22. SKIFTEPLAN

FAIRWAY partner: Oyvind Kaste (NIVA, NO)

Brief description	
Skifteplan is the most commonly used farm level DST for fertiliser application (N and P) on agricultural fields in Norway. The program calculates optimal fertilization rates, to avoid excess N and P in soils and runoff. Also used to keep track of what is grown on the fields year by year and what other treatments / measures implemented; plant protection, soil cultivation, etc. Used by farmer and agricultural advisers.	

Contaminants covered (e.g. nitrate, pesticides etc.)	N, P, Ca, water (irrigation)
Intended end users (e.g. farmer, water quality manager, policy maker)	Farmers, agricultural advisers
Level of expertise and/or training required	Farmers and agricultural advisers
Geographical resolution (e.g. field, catchment, national)	Field
Temporal resolution (e.g. daily, annual, long-term).	Annual
Real-time component (e.g. live weather data, soil moisture data feeds etc.)	No, but includes a water balance componenet
Number and type of mitigation measures included	N and P balance
Platform (e.g. paper-based tool, phone app, bespoke software).	Software (licenced product) can be downloaded from Agromatic's webpage: http://www.agromatic.no/skifteplan.html
Frequency of updates	Last update: 2016
Cost/availability	Licenced, cost not known
Number of users or number of copies distributed/ downloaded/purchased	Information not available
Links to demo material and other relevant information (e.g. user guides).	http://www.agromatic.no/skifteplan.html
Additional comments	

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Input data required to run the DST	Field and crop information, soil type, N and P content, fertilizer information
Outputs (including links to water quality and economic or financial aspects)	Optimal fertilization rates
Age/provenance of supporting data used to develop the DST	First DOS-version developed in 1988
Country-specific calibration or data requirements (including restrictions on use)	Adapted for Norwegian conditions
Details of validation and testing	Information not available
Date developed/released (or planned release date)	1996 / most recent version from 2016
Author/developer names and affiliations	Not known
Member state(s) where developed	NO (Norway)
Member state(s) where currently used	NO (Norway)
Key publication references	http://www.agromatic.no/skifteplan.html

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Any other useful information (e.g. screenshots of DST input/outputs)

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