

## Import format genotypes & pedigree for NAV

### Genotype file format

Please notice that NAV only accepts genotypes in Illumina TOP format.

NAV prefers the following variables in the file:

```
[Header]
GSGT Version      xxxxx
Processing Date   xxxxxxxx
Content           xxxxxx
Num SNPs          xxxx
Total SNPs       xxxx
Num Samples      xxx
Total Samples    xxx
```

[Data]

```
SNP Name      Sample ID      Allele1 - Top  Allele2 - Top  GC Score      B Allele Freq  Log R Ratio
```

But as a minimum the following information is required:

```
SNP Name
Sample ID
Allele1 - Top
Allele2 - Top
```

Where SampleID is InterbullID (BBBNNNSxxxxxxxxxxxx)

InterbullID consisting of:

```
BBB          = 3 letter breed code
NNN          = 3 letter nation code of birth country
S            = Sex code (M or F)
xxxxxxxxxxx  = 12 letter/digit animal ID
```

### Example:

```
[Header]
GSGT Version  1.9.4
Processing Date      3/24/2016 2:53 PM
Content           GGPv3_LICFull_E.bpm
Num SNPs         26151
Total SNPs       32185
Num Samples      4
Total Samples    22
File             3 of 4
[Data]
SNP Name      Sample ID      Allele1      Allele2      GC Score      Log R      B Allele
              - Top          - Top          Ratio        Freq
ARS-BFGL-BAC-10975  HOLDNKF006123600010  A            G            0.9440        0.1915      0.5376
ARS-BFGL-BAC-11025  HOLDNKF006123600010  A            C            0.8988        -0.0262     0.4882
```

## Pedigree-format

For importing pedigree NAV uses the Interbull 200-format for pedigree files and requires 3 generations – explanation to be found below and further here <http://www.interbull.org/ib/file200>

## File Format 200 for Dairy Pedigree

Starting position	Field	Format	Example
1	Record type <sup>1</sup>	Character 3	200
	International ID of ANIMAL		
5	Breed of animal <sup>2</sup>	character 3	HOL
8	Country of first registration of animal <sup>3</sup>	character 3	CAN
11	Sex	character 1	M
12	ID number of animal <sup>4</sup>	character 12	000000A12345
	International ID of Sire of ANIMAL		
25	Breed of sire of animal	character 3	HOL
28	Country of first registration of sire of animal <sup>3</sup>	character 3	CAN
31	Sex	character 1	M
32	ID number of sire of animal <sup>4</sup>	character 12	556912367589
	International ID of Dam of ANIMAL		
45	Breed of dam of animal <sup>2</sup>	character 3	HOL
48	Country of first registration of dam of animal <sup>3</sup>	character 3	CAN
51	Sex	character 1	F
52	ID number of dam of animal <sup>4</sup>	character 12	123569874521
65	Birth date of animal (YYYYMMDD)	integer 8	19870215
74	Status of animal <sup>5</sup>	Integer 2	10
77	Birth date of first AI daughters (YYYYMMDD)	Integer 8	19890314
86	Name of animal <sup>6</sup>	character 30	Cantarello
	National ID of ANIMAL		
117	Breed of animal <sup>2</sup>	character 3	HOL
120	Country	character 3	CAN
123	Sex	character 1	M
124	ID number of animal <sup>4</sup>	character 12	000000A12345
137	Country sending information	character 3	CAN
Character encoding: UTF-8			

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