing, September 20-24, 200

Fertigation need attention by industry And training of field advisers To match plant physiology to daily feeding