





Gederal Office for Agriculture FOAG
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Incentives for the Efficient Use of Natural Resources in the Swiss Agricultural Policy

Harald Menzi, Univ. of Applied Sci., Dep. of Agricultural, Forestry and Food Science Eva Wyss, Federal Office for Agriculture FOAG

Beat Achermann, Federal Office for the Environment FOEN

Nutrient aspects in Swiss agricultural policy step 1

- Since 1994 direct payment program with strong focus on reduced environmental impact and more animal welfare
- N and P balance have led to improved nutrient efficiency:
 - Mineral fertilizer use: N –25%
 - Manure nutrients: N 5% N
 - no decrease in yields
 - Antropogenic NH3 emissions decreased by 13% since 1990
 - Farmers awareness for good manure management has increased considerably
- Manure covers currently approx. 70% of N fertilizer use

Implementation of nutrient balance restrictions

- Every farm has to calculate the N and P balance with the tool "Suisse-Balance": input has to be balanced with output.
- Balance locally checked; random examination by Federal authorities
- All manure movements between farms have to be recorded.
- In general good compliance

Resource programs (step 2)

- Since 2008 voluntary programs for additional measures with special relevance for the environment
- 24/26 Cantons plan are implementing program
 - Chose strategy and measures to include (17 programs with NH₃ measures)
 - Set clear quantitative targets: what should be achieved
 - Monitoring and assessment program
 - Six year duration
 - 20% Cantonal contribution to incentive payment (80% Federal contribution)
- Farmers can apply to join program
 - Fixed level of additional incentive payment (e.g. CHF/ha)
 - Obligation to participate until end of program
 - Obligation to continue with measures after end of the program

New: Resource Efficiency Incentives step 3

- Starting in 2014 the Cantonal resource programs will be complemented by Federal Resource Efficiency Incentives
 - New programs launched by Federal Government (100% of payments)
 - Preparation and implementation simpler and more efficient than in present programs
 - Farmers in the whole country can subscribe for same measures
 - Contributions for restricted time

Aims

- Enhance the sustainable use of natural resources (soil, water, air)
- Improve efficiency of use of production inputs (nitrogen, phosphorous, pesticides, energy)
- Contribution to achieve NH₃ emission reductions commitments according to revised Gothenburg Protocol (-8%).

Measures to be included

- Air: low emission manure spreading techniques
- Soil: Conservation tillage
- Water: high precision pesticide application







Example low emission manure spreading

- Trailing hose, trailing shoe, slot injection deep injection
- CHF 30.- per ha and application; max 4 applications per year
- No payments from 15 November to 15 February
- Reduced N losses accounted for in N balance: +3 kg N/ha/application