### Nutri-Score

How to bring Nutri-Score in line with dietary recommendations for cheeses, oils and fats without changing the algorithm

# Current outcomes in Nutri-Score for cheeses and oils/fats are not in line with food based dietary recommendations

#### OILS

Olive oil is a preferred oil in food based dietary recommendations. All oils practically score D.

# Olive and palm oil | Thirthood value | Thirthcore | Thir

#### **CHEESE**

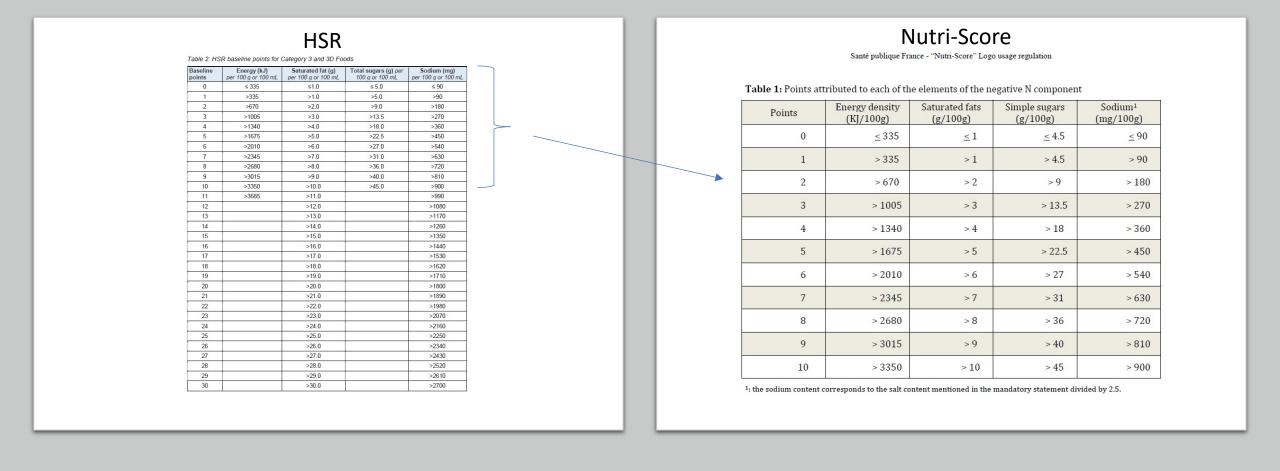
Lower fat cheeses are the preferred cheeses in food based dietary recommendations. All semi-hard cheeses (including gouda 10+, 20+ 30+) score D. No cheese with calcium content above 325 mg/100g with an A or B score.



Nutri-score is not sensitive for products containing saturated fat above 10 g per 100g or sodium above 900 mg per 100g.

The Nutri-Score uses the same Algorithm as HSR, based on FSA-NDS, but HSR outcomes are more in line with food based dietary guidelines

 Table of Nutri-Score is part of HSR table, only for first 10 rows, resulting in the loss of sensitivity for saturated fat and sodium



## How to bring Nutri-Score in line with food based dietary recommendations, without changing the Algorithm:

Use ALL the rows of HSR table for categories Cheeses, Oils/fats (not cream)

Table 2: HSR baseline points for Category 3 and 3D Foods

| Baseline<br>points | Energy (kJ)<br>per 100 g or 100 mL | Saturated fat (g)<br>per 100 g or 100 mL | Total sugars (g) per<br>100 g or 100 mL | Sodium (mg)<br>per 100 g or 100 mL |
|--------------------|------------------------------------|--|---|------------------------------------|
| 0                  | ≤ 335                              | ≤1.0                                     | ≤ 5.0                                   | ≤ 90                               |
| 1                  | >335                               | >1.0                                     | >5.0                                    | >90                                |
| 2                  | >670                               | >2.0                                     | >9.0                                    | >180                               |
| 3                  | >1005                              | >3.0                                     | >13.5                                   | >270                               |
| 4                  | >1340                              | >4.0                                     | >18.0                                   | >360                               |
| 5                  | >1675                              | >5.0                                     | >22.5                                   | >450                               |
| 6                  | >2010                              | >6.0                                     | >27.0                                   | >540                               |
| 7                  | >2345                              | >7.0                                     | >31.0                                   | >630                               |
| 8                  | >2680                              | >8.0                                     | >36.0                                   | >720                               |
| 9                  | >3015                              | >9.0                                     | >40.0                                   | >810                               |
| 10                 | >3350                              | >10.0                                    | >45.0                                   | >900                               |
| 11                 | >3685                              | >11.0                                    |   | >990                               |
| 12                 |                                    | >12.0                                    |   | >1080                              |
| 13                 |                                    | >13.0                                    |   | >1170                              |
| 14                 |                                    | >14.0                                    |   | >1260                              |
| 15                 |                                    | >15.0                                    |   | >1350                              |
| 16                 |                                    | >16.0                                    |   | >1440                              |
| 17                 |                                    | >17.0                                    |   | >1530                              |
| 18                 |                                    | >18.0                                    |   | >1620                              |
| 19                 |                                    | >19.0                                    |   | >1710                              |
| 20                 |                                    | >20.0                                    |   | >1800                              |
| 21                 |                                    | >21.0                                    |   | >1890                              |
| 22                 |                                    | >22.0                                    |   | >1980                              |
| 23                 |                                    | >23.0                                    |   | >2070                              |
| 24                 |                                    | >24.0                                    |   | >2160                              |
| 25                 |                                    | >25.0                                    |   | >2250                              |
| 26                 |                                    | >26.0                                    |   | >2340                              |
| 27                 |                                    | >27.0                                    |   | >2430                              |
| 28                 |                                    | >28.0                                    |   | >2520                              |
| 29                 |                                    | >29.0                                    |   | >2610                              |
| 30                 |                                    | >30.0                                    |   | >2700                              |

No longer make adjustments in Nutri-Score for Cheeses and Oils/fats:

- Cheeses: P points can always be distracted from N points
- Oils/fats: saturated fat is judged on % of total fat
   But use the normal algorithm



| Points | Ratio of<br>total saturated fatty<br>acids/lipids (%) |  |  |  |  |  |  |  |  |
|--------|---|--|--|--|--|--|--|--|--|
| 0      | < 10  |  |  |  |  |  |  |  |  |
| 1      | < 16  |  |  |  |  |  |  |  |  |
| 2      | < 22  |  |  |  |  |  |  |  |  |
| 3 /    | ~28   |  |  |  |  |  |  |  |  |
| 4      | < 34  |  |  |  |  |  |  |  |  |
| 5      | < 40  |  |  |  |  |  |  |  |  |
| 6      | 46  |  |  |  |  |  |  |  |  |
| 7      | £82   |  |  |  |  |  |  |  |  |
| 8      | < 58  |  |  |  |  |  |  |  |  |
| 9      | < 64  |  |  |  |  |  |  |  |  |
| 10     | ≥ 64  |  |  |  |  |  |  |  |  |

Use the HSR scores of cat 3D for Cheeses, Oils/fats (not cream) to allocate a Nutri-score

Table 7: HSR scores by category, with final Heath Star Rating

| HSR rating | Cat. 1                         | Cat. 1D | Cat. 2                         | Cat. 2D | Cat. 3  | Cat. 3D |
|------------|--------------------------------|---------|--------------------------------|---------|---------|---------|
|            |                                |         | Eligible fruits and vegetables | ,//     |         |         |
| 5          | Water                          | ≤-2     | ≤-11                           | ≤-2     | ≤13     | ≤24     |
| 4.5        | Unsweetened<br>Flavoured water | -1      | -107                           | -1 - 0  | 14 – 16 | 25 – 26 |
| 4          | ≤0                             | 0       | -62                            | 1-2     | 17 – 20 | 27 – 28 |
| 3.5        | 1                              | 1       | -1 - 2                         | 3       | 21 – 23 | 29 - 30 |
| 3          | 2-3                            | 2       | 3-6                            | 4 – 5   | 24 – 27 | 31      |
| 2.5        | 4-5                            | 3       | 7 – 11                         | 6 – 7   | 28 - 30 | 32 – 33 |
| 2          | 6-7                            | 4       | 12 – 15                        | 8       | 31 – 34 | 34 – 35 |
| 1.5        | 8 – 9                          | 5       | 16 – 20                        | 9 – 10  | 35 – 37 | 36 – 37 |
| 1          | 10 – 11                        | 6       | 21 – 24                        | 11 – 12 | 38 – 41 | 38 – 39 |
| 0.5        | ≥12                            | ≥7      | ≥25                            | ≥13     | ≥42     | ≥40     |

| Attributio                | on des couleurs      |                           |             |
|---------------------------|----------------------|---------------------------|-------------|
| Aliments solides (points) | Boissons<br>(points) | Oils, fats<br>and cheeses | NUTRI-SCORE |
| Min à -1                  | Eau                  | ≤ 24                      | ABCDE       |
| 0 à 2                     | ≤1                   | 25 - 30                   | ABCDE       |
| 3 à 10                    | 2 à 5                | 31 - 33                   | ABCDE       |
| 11 à 18                   | 6 à 9                | 34 - 39                   | ABCDE       |
| <u>&gt;</u> 19            | ≥ 10                 | ≥ 40                      | ABCDE       |
|                           |                      |                           |             |

# Outcomes: are in line with food based dietary recommendations

Cheeses: lower fat and salt options

- Mozzarella
- Gouda 10+, 20+,
   30+, lower in salt
- Camembert 30+

- Emmenthaler
- Gouda 45+
- Brie 50+

- Emmenthaler
- Edammer 40+
- Gouda 48+, lower in salt
- Parmesan
- Gruyere

- Cheddar
- Gouda 48+,old
- Kernhemmer 60+
- Gorgonzola
- Roquefort











## Outcomes: are in line with food based dietary recommendations

- Oils/fats: lower saturated fat options
- For cream the truncated table and score according to solid foods is used: resulting in a D score for full fat dairy cream
- Sunflower oil
- Corn oil
- Rapeseed oil
- Low fat margarine<17g safa</li>

- Peanut oil
- Soya oil
- Olive oil
- Margarine,<24g safa</li>



- Butter, unsalted
- Margarine, >24 g safa, unsalted
- Butter salted
- Margarine, > 24 g safa, salted
- Palm oil
- Coconut oil











Appendices with the calculations

#### Cheeses

| Fooditem                          | En(k.▼ | SFA ( 🔻 | Sugal 🔻 F | rotei 🕶 | Fibre 🔻 | Na (m ▼ | Ca (m ▼ | En (kJ)_ S | 6FA (g)_ 9 | Bugar (ç Na | e (mg)_to | ot_neg_ | Fibre (g) Pro | otein ( to | t_pos_l So | core_H NutriSc | ore_HSR |
|-----------------------------------|--------|---------|-----------|---------|---------|---------|---------|------------|------------|-------------|-----------|---------|---------------|------------|------------|----------------|---------|
| Cheese 10+                        | 787    | 4,2     | 0,2       | 32,2    |         | 865     | 1050    | 2          | 4          | 0           | 9         | 15      | 0             | 12         | 12         | 15 A           |         |
| Cheese 20+                        | 1031   | 7,8     | 0,0       | 34,5    | 0,0     | 718     | 1059    | 3          | .7         | 0           | 7         | 17      | 0             | 12         | 12         | 17 A           |         |
| Cheese Mozzarella made from cow's | 1089   | 11,7    | 4,9       | 20,0    | 0,0     | 200     | 403     | 3          | 11         | 0           | 2         | 16      | 0             | 9          | 9          | 16 A           |         |
| Cheese Camembert 30+              | 929    | 9,1     | 0,0       | 24,0    | 0,0     | 900     | 600     | 2          | 9          | 0           | 9         | 20      |               | 10         | 10         | 20 A           |         |
| Cheese 30+ average                | 1203   | 12,1    | 0,0       | 30,4    | 0,0     | 689     | 1046    | 3          | 12         | 0           | 7         | 22      |               | 12         | 12         | 22 A           |         |
| Cheese Camembert 45+              | 1271   | 14,9    | 0,0       | 25,0    | 0,0     | 790     | 600     | 3          | 14         | 0           | 8         | 25      | 0             | 11         | 11         | 25 B           |         |
| Cheese Emmenthaler                | 1608   | 20,1    | 0,0       | 29,0    | 0,0     | 450     | 1020    | 4          | 20         | 0           | 4         | 28      | 0             | 12         | 12         | 28 B           |         |
| Cheese 45+                        | 1483   | 17,8    | 0,0       | 25,4    | 0,0     | 720     | 830     | 4          | 17         | 0           | 7         | 28      | 0             | 11         | 11         | 28 B           |         |
| Cheese Brie 50+                   | 1311   | 16,2    | 0,0       | 23,0    | 0,0     | 828     | 400     | 3          | 16         | 0           | 9         | 28      | 0             | 10         | 10         | 28 B           |         |
| Cheese Edam 40+                   | 1345   | 14,6    | 0,0       | 25,5    | 0,0     | 1032    | 896     | 4          | 14         | 0           | 11        | 29      | 0             | 11         | 11         | 29 B           |         |
| Cheese 48+ less salt average      | 1578   | 20,4    | 0,0       | 24,1    | 0,0     | 609     | 749     | 4          | 20         | 0           | 6         | 30      | 0             | 11         | 11         | 30 C           |         |
| Cheese Gouda 48+ average          | 1529   | 19,9    | 0,0       | 22,9    | 0,0     | 700     | 816     | 4          | 19         | 0           | 7         | 30      | 0             | 10         | 10         | 30 C           |         |
| Cheese Parmesan                   | 1684   | 17,6    | 0,0       | 40,0    | 0,0     | 1000    | 1000    | 5          | 17         | 0           | 11        | 33      | 0             | 13         | 13         | 33 C           |         |
| Cheese Gruyere                    | 1799   | 22,5    | 1,4       | 29,0    | 0,0     | 500     | 900     | 5          | 22         | 0           | 5         | 32      |               | 12         | 12         | 32 C           |         |
| Cheese Gouda 48+ age 4-7 mths     | 1565   | 20,1    | 0,0       | 22,5    | 0,0     | 771     | 826     | 5          | 20         | 0           | 8         | 33      | 0             | 10         | 10         | 33 C           |         |
| Cheese Old Amsterdam 48+          | 1586   | 20,5    | 0,0       | 24,2    | 0,0     | 879     | 740     | 5          | 20         | 0           | 9         | 34      | 0             | 11         | 11         | 34 D           |         |
| Cheese goat hard                  | 1644   | 21,7    | 0,1       | 22,4    | 0,0     | 757     | 806     | 5          | 21         | 0           | 8         | 34      | 0             | 10         | 10         | 34 D           |         |
| Cheese Cheddar                    | 1721   | 22,4    | 0,1       | 25,5    | 0,0     | 670     | 720     | 5          | 22         | 0           | 7         | 34      | 0             | 11         | 11         | 34 D           |         |
| Cheese Gouda 48+ age 10-12 mths   | 1719   | 22,0    | 0,1       | 24,6    | 0,0     | 875     | 871     | 5          | 22         | 0           | 9         | 36      |               | 11         | 11         | 36 D           |         |
| Cheese Kernhem 60+                | 1831   | 26,6    | 0,0       | 18,6    | 0,0     | 600     | 600     | 5          | 26         | 0           | 6         | 37      | 0             | 9          | 9          | 37 D           |         |
| Cheese Gorgonzola                 | 1486   | 20,3    | 0,1       | 19,4    | 0,0     | 1450    | 612     | 4          | 20         | 0           | 16        | 40      | 0             | 9          | 9          | 40 E           |         |
| Cheese Roquefort                  | 1478   | 20,2    | 0,0       | 19,0    | 0,0     | 1600    | 608     | 4          | 20         | 0           | 17        | 41      | 0             | 9          | 9          | 41 E           |         |

### Oils/fats

| Food item                       | En (kJ) | SFA(g) | Sugar (gl | Protein ( | Fibre (g) N | la (mg) | Ca (mg) | En (kJ)_ | SFA (g) | Sugar (gl | Na (mg) | tot_neg_ | Fibre (g) | Protein ( | tot_pos_ | Score_H NutriS | core_HSR |
|---------------------------------|---------|--------|-----------|-----------|-------------|---------|---------|----------|---------|-----------|---------|----------|-----------|-----------|----------|----------------|----------|
| Sunflower oil                   | 3687    | 10,6   |           | 0         | 0           | 0       | 0       | 11       | 10      | 0         | 0       | 2        | 0         | 0         | 0        | 21 A           |          |
| Corn oil                        | 3700    | 13,8   | 0         | 0         | 0           | 0       | 0       | 11       | 13      | 0         | 0       | 24       | 0         | 0         | 0        | 24 A           |          |
| Rapeseed oil                    | 3696    | 6,9    | 0         | 0         | 0           | 0       | 0       | 11       | 6       | 0         | 0       | 17       | 0         | 0         | 0        | 17 A           |          |
| Low fat margarine <17g safa     | 1463    | 10,6   | 0         | 0         | 0           | 191     | 0       | 1 4      | 10      | 0         | 2       | 16       | 0         | 0         | 0        | 16 A           |          |
| Peanut oil                      | 3700    | 17,3   | 0         | 0         | 0           | 0       | 0       | 11       | 17      | 0         | 0       | 28       | 0         | 0         | 0        | 28 B           |          |
| Soya oil                        | 3676    | 15,1   | 0         | 0         | 0           | 0       | 0       | 10       | 15      | 0         | 0       | 25       | 0         | 0         | 0        | 25 B           |          |
| Olive oil                       | 3700    | 14,9   | 0         | 0         | 0           | 0       | 0       | 11       | 14      | 0         | 0       | 25       | 0         | 0         | 0        | 25 B           |          |
| Margarine, <24g safa unsalted   | 2965    | 18,9   | 0         | 0         | 0           | 0       | 0       | 8        | 18      | 0         | 0       | 26       | 0         | 0         | 0        | 26 B           |          |
| Butter, unsalted                | 3033    | 53,6   | 0         | 0         | 0           | 5       | 0       | 9        | 30      | 0         | 0       | 39       | 0         | 0         | 0        | 39 D           |          |
| Margarine, >24 g safa, unsalted | 2965    | 32,3   | 0         | 0         | 0           | 7       | 0       | 8        | 30      | 0         | 0       | 38       | 0         | 0         | 0        | 38 D           |          |
| Butter salted                   | 3033    | 53,6   | 0         | 0         | 0           | 400     | 0       | 9        | 30      | 0         | 4       | 43       | 0         | 0         | 0        | 43 E           |          |
| Margarine, > 24 g safa, salted  | 2965    | 33,1   | 0         | 0         | 0           | 486     | 0       | 8        | 30      | 0         | 5       | 43       | 0         | 0         | 0        | 43 E           |          |
| Palm oil                        | 3696    | 48,8   | 0         | 0         | 0           | 0       |         | 11       | 30      | 0         | 0       | 4        | 0         | 0         | 0        | 41 E           |          |
| Coconut oil                     | 3665    | 83,7   | 0         | 0         | 0           | 0       | C       | 10       | 30      | 0         | 0       | 40       | 0         | 0         | 0        | 40 E           |          |