# Two-Variable Correlation

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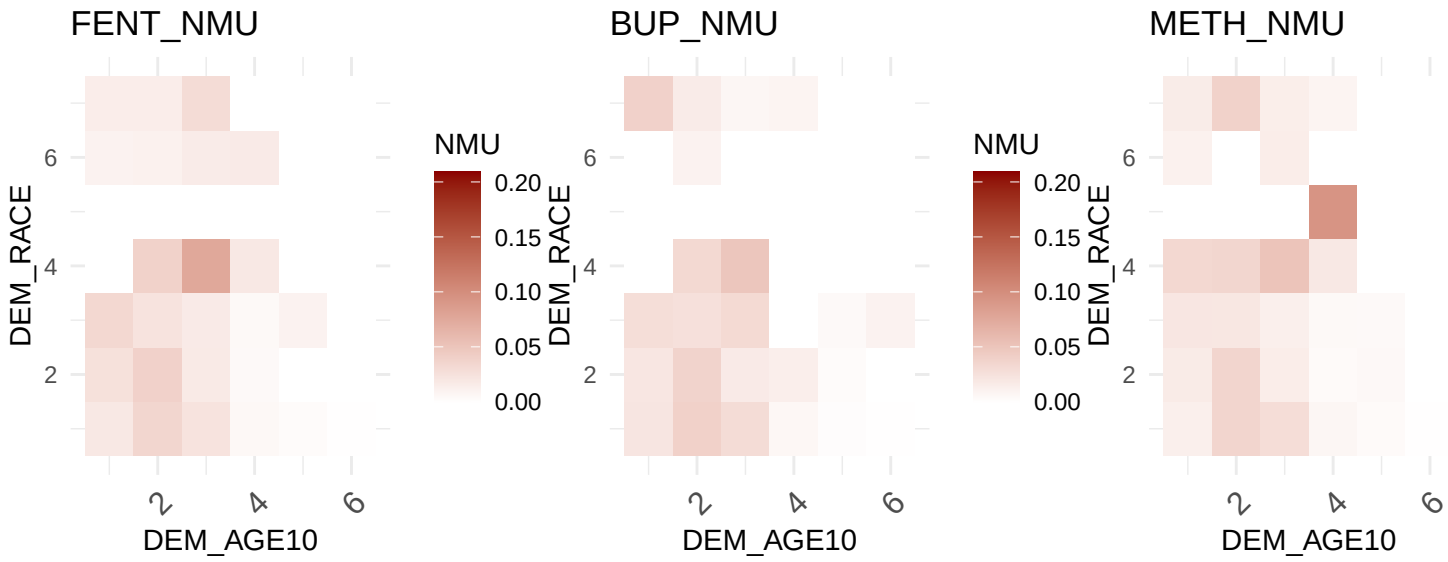
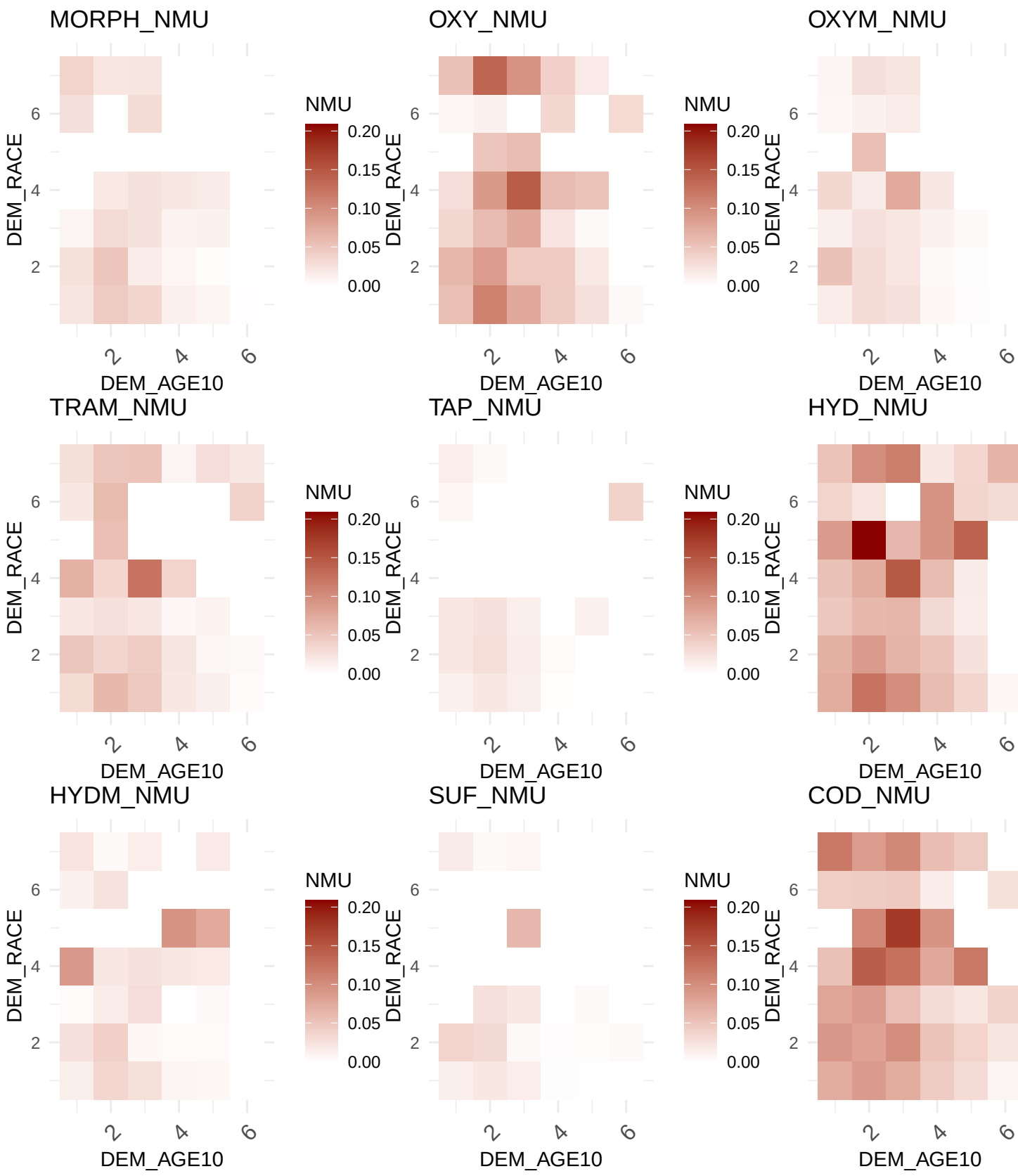
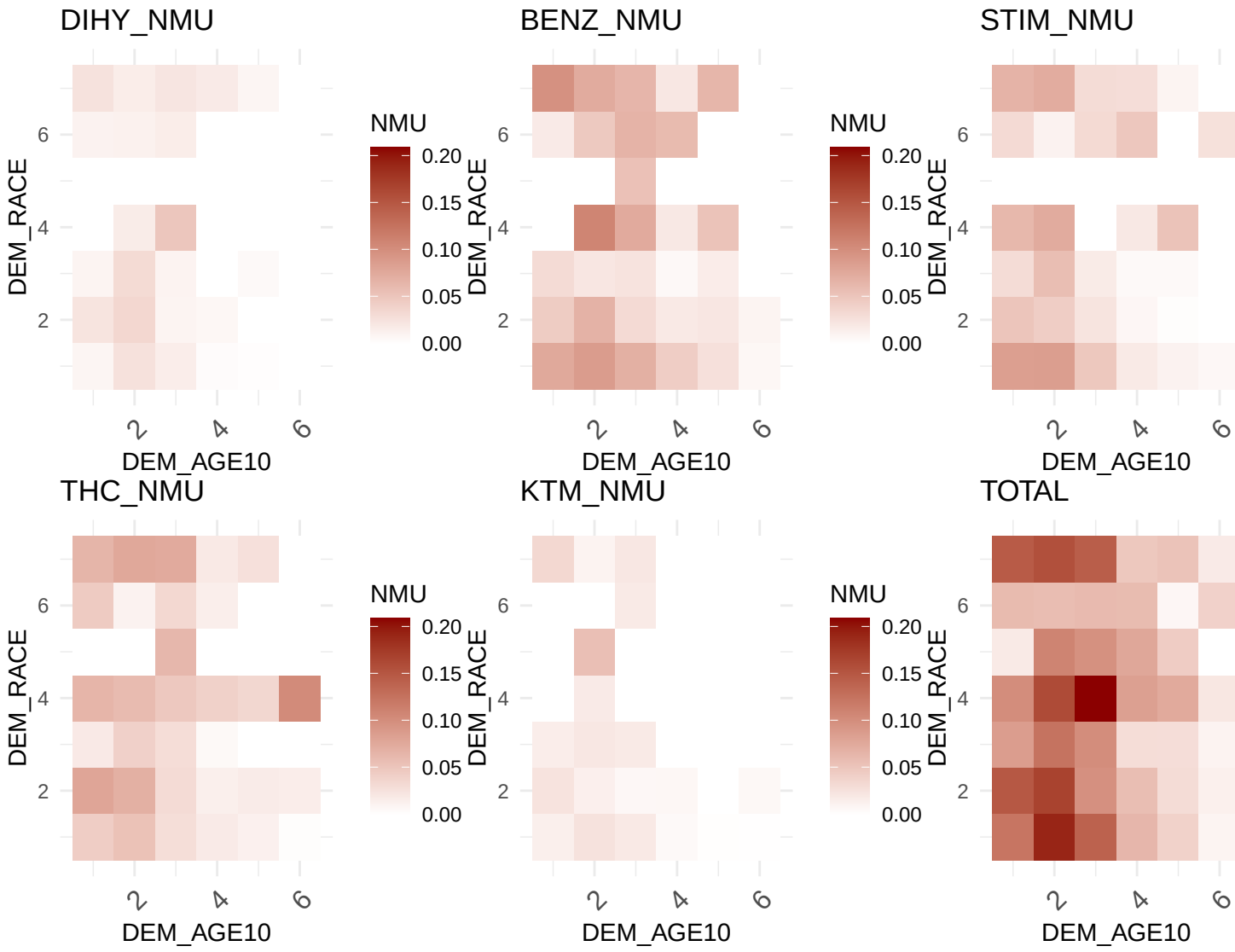
## Age and Race

```
source("two_var_relationship.R")
two_var_relationship("DEM_AGE10", "DEM_RACE")
```

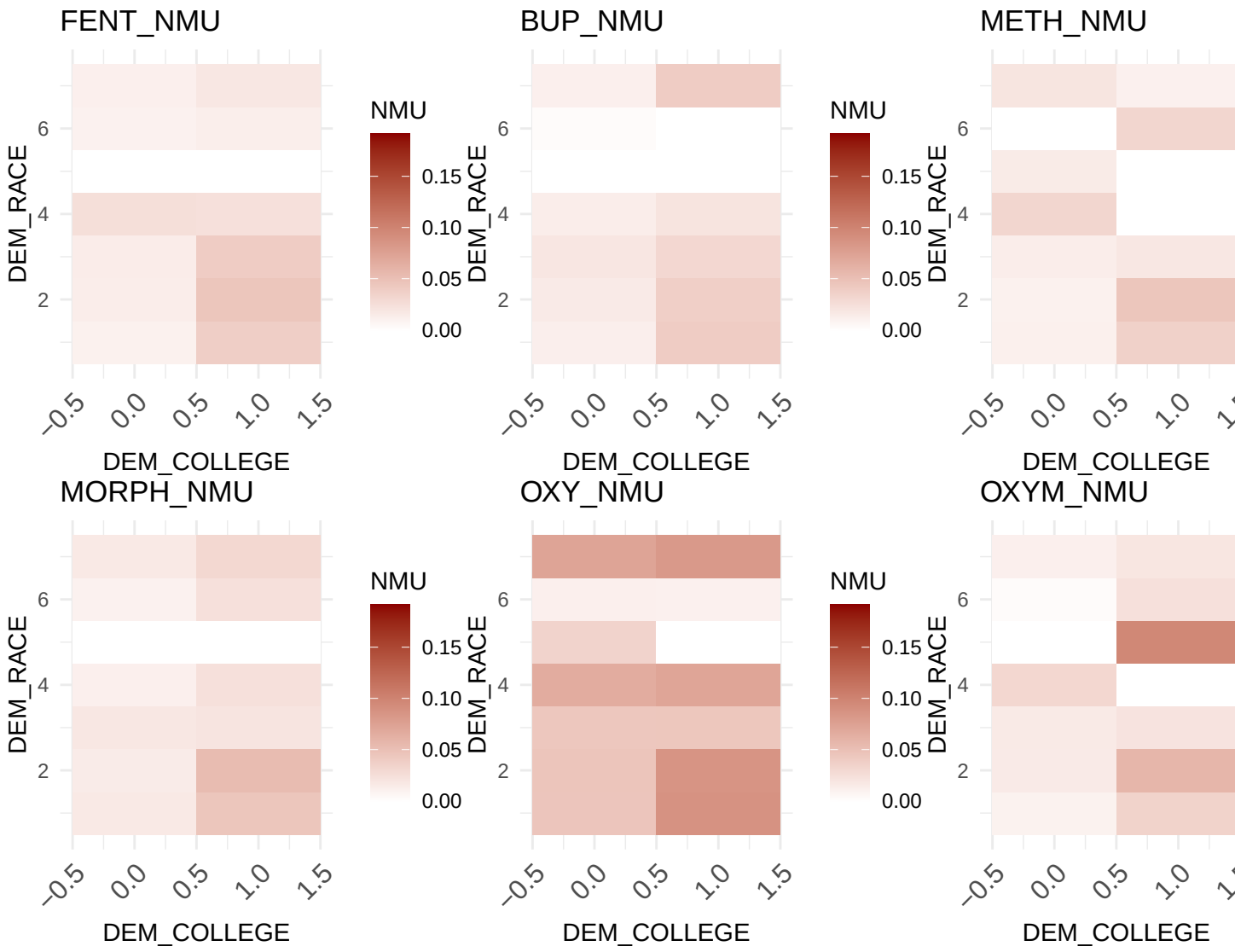


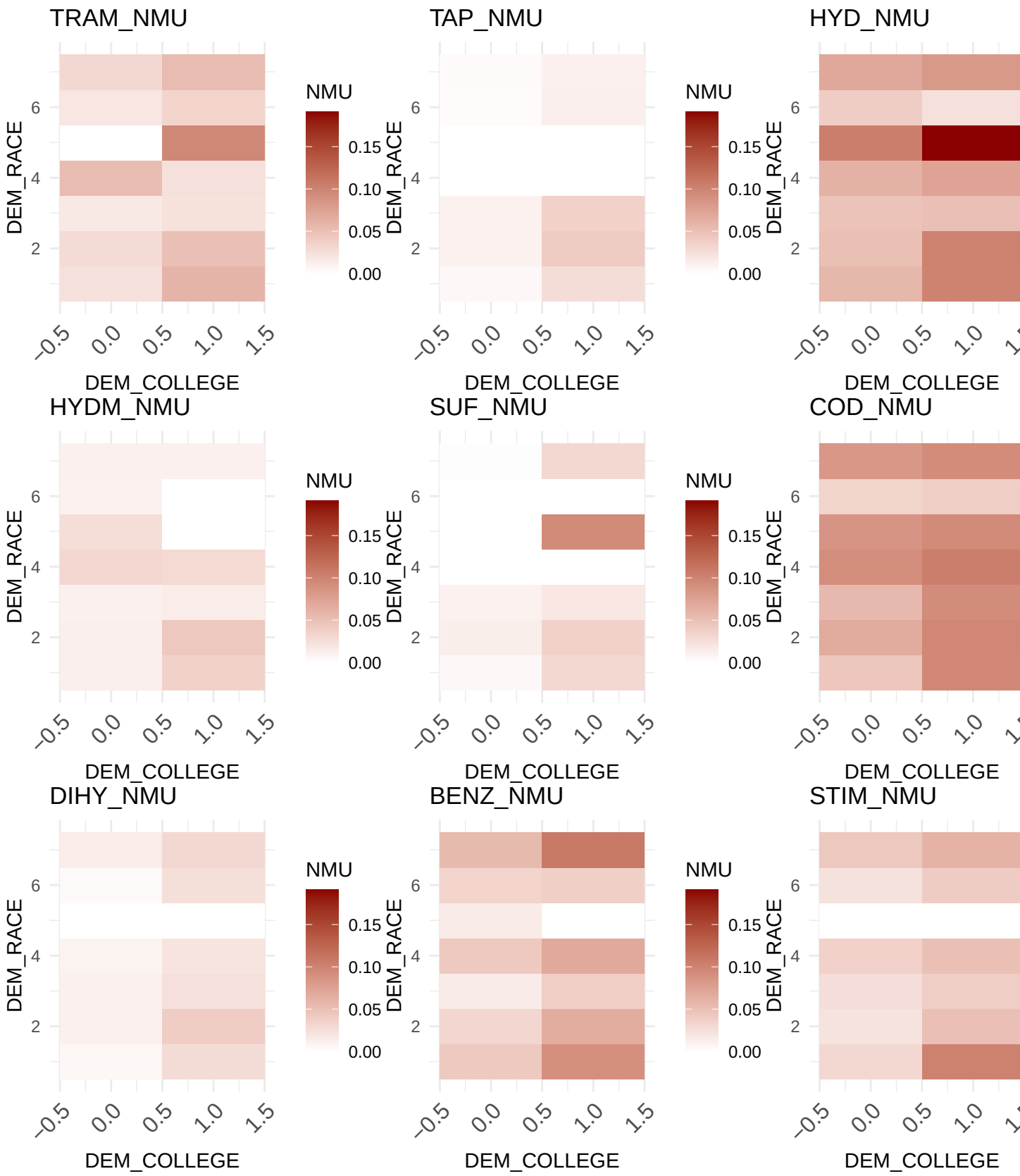

MORPH_NMU
OXY_NMU
OXYM_NMU
TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DEM_RACE
DEM_AGE10
NMU
0.20
0.15
0.10
0.05
0.00
2
4
6

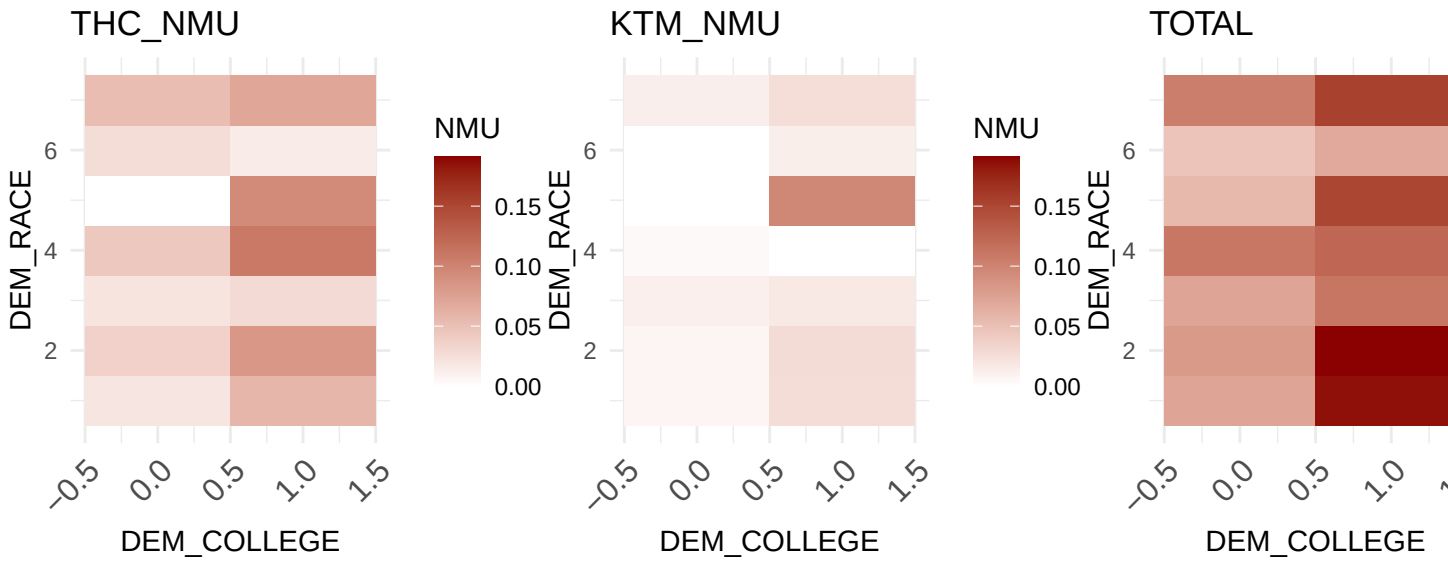

DIHY_NMU
BENZ_NMU
STIM_NMU
THC_NMU
KTM_NMU
TOTAL
NMU
0.20
0.15
0.10
0.05
0.00
DEM_RACE
DEM_AGE10
2
4
6

## College and Race

```
two_var_relationship("DEM_COLLEGE", "DEM_RACE")
```

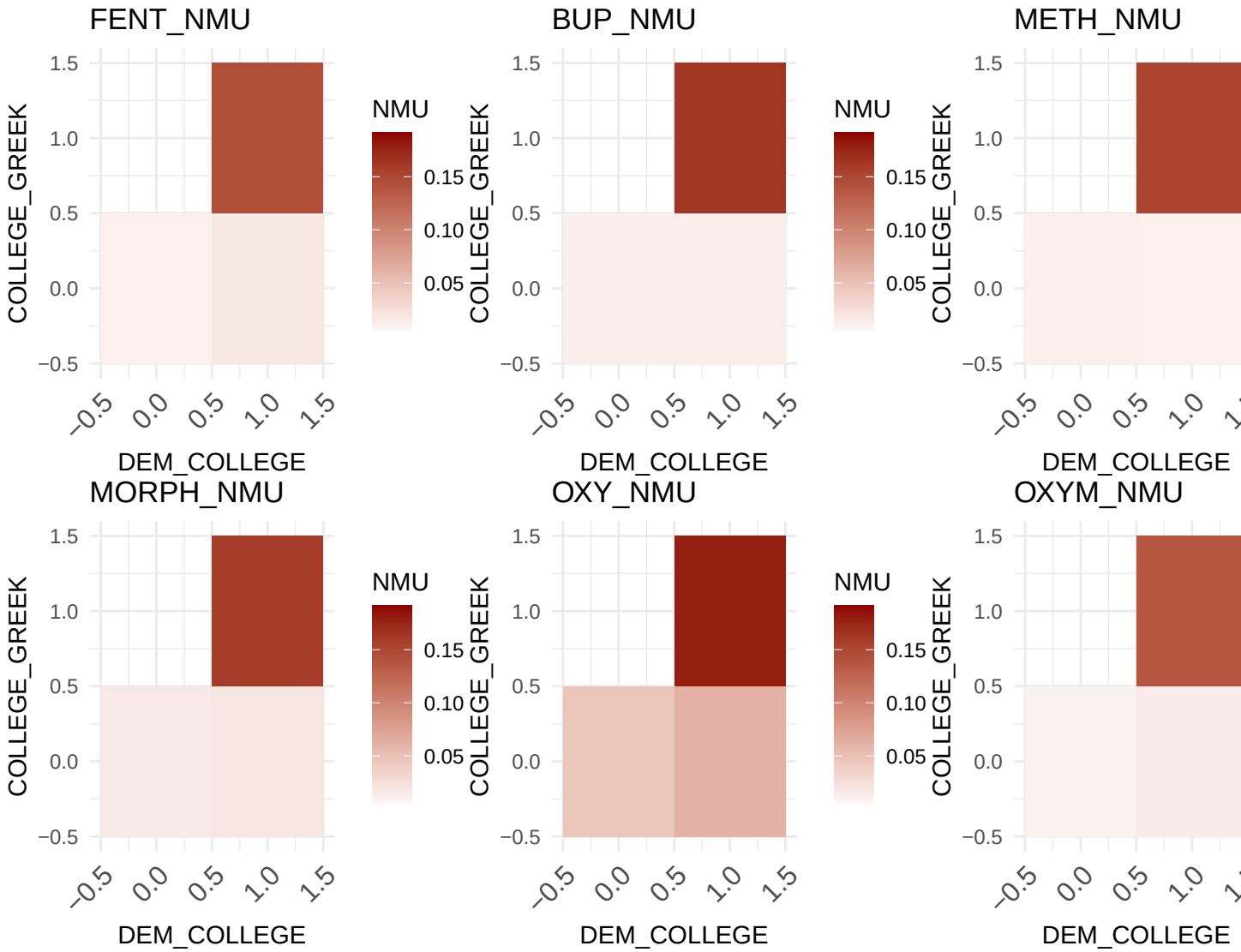


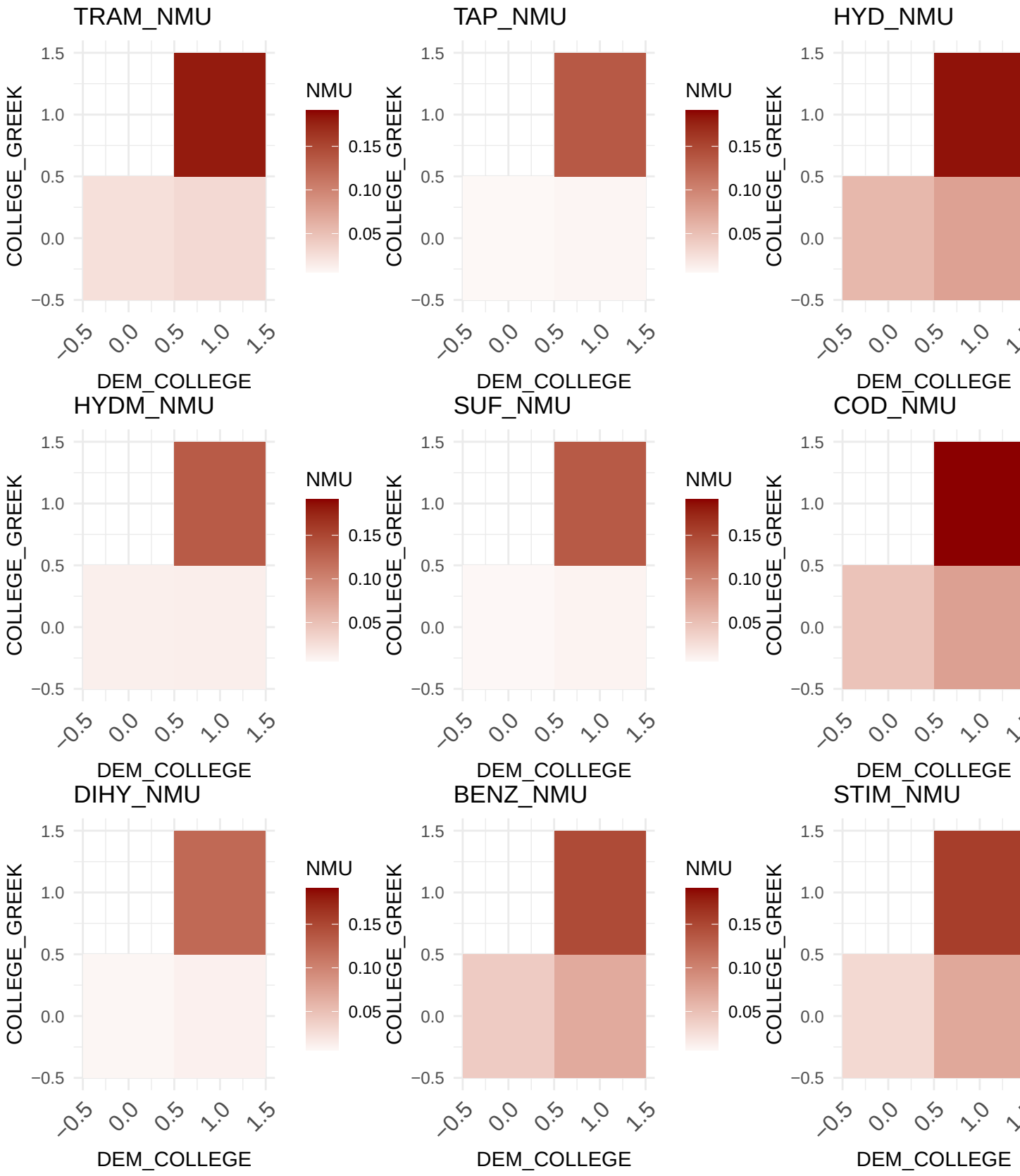

TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
NMU
0.15
0.10
0.05
0.00
DEM_RACE
2
4
6
DEM_COLLEGE
−0.5
0.0
0.5
1.0
1.5

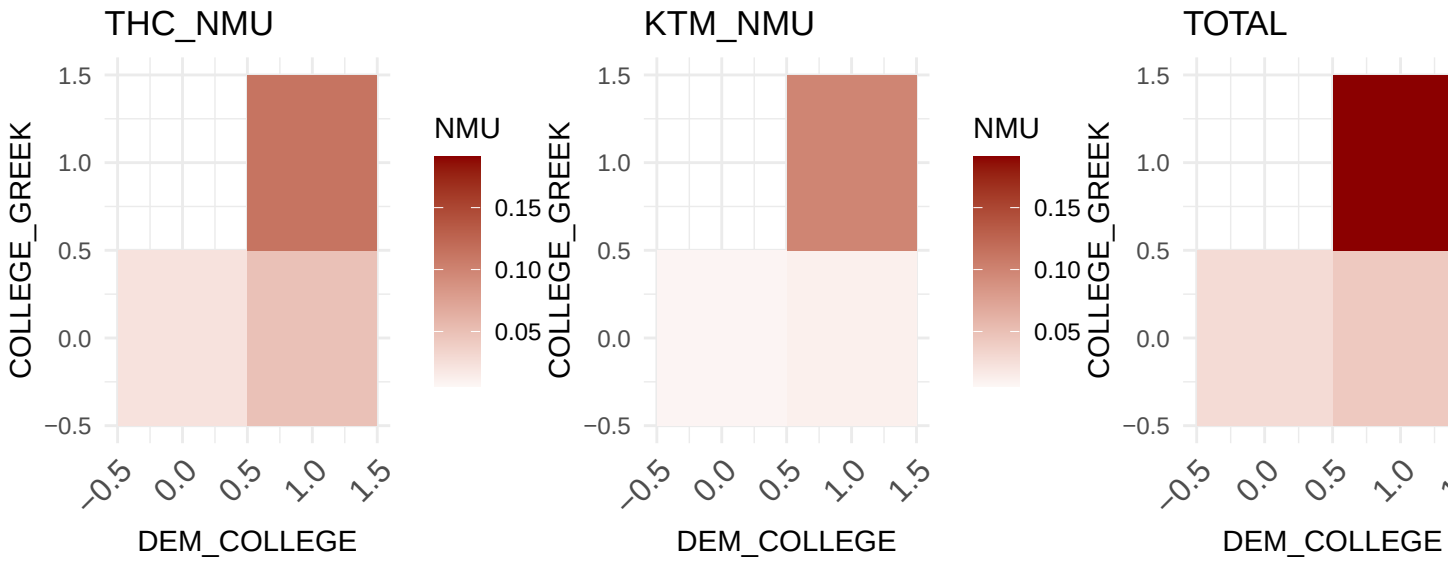

THC_NMU
KTM_NMU
TOTAL
NMU
0.15
0.10
0.05
0.00
DEM_RACE
6
4
2
−0.5
0.0
0.5
1.0
1.5
DEM_COLLEGE

## Greek Life vs. College

```
two_var_relationship("DEM_COLLEGE", "COLLEGE_GREEK")
```

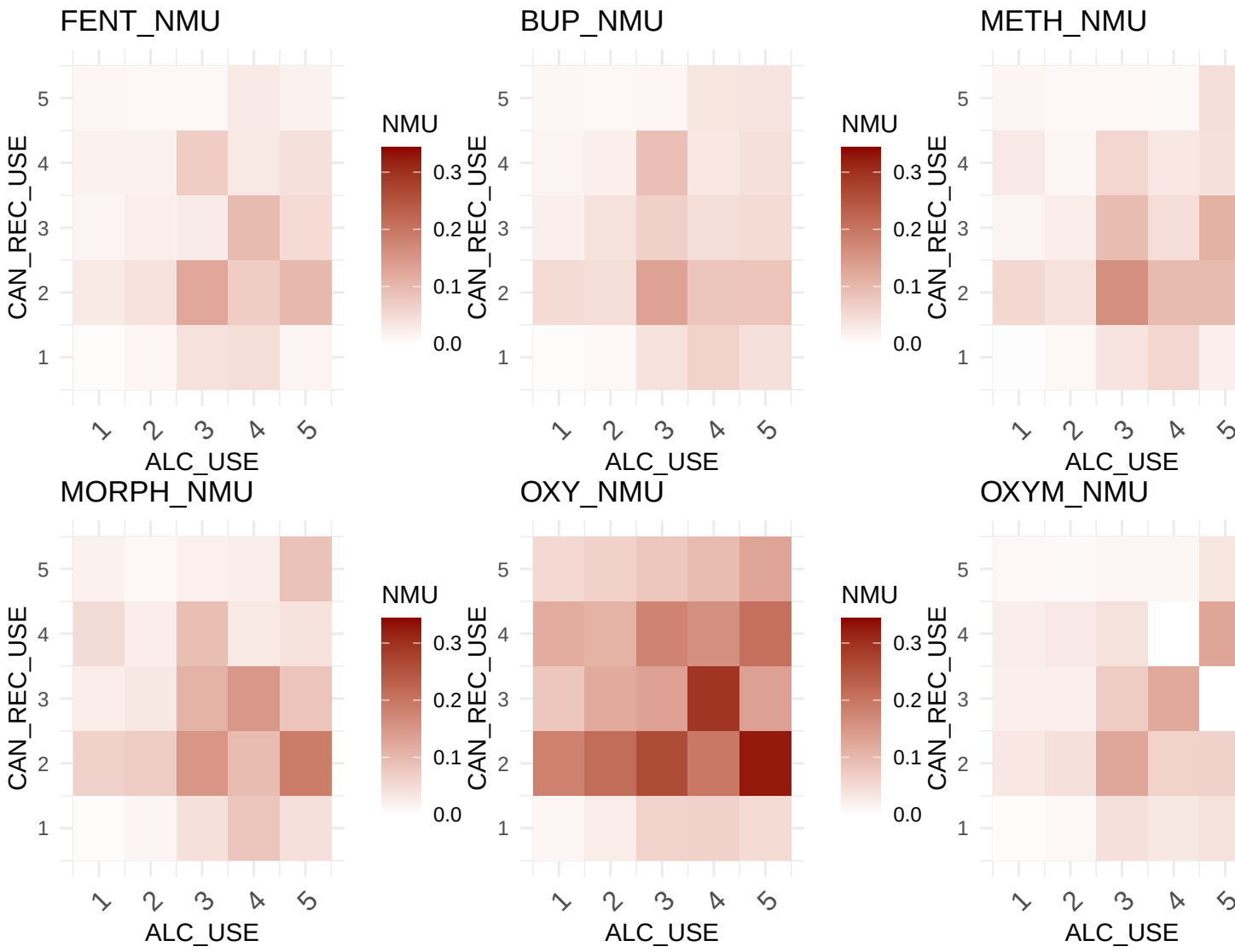


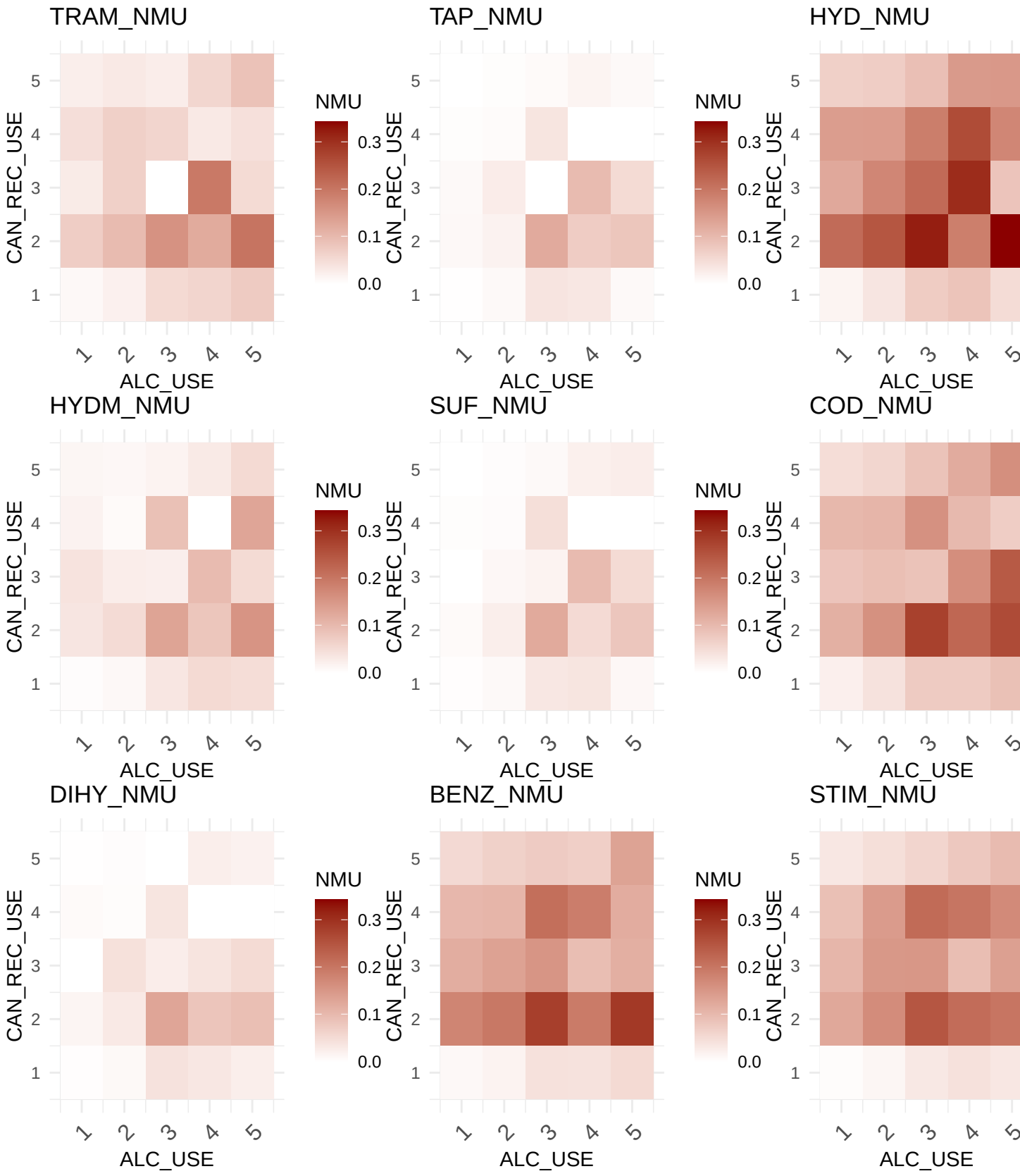

TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
COLLEGE_GREEK
DEM_COLLEGE
NMU
1.5
1.0
0.5
0.0
−0.5
0.15
0.10
0.05

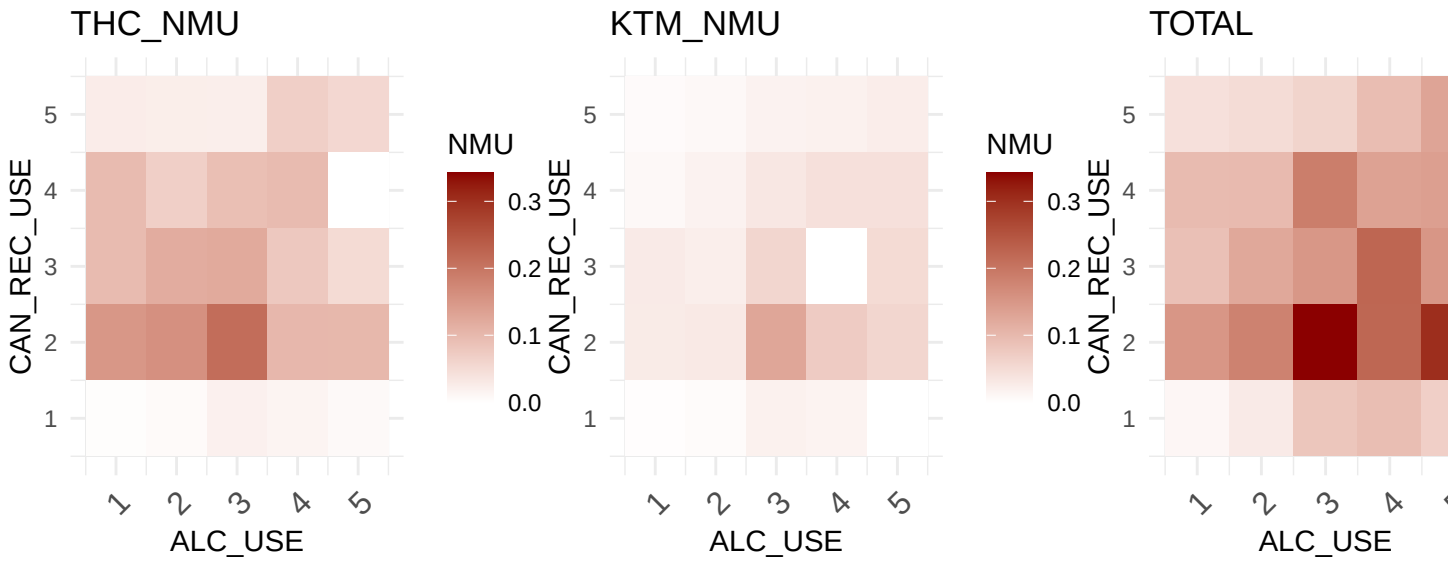

THC_NMU
KTM_NMU
TOTAL
COLLEGE_GREEK
DEM_COLLEGE
NMU
0.15
0.10
0.05
1.5
1.0
0.5
0.0
−0.5

## ALC vs. Cannibis

```
two_var_relationship("ALC_USE", "CAN_REC_USE")
```

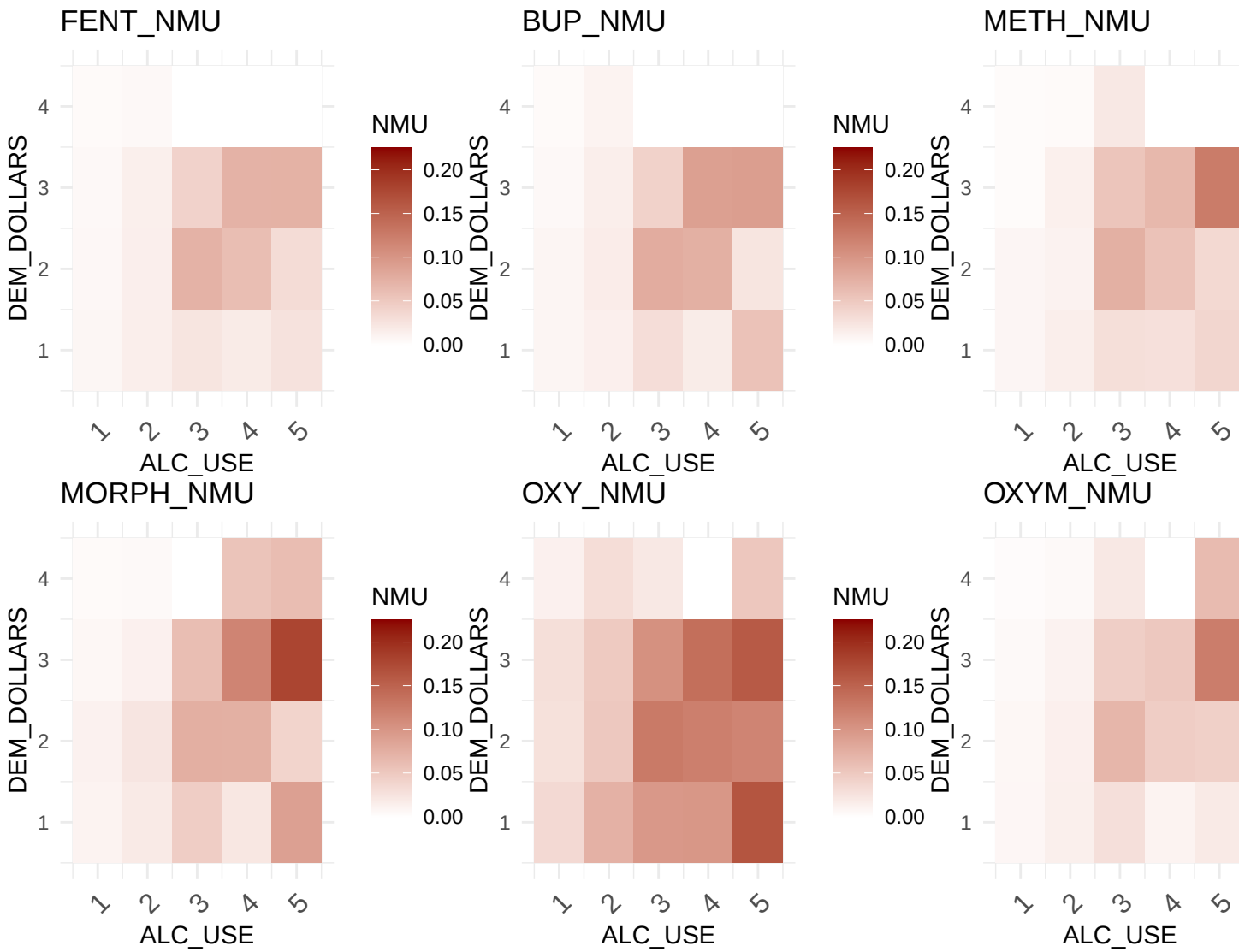


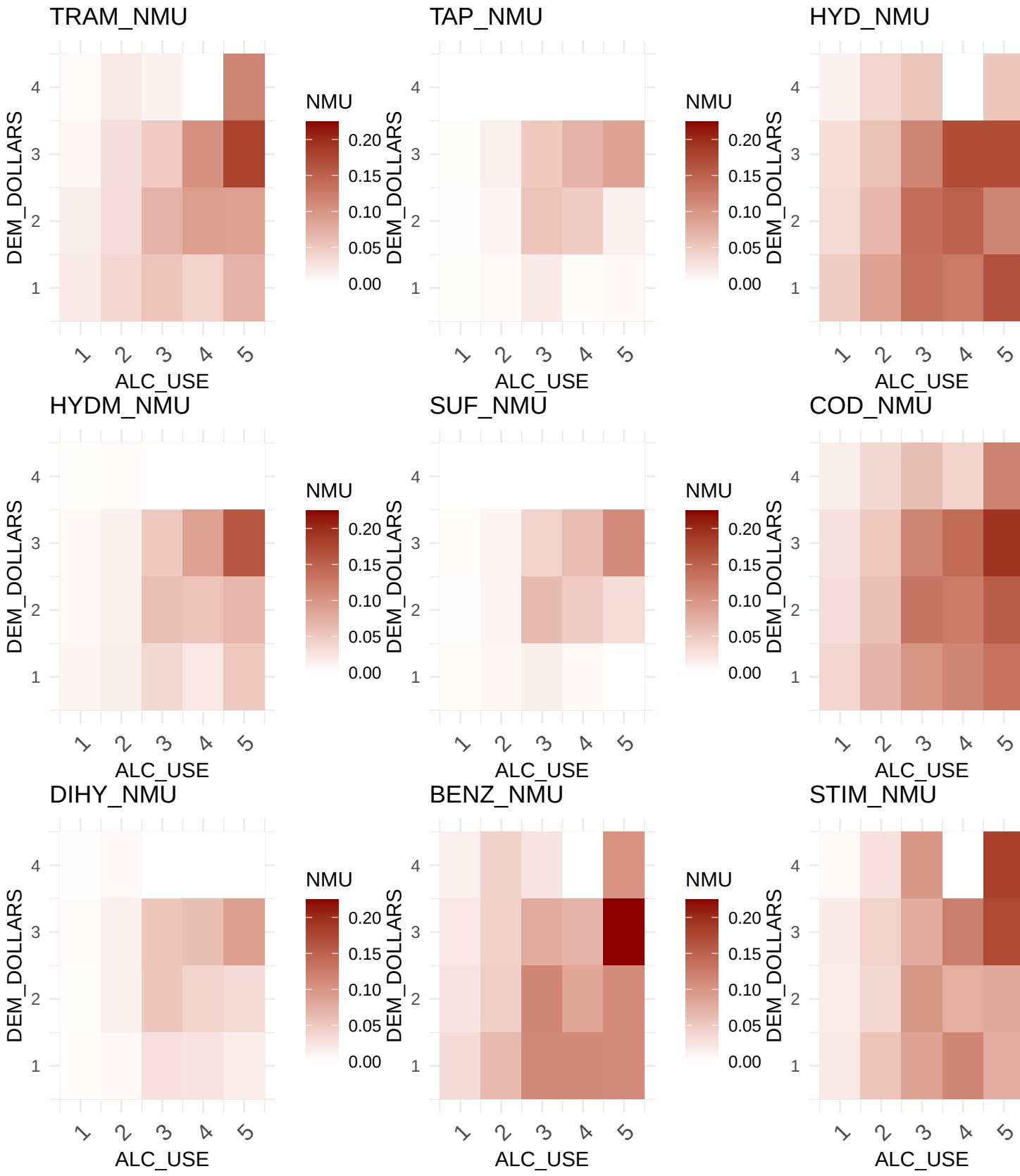

TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
NMU
0.0
0.1
0.2
0.3
CAN_REC_USE
ALC_USE
1
2
3
4
5

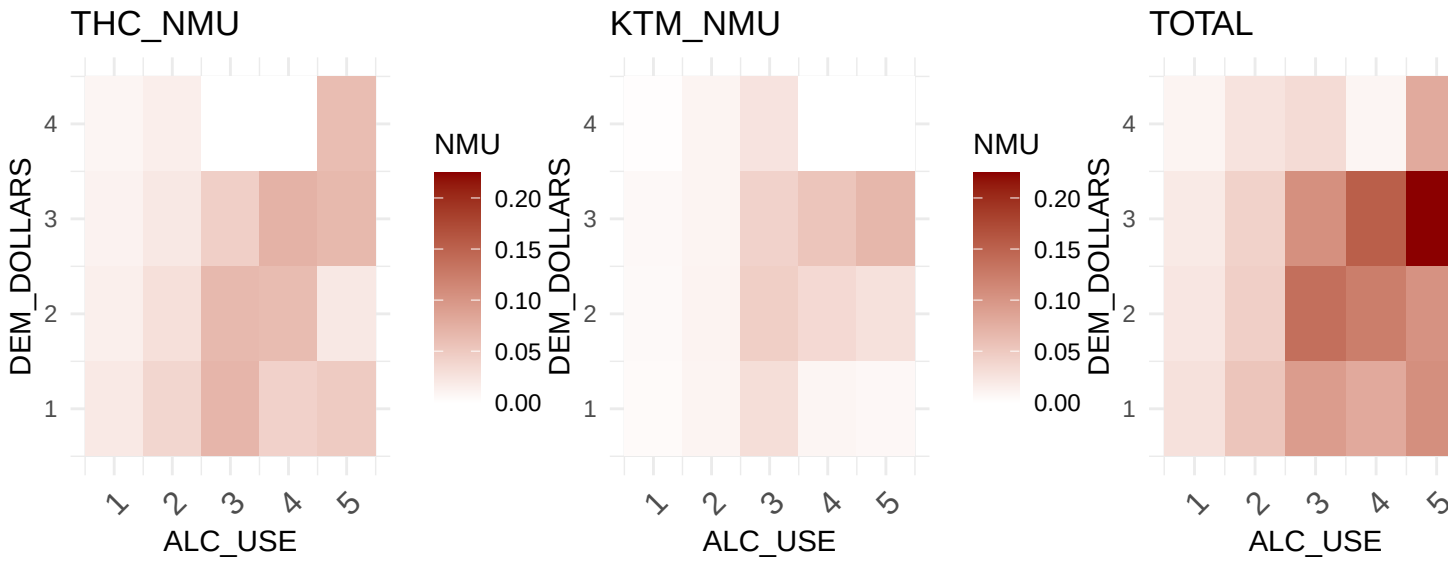

THC_NMU
KTM_NMU
TOTAL
NMU
0.0
0.1
0.2
0.3
CAN_REC_USE
ALC_USE
1
2
3
4
5

## ALC vs. Dollars

```
two_var_relationship("ALC_USE", "DEM_DOLLARS")
```

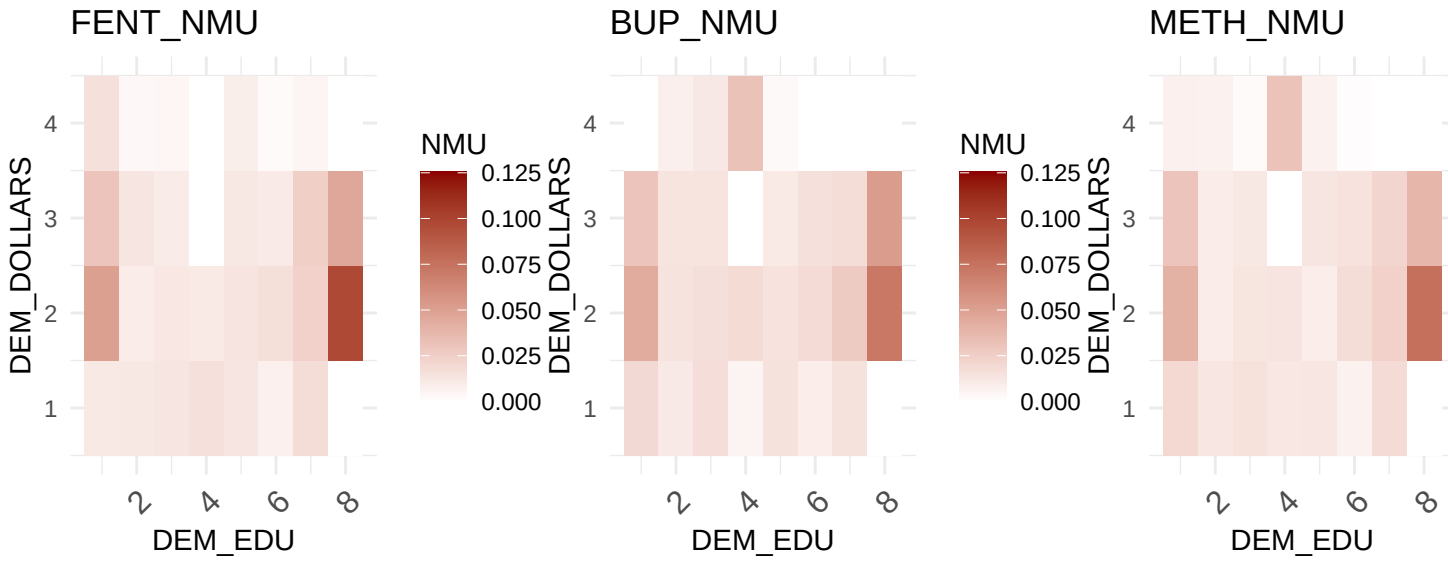


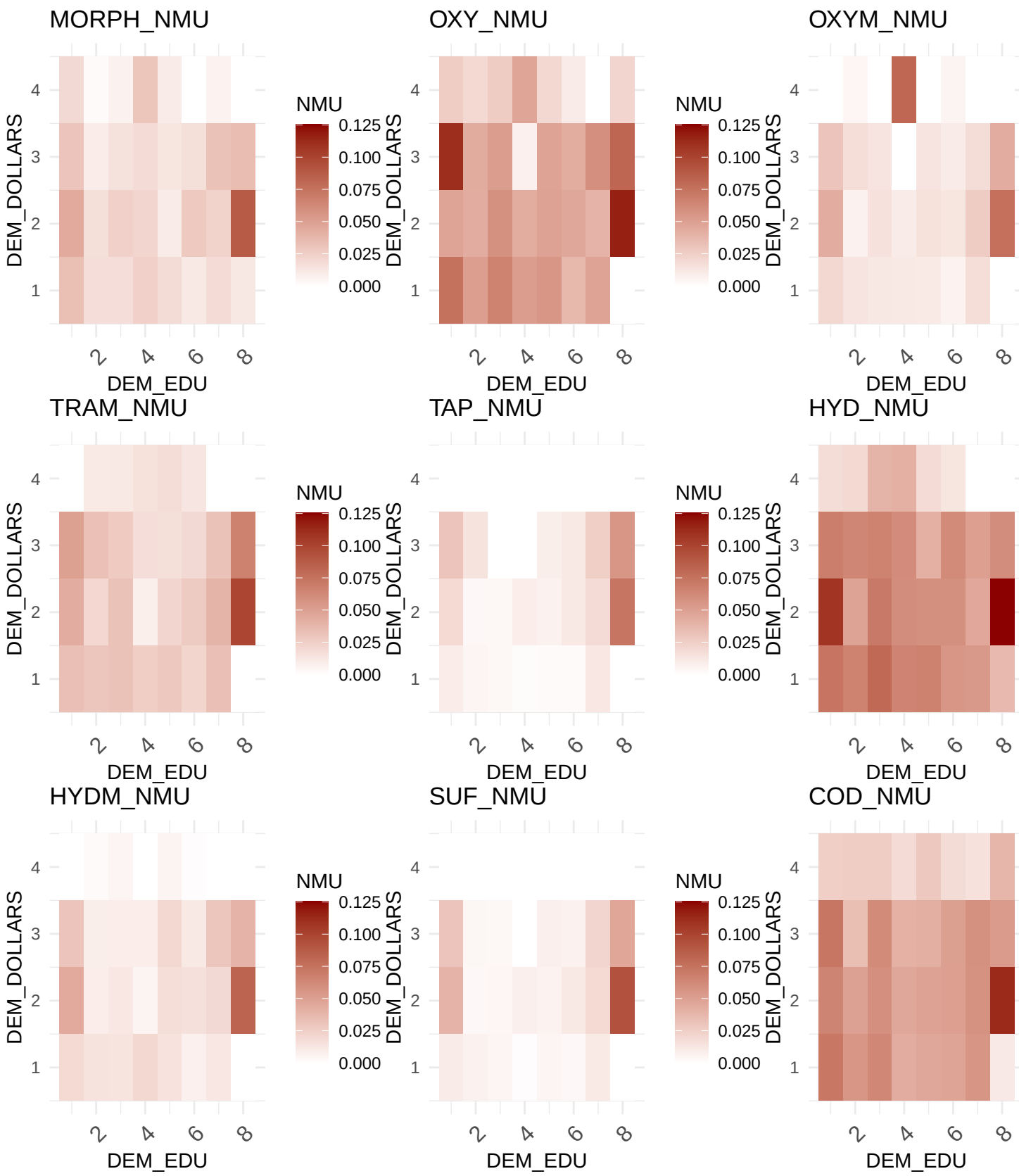

TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
DEM_DOLLARS
ALC_USE
NMU
0.20
0.15
0.10
0.05
0.00
1
2
3
4
5

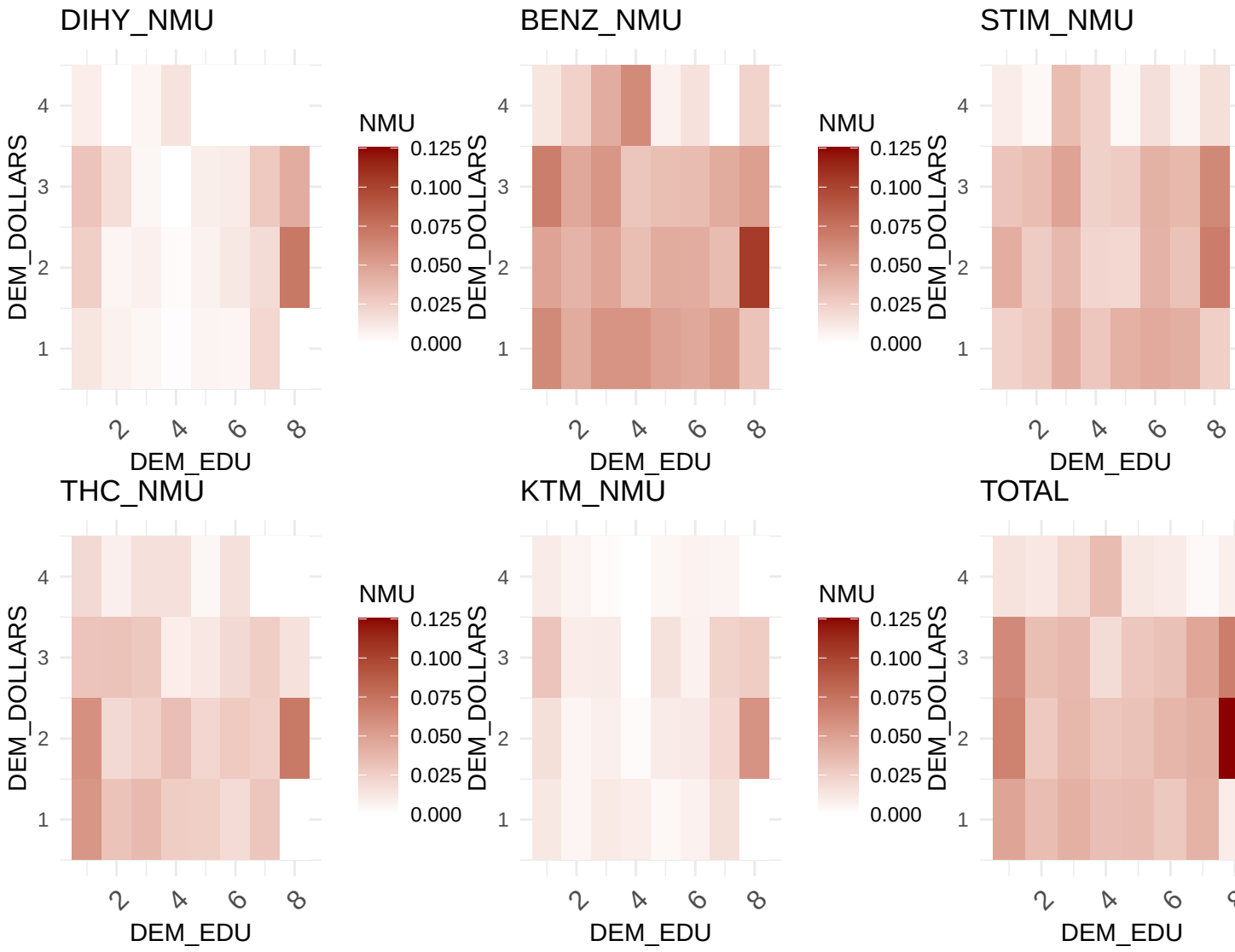



## DOLLARS vs. COLLEGE

```
two_var_relationship("DEM_EDU", "DEM_DOLLARS")
```

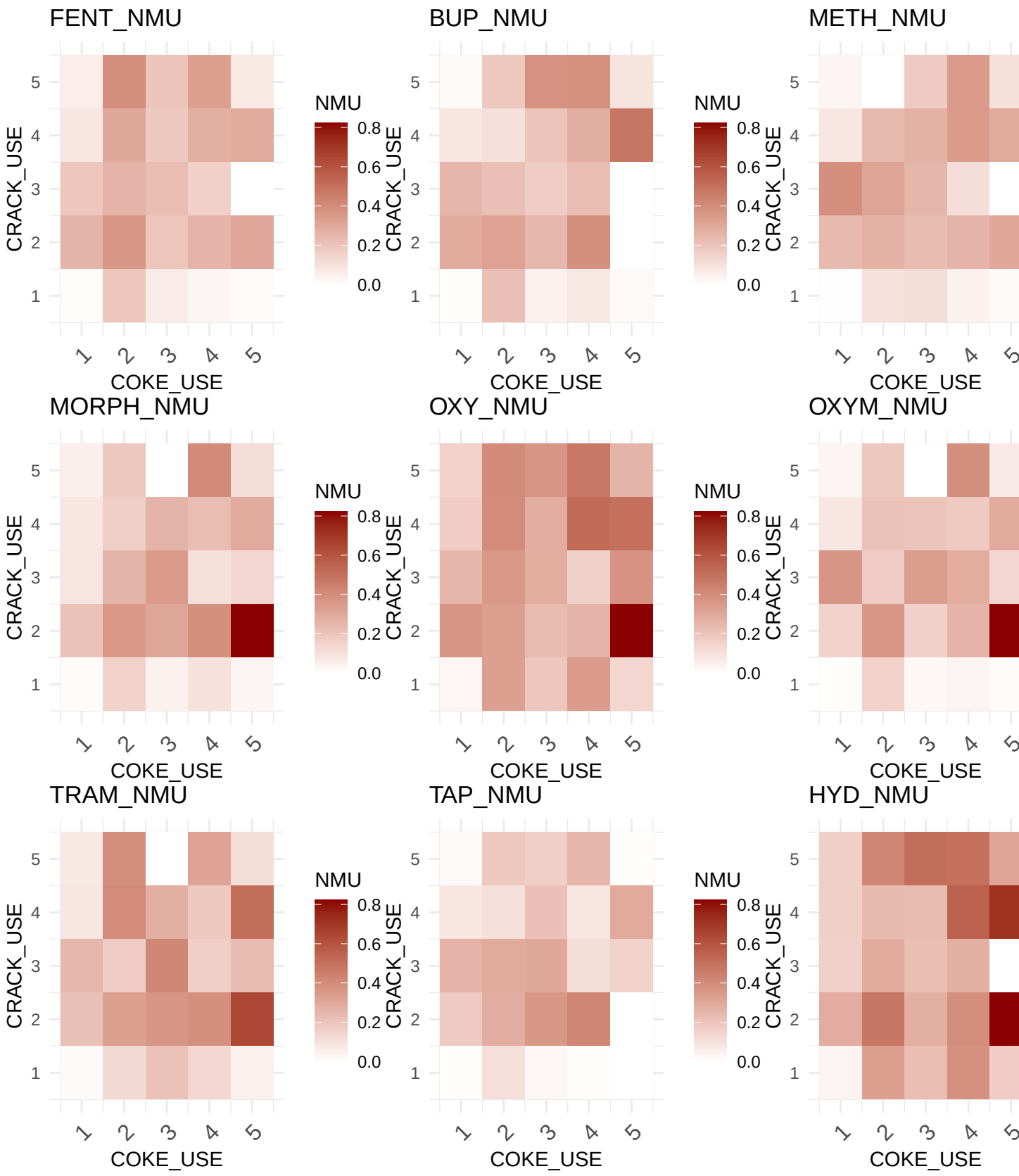


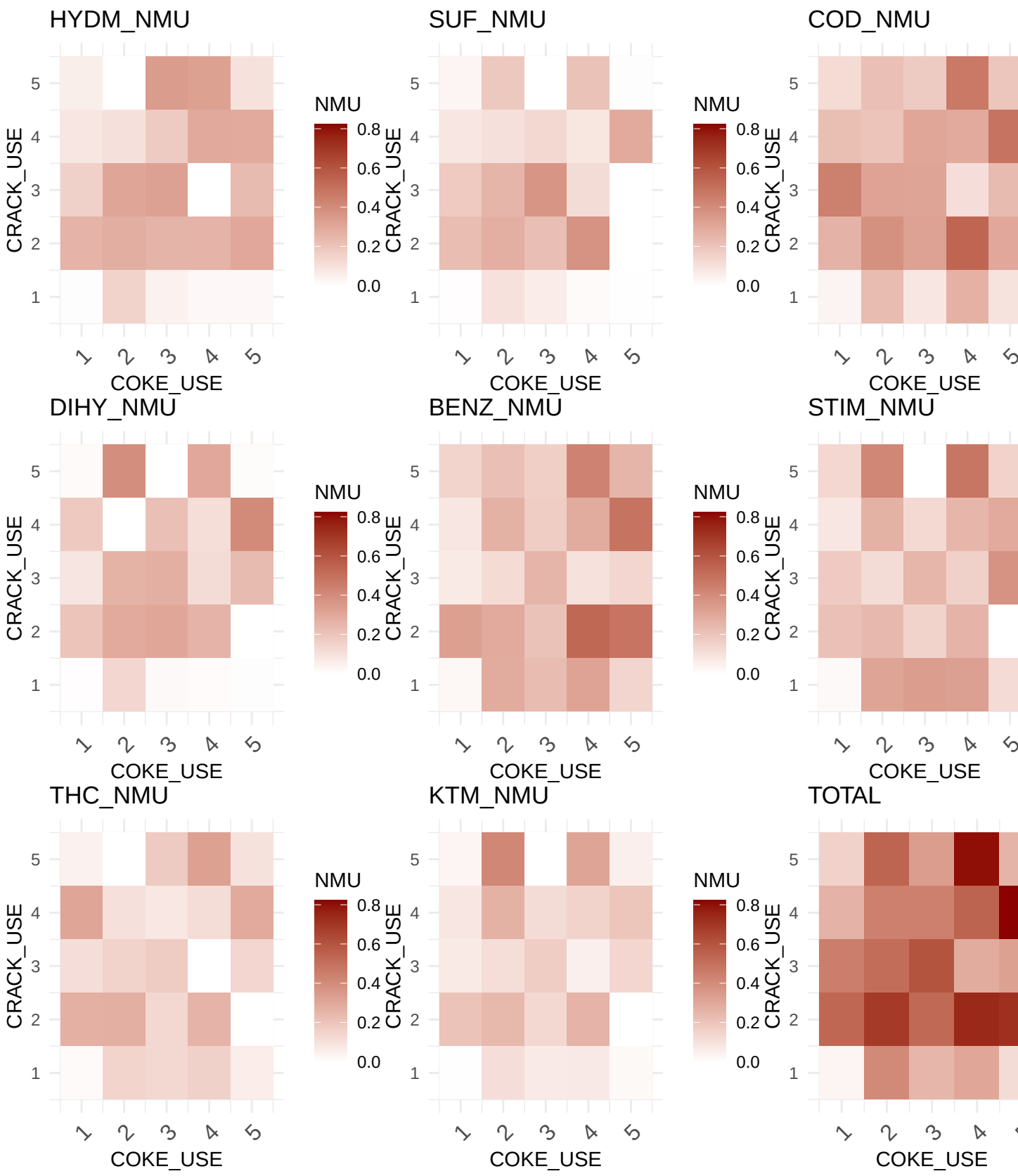

MORPH_NMU
OXY_NMU
OXYM_NMU
TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DEM_DOLLARS
DEM_EDU
NMU
0.125
0.100
0.075
0.050
0.025
0.000
1
2
3
4
2
4
6
8



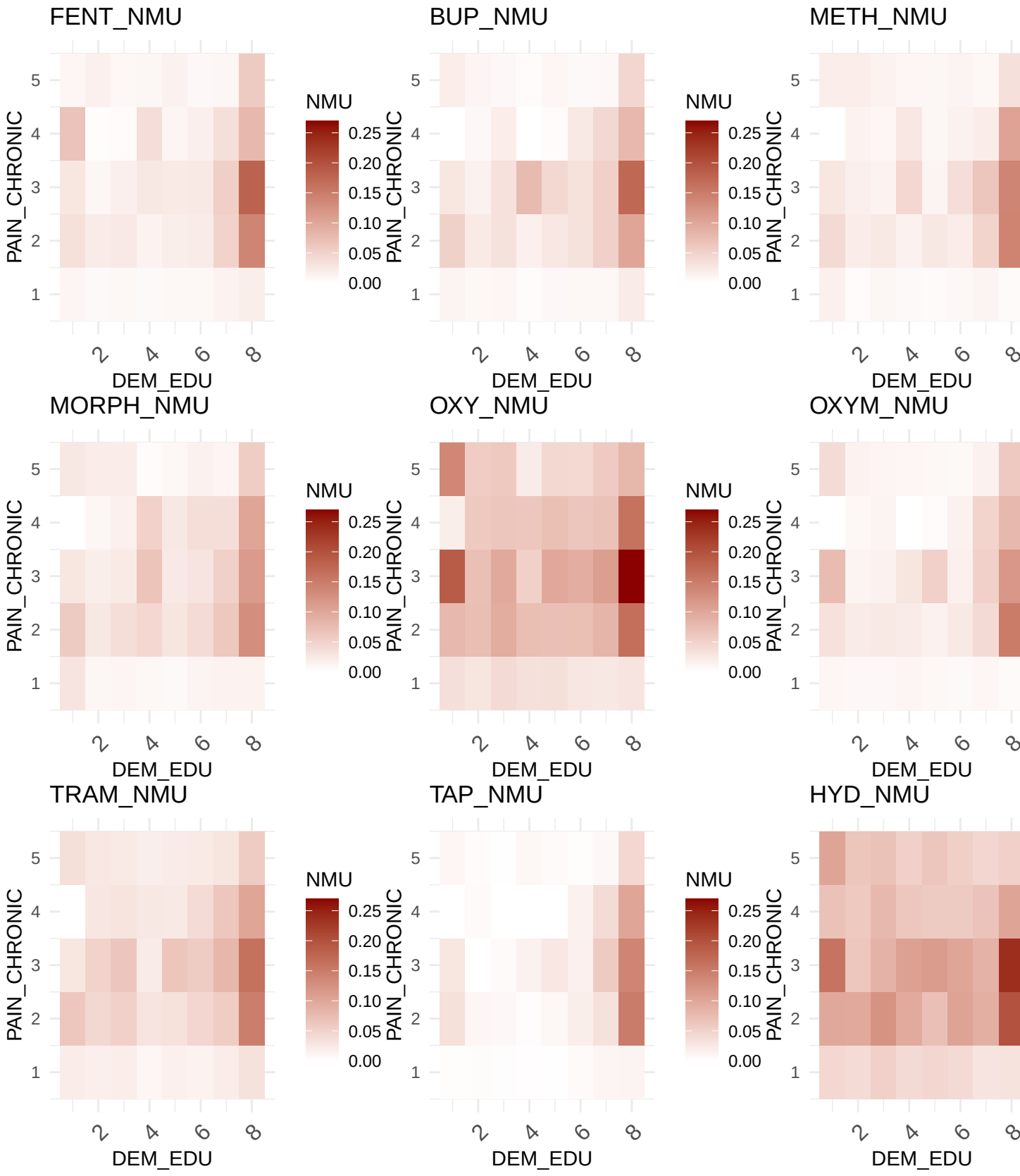

## COKE vs. CRACK

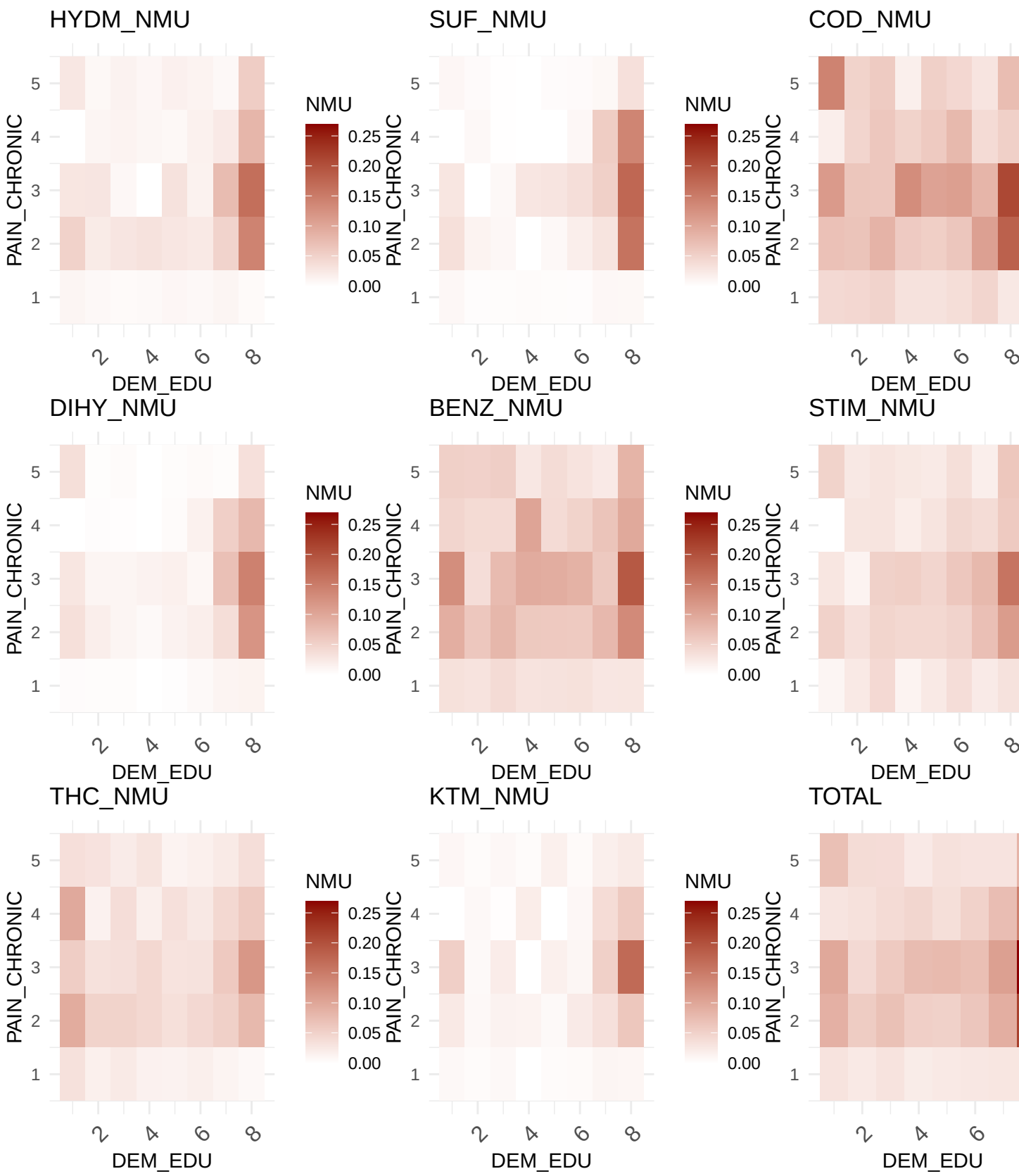
```
two_var_relationship("COKE_USE", "CRACK_USE")
```


FENT_NMU
BUP_NMU
METH_NMU
MORPH_NMU
OXY_NMU
OXYM_NMU
TRAM_NMU
TAP_NMU
HYD_NMU
CRACK_USE
COKE_USE
NMU
0.0
0.2
0.4
0.6
0.8
1
2
3
4
5

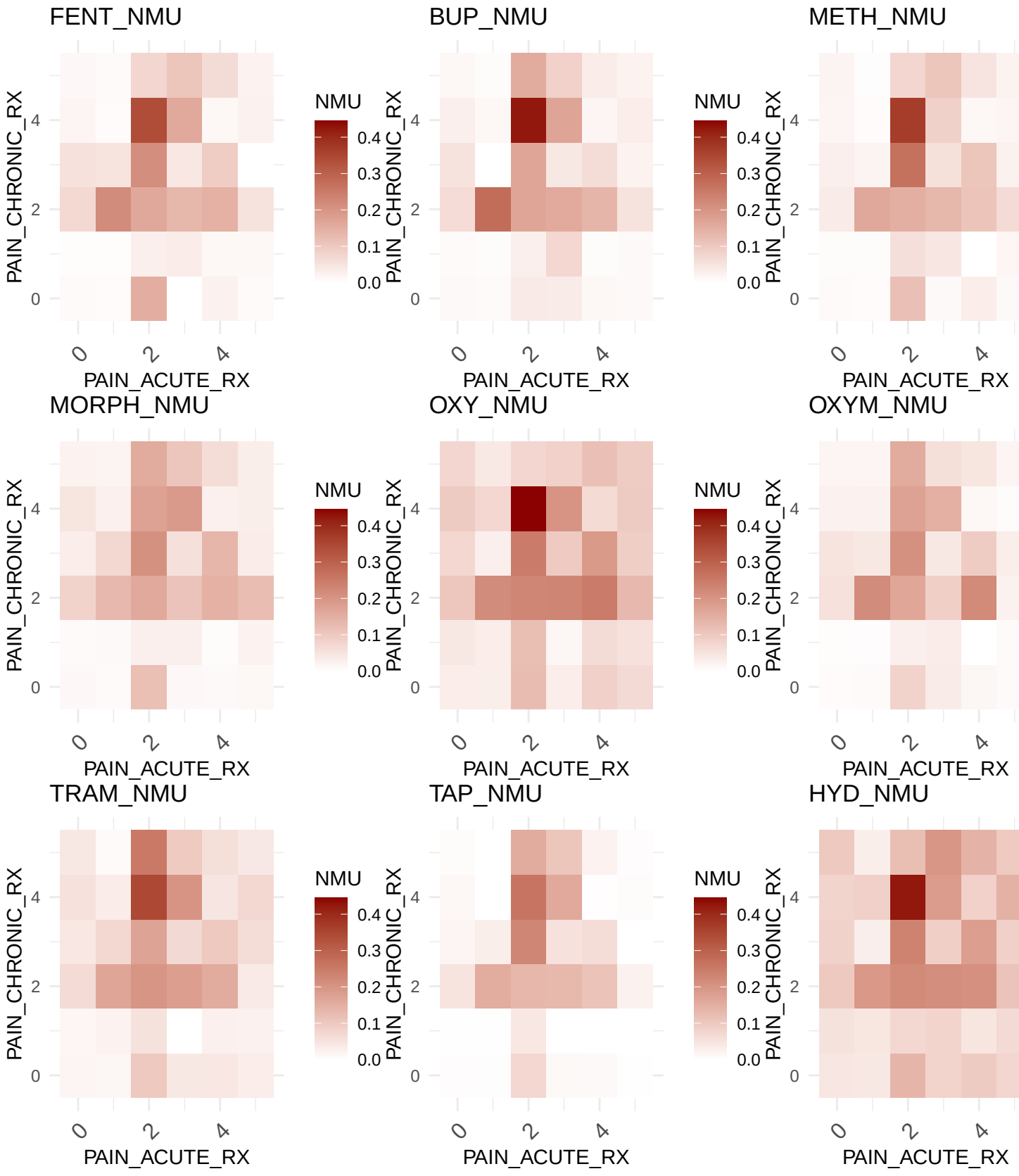

HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
THC_NMU
KTM_NMU
TOTAL
CRACK_USE
COKE_USE
NMU
0.0
0.2
0.4
0.6
0.8
1
2
3
4
5

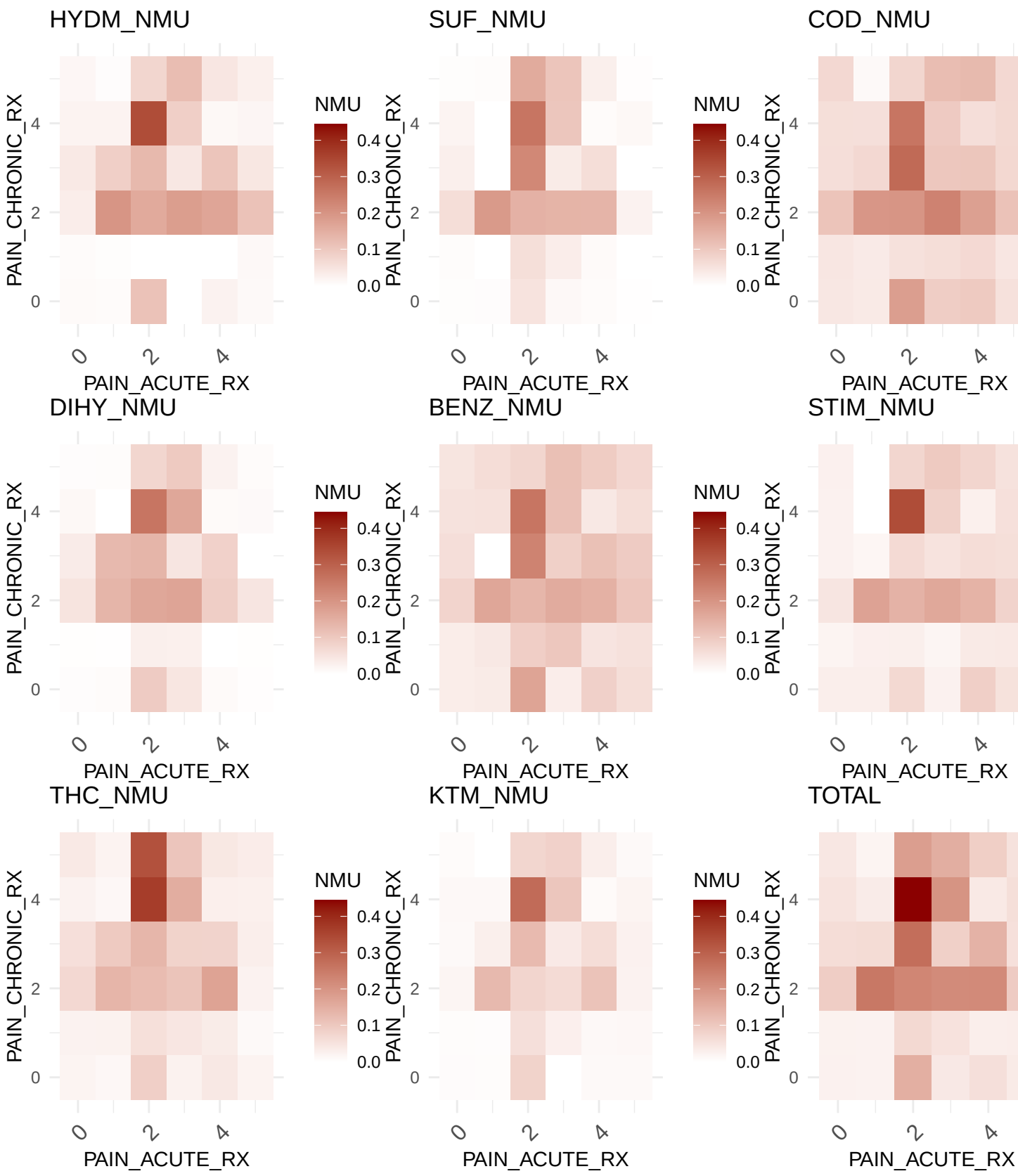
```
two_var_relationship("DEM_EDU", "PAIN_CHRONIC")
```




HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
THC_NMU
KTM_NMU
TOTAL
PAIN_CHRONIC
DEM_EDU
NMU
0.25
0.20
0.15
0.10
0.05
0.00
1
2
3
4
5
2
4
6
8

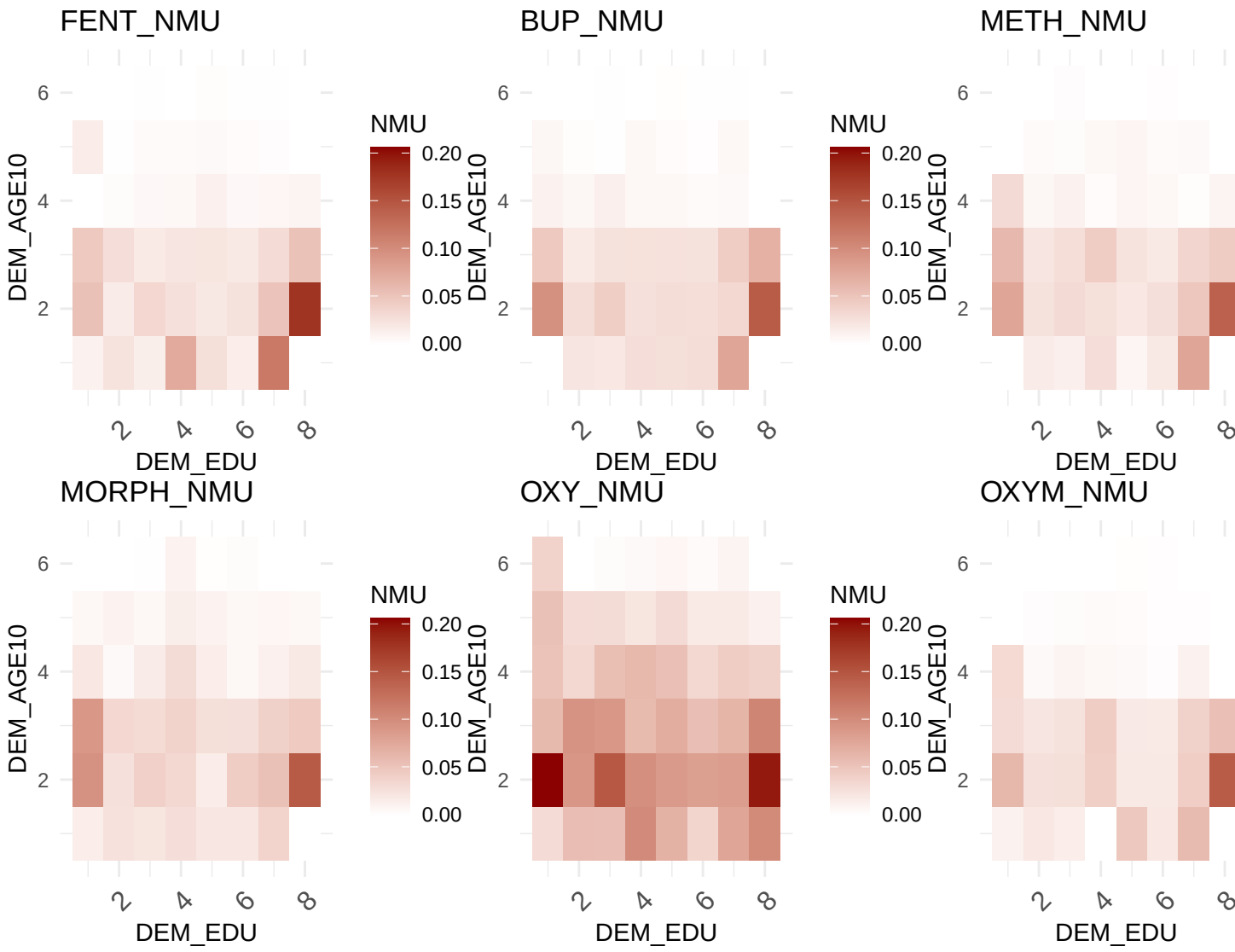
```
two_var_relationship("PAIN_ACUTE_RX", "PAIN_CHRONIC_RX")
```

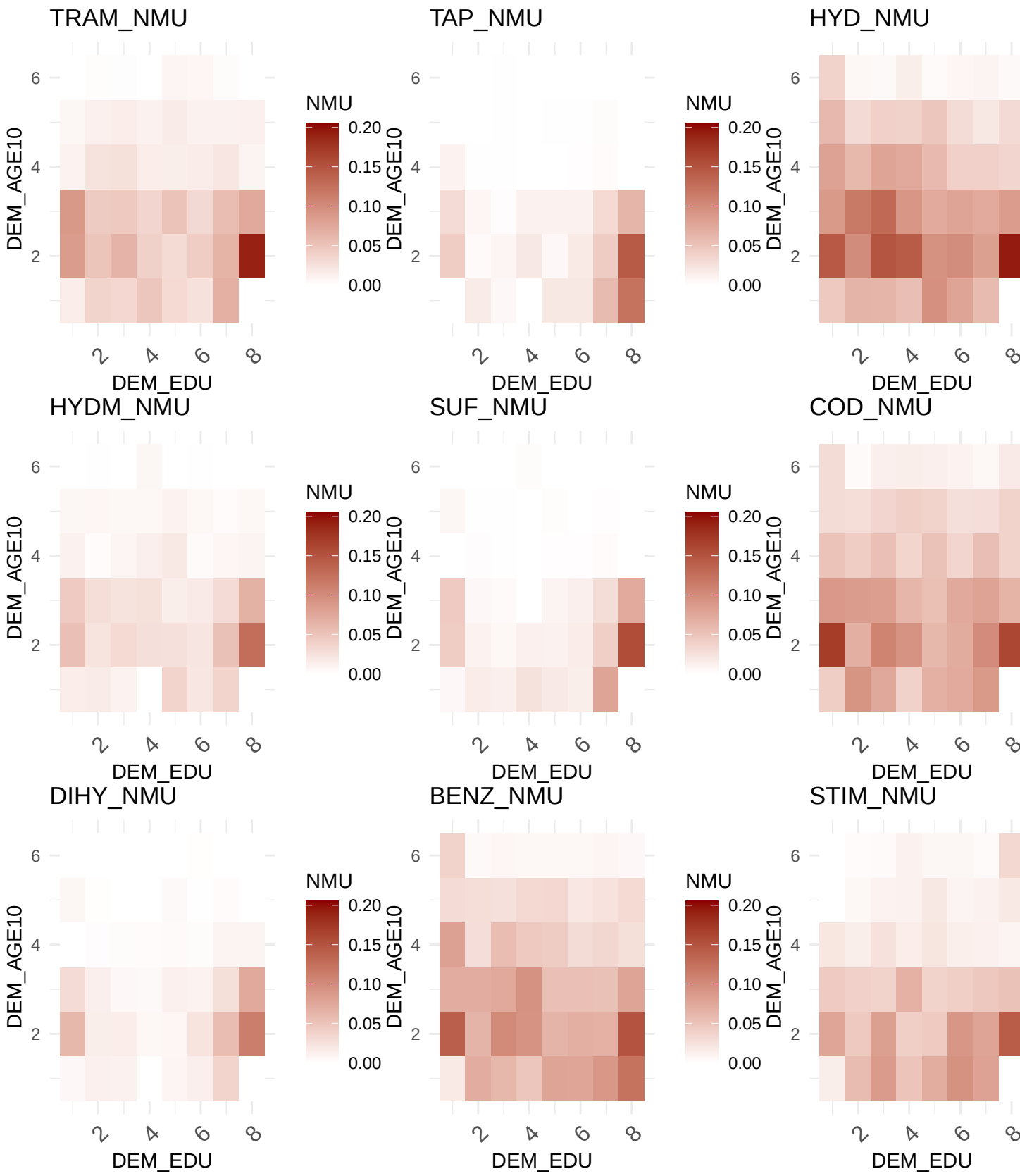


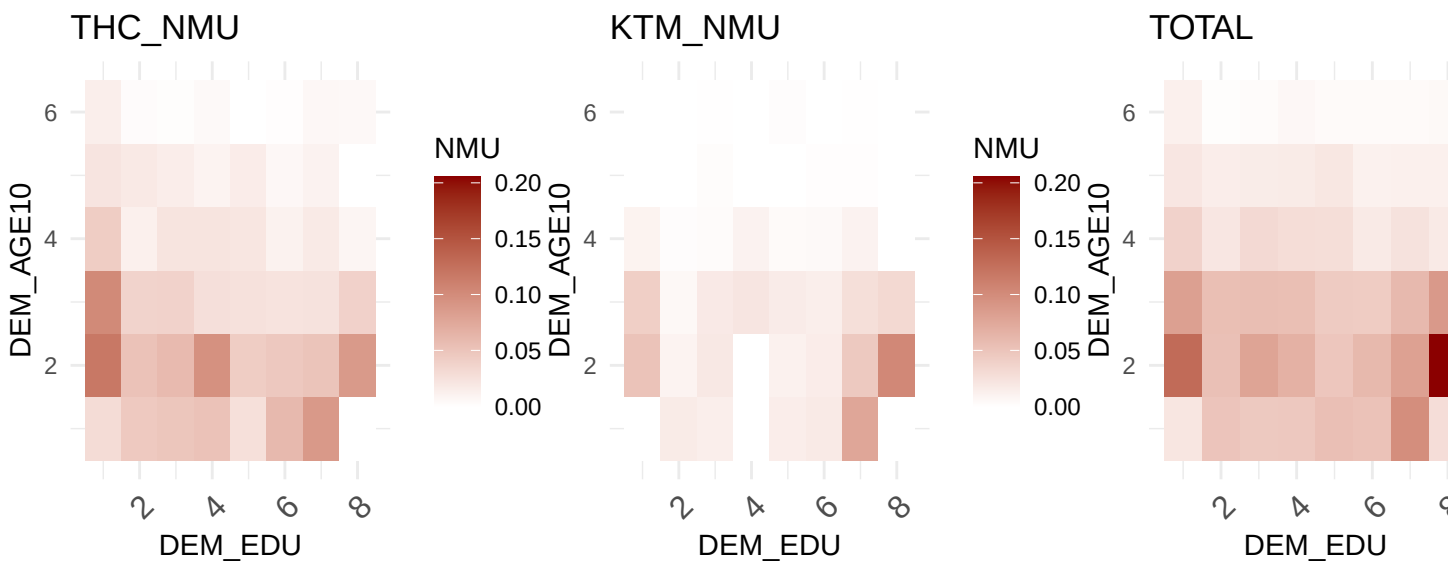

HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
THC_NMU
KTM_NMU
TOTAL
NMU
0.0
0.1
0.2
0.3
0.4
PAIN_CHRONIC_RX
PAIN_ACUTE_RX
0
2
4

## EDU vs. AGE10

```
two_var_relationship("DEM_EDU", "DEM_AGE10")
```




TRAM_NMU
TAP_NMU
HYD_NMU
HYDM_NMU
SUF_NMU
COD_NMU
DIHY_NMU
BENZ_NMU
STIM_NMU
DEM_AGE10
DEM_EDU
NMU
0.20
0.15
0.10
0.05
0.00
2
4
6
8


THC_NMU
KTM_NMU
TOTAL
DEM_AGE10
DEM_EDU
NMU
0.20
0.15
0.10
0.05
0.00
2
4
6
8