

# Header check for ALFAM2 data

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## Summary

Checks that all column headers are described.

## Header check

```
ihead <- read.csv('../headers/interval-level_variables.csv')
phead <- read.csv('../headers/plot-level_variables.csv')

idat <- data.table::fread('../data-output/03/ALFAM2_interval.csv.gz')
pdat <- data.table::fread('../data-output/03/ALFAM2_plot.csv.gz')
```

Missing in plot-level header file.

```
names(pdat)[!names(pdat) %in% phead$Name]
```

## [1]	"e.4"	"e.6"	"e.12"
## [4]	"e.24"	"e.48"	"e.72"
## [7]	"e.96"	"e.168"	"e.cum.1"
## [10]	"e.cum.4"	"e.cum.6"	"e.cum.12"
## [13]	"e.cum.24"	"e.cum.48"	"e.cum.72"
## [16]	"e.cum.96"	"e.cum.168"	"e.cum.final"
## [19]	"e.rel.4"	"e.rel.6"	"e.rel.12"
## [22]	"e.rel.24"	"e.rel.48"	"e.rel.72"
## [25]	"e.rel.96"	"e.rel.168"	"soil.water.v"
## [28]	"air.temp.1"	"air.temp.4"	"air.temp.12"
## [31]	"air.temp.24"	"air.temp.48"	"air.temp.72"
## [34]	"air.temp.96"	"air.temp.168"	"soil.temp.1"
## [37]	"soil.temp.4"	"soil.temp.12"	"soil.temp.24"
## [40]	"soil.temp.48"	"soil.temp.72"	"soil.temp.96"
## [43]	"soil.temp.168"	"soil.temp.surf.1"	"soil.temp.surf.4"
## [46]	"soil.temp.surf.12"	"soil.temp.surf.24"	"soil.temp.surf.48"
## [49]	"soil.temp.surf.72"	"soil.temp.surf.96"	"soil.temp.surf.168"
## [52]	"rad.1"	"rad.4"	"rad.12"
## [55]	"rad.24"	"rad.48"	"rad.72"
## [58]	"rad.96"	"rad.168"	"wind.1"
## [61]	"wind.4"	"wind.12"	"wind.24"
## [64]	"wind.48"	"wind.72"	"wind.96"
## [67]	"wind.168"	"wind.2m.1"	"wind.2m.4"
## [70]	"wind.2m.12"	"wind.2m.24"	"wind.2m.48"
## [73]	"wind.2m.72"	"wind.2m.96"	"wind.2m.168"
## [76]	"rain.4"	"rain.6"	"rain.12"

## [79]	"rain.24"	"rain.48"	"rain.72"
## [82]	"rain.96"	"rain.168"	"rain.rate.4"
## [85]	"rain.rate.6"	"rain.rate.12"	"rain.rate.24"
## [88]	"rain.rate.48"	"rain.rate.72"	"rain.rate.96"
## [91]	"rain.rate.168"	"rh.1"	"rh.4"
## [94]	"rh.12"	"rh.24"	"rh.48"
## [97]	"rh.72"	"rh.96"	"rh.168"

No longer used—remove from plot-level header file.

```
phead$Name[!phead$Name %in% names(pdat)]
```

```
## character(0)
```

Missing in interval-level header file.

```
names(idat)[!names(idat) %in% ihead$Name]
```

```
## character(0)
```

No longer used—remove from interval-level header file.

```
ihead$Name[!ihead$Name %in% names(idat)]
```

```
## character(0)
```

Note that `e.6` and similar variables are described as `e.x` in the description columns.