

# HYPE variable descriptions

This section gives an overview over the most common used variables in HYPE. For a complete description of variables see [FileReference.pdf](#) available at [HYPE Open Source Community](#).

## Input variables

## Output variables

List of variables for which output can be written from the HYPE-model. The type column states the type of mean period calculation. AVE means that the variable is averaged over the time step or period. SUM means that the variable is summed over the time step or period.

Variable	Explanation	Type	More information
COUT	Simulated outflow from an olake (m3/s)	AVE	<a href="#">Routing</a>
CPRC	Input precipitation data adjusted according to HYPE parameters.	SUM	<a href="#">Temperature and precipitation</a>
CRUN	Calculated runoff from land (mm)	SUM	<a href="#">Land routines</a>
CROS	Simulated surface runoff (mm)	SUM	<a href="#">Land routines</a>
CTMP	Input data on temperature 2 meters above the ground adjusted according to HYPE parameters.	AVE	<a href="#">Temperature and precipitation</a>
EPOT	Potential evaporation.	SUM	<a href="#">Evaporation</a>
EVAP	Actual evaporation.	SUM	<a href="#">Evaporation</a>
IRRA	Applied irrigation water to the soil (m3).	SUM	<a href="#">Irrigation</a>
PREC	Precipitation (mm).	SUM	<a href="#">Temperature and precipitation</a>
SDEP	Snow depth for the landarea of the subbasin.	AVE	<a href="#">Snow routines</a>
SMDF	Soil moisture deficit to field capacity of upper two soil layers (mm)	AVE	<a href="#">Land routines</a>
SMRZ	Soil moisture storage in the root zone.	AVE	<a href="#">Land routines</a>
SRFF	Soil moisture in the root zone (upper two soil layers) (not including standing water) as fraction of the field capacity (wcf).	AVE	<a href="#">Land routines</a>
TEMP	Temperatur (degrees celsius).	AVE	<a href="#">Temperature and precipitation</a>