

# PRILOGA A: Modeliranje dolgoročne učinkovitosti ukrepov z modelom SWAT

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## PRILOGA A – Podatki o lastnostih tal na raziskovalnih območjih

Vipava

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| MUID | SEQN | SNAM    | SSID | CMPPCT | NLAYERS | HYDGRP | SOL_ZMX | ANION_EXCL | SOL_CRK | TEXTURE                       | SOL_Z1 | SOL_BD1    | SOL_AWC1   |
|------|------|---------|------|--------|---------|--------|---------|------------|---------|-------------------------------|--------|------------|------------|
| 93   | 93   | ZPP93   | 93   | 1      | 4       | A      | 1000    | 0.5        | 0.5     | GI-MGI-MG-MG                  | 260    | 1.35       | 0.17       |
| 103  | 103  | ZPP103  | 103  | 1      | 3       | A      | 1000    | 0.5        | 0.5     | I-GI-MGI                      | 320    | 1.36       | 0.15       |
| 105  | 105  | ZPP105  | 105  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | MGI-GI                        | 80     | 1.31240145 | 0.16899705 |
| 106  | 106  | ZPP106  | 106  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | MI-GI                         | 150    | 1.33974622 | 0.17       |
| 107  | 107  | ZPP107  | 107  | 1      | 1       | A      | 1000    | 0.5        | 0.5     | I                             | 100    | 1.38042615 | 0.15672766 |
| 108  | 108  | ZPP108  | 108  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | GI-GI                         | 320    | 1.36534218 | 0.14147144 |
| 111  | 111  | ZPP111  | 111  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | GI-MGI-MG-MG                  | 180    | 1.30393893 | 0.15305501 |
| 121  | 121  | ZPP121  | 121  | 1      | 3       | A      | 1000    | 0.5        | 0.5     | GI-GI-GI                      | 280    | 1.35       | 0.15       |
| 143  | 143  | ZPP143  | 143  | 1      | 6       | A      | 1000    | 0.5        | 0.5     | MI-MI-MI-MGI-MGI-GI           | 100    | 1.41861785 | 0.17222779 |
| 155  | 155  | ZPP155  | 155  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | G-G                           | 70     | 1.22511469 | 0.13958401 |
| 160  | 160  | ZPP160  | 160  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | MGI-MGI-MGI-MGI               | 110    | 1.30631288 | 0.17283011 |
| 161  | 161  | ZPP161  | 161  | 1      | 5       | A      | 1000    | 0.5        | 0.5     | GI-I-I-I                      | 150    | 1.41735932 | 0.13670936 |
| 162  | 162  | ZPP162  | 162  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | I-MI                          | 180    | 1.34743474 | 0.15557527 |
| 163  | 163  | ZPP163  | 163  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | GI-MI-MGI-MGI                 | 170    | 1.33       | 0.16       |
| 165  | 165  | ZPP165  | 165  | 1      | 3       | A      | 1000    | 0.5        | 0.5     | I-I-GI                        | 380    | 1.40941035 | 0.13172039 |
| 166  | 166  | ZPP166  | 166  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | MI-MI-MGI-MI                  | 180    | 1.35675412 | 0.18       |
| 496  | 496  | ZPP496  | 496  | 1      | 8       | A      | 1000    | 0.5        | 0.5     | MI-MGI-MGI-MGI-GI-MGI-GI-I-GI | 300    | 1.37911431 | 0.17016066 |
| 869  | 869  | ZPP869  | 869  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | IPI-I-I-PI                    | 290    | 1.55104983 | 0.14004668 |
| 871  | 871  | ZPP871  | 871  | 1      | 3       | A      | 1000    | 0.5        | 0.5     | MGI-MG-MGG                    | 110    | 1.29634841 | 0.15560706 |
| 878  | 878  | ZPP878  | 878  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | I-I-GI-MGI                    | 120    | 1.45397726 | 0.13       |
| 1402 | 1402 | ZPP1402 | 1402 | 1      | 6       | A      | 1000    | 0.5        | 0.5     | MI-MI-MGI-MGI-MG-G            | 130    | 1.34904457 | 0.1817657  |
| 1403 | 1403 | ZPP1403 | 1403 | 1      | 5       | A      | 1000    | 0.5        | 0.5     | IMI-MGI-MGI-MGI-MG            | 310    | 1.37025285 | 0.16379026 |
| 1420 | 1420 | ZPP1420 | 1420 | 1      | 3       | A      | 1000    | 0.5        | 0.5     | IPI-PI-MI                     | 220    | 1.48477223 | 0.12807869 |
| 1425 | 1425 | ZPP1425 | 1425 | 1      | 4       | A      | 1000    | 0.5        | 0.5     | MGI-MG-MGI-MG                 | 140    | 1.29327948 | 0.17       |
| 1426 | 1426 | ZPP1426 | 1426 | 1      | 5       | A      | 1000    | 0.5        | 0.5     | MI-MGI-MGI-MG-G               | 120    | 1.38782641 | 0.18681236 |
| 1427 | 1427 | ZPP1427 | 1427 | 1      | 3       | A      | 1000    | 0.5        | 0.5     | MGI-MGI-MGI                   | 40     | 1.26895244 | 0.17277364 |
| 1475 | 1475 | ZPP1475 | 1475 | 1      | 2       | A      | 1000    | 0.5        | 0.5     | MI-MI                         | 190    | 1.33672016 | 0.17692058 |
| 1476 | 1476 | ZPP1476 | 1476 | 1      | 4       | A      | 1000    | 0.5        | 0.5     | MI-MGI-MGI-MGI                | 30     | 1.43       | 0.19       |
| 1479 | 1479 | ZPP1479 | 1479 | 1      | 5       | A      | 1000    | 0.5        | 0.5     | MI-I-MI-I-MGI                 | 130    | 1.3713211  | 0.15699507 |
| 497  | 497  | ZPP497  | 497  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | MGI-MGI-MGI-MGI               | 50     | 1.28474838 | 0.16277122 |
| 641  | 641  | ZPP641  | 641  | 1      | 4       | A      | 1000    | 0.5        | 0.5     | GI-GI-I-GI                    | 40     | 1.32129709 | 0.13976895 |
| 870  | 870  | ZPP870  | 870  | 1      | 3       | A      | 1000    | 0.5        | 0.5     | I-I-PI                        | 230    | 1.50884275 | 0.13261897 |
| 902  | 902  | ZPP902  | 902  | 1      | 2       | A      | 1000    | 0.5        | 0.5     | MGI-MG                        | 40     | 1.2378221  | 0.17044057 |

| SOL_K1     | SOL_CBN1 | CLAY1 | SILT1 | SAND1 | ROCK1 | SOL_ALB1 | USLE_K1    | SOL_EC1 | SOL_Z2 | SOL_BD2    | SOL_AWC2   | SOL_K2     | SOL_CBN2 | CLAY2 | SILT2 |
|------------|----------|-------|-------|-------|-------|----------|------------|---------|--------|------------|------------|------------|----------|-------|-------|
| 0.81       | 2.8      | 23.4  | 55.2  | 21.4  | 0     | 0.16     | 0.1828     | 0       | 380    | 1.35       | 0.17       | 0.81       | 1.4      | 32.9  | 50.6  |
| 0.65       | 3        | 24.2  | 45.3  | 30.5  | 0     | 0.16     | 0.1757121  | 0       | 530    | 1.33       | 0.16       | 0.49       | 1.1      | 28.5  | 45.9  |
| 0.57107215 | 7.1      | 28.4  | 54.1  | 17.5  | 0     | 0.09     | 0.21124568 | 0       | 300    | 1.35865425 | 0.1387617  | 0.4979326  | 2.7      | 26.3  | 38    |
| 0.78       | 2.3      | 24.2  | 56.3  | 19.5  | 80    | 0.09     | 0.21073362 | 0       | 540    | 1.33745829 | 0.17       | 0.7        | 1.6      | 25.1  | 53.8  |
| 0.91984059 | 13.8     | 20.8  | 50.1  | 29.1  | 5     | 0.09     | 0.18327828 | 0       | 0      | 0          | 0          | 0          | 0        | 0     | 0     |
| 0.57092938 | 2.5      | 24.9  | 41.1  | 35    | 0     | 0.09     | 0.17065915 | 0       | 680    | 1.4        | 0.12       | 0.66       | 0.7      | 22.1  | 32.5  |
| 0.35505276 | 14.2     | 33.1  | 42.1  | 24.8  | 0     | 0.09     | 0.17121593 | 0       | 500    | 1.27100034 | 0.16118618 | 0.3164846  | 3.7      | 37.6  | 45    |
| 0.55       | 1.1      | 26.3  | 44.9  | 28.8  | 0     | 0.16     | 0.17769007 | 0       | 410    | 1.3453958  | 0.15       | 0.55       | 1.1      | 26.3  | 44.9  |
| 1.75210562 | 2.8      | 15.1  | 60.4  | 24.5  | 0     | 0.16     | 0.20965315 | 0       | 220    | 1.37604562 | 0.17191749 | 1.19507345 | 1.5      | 19.3  | 59.6  |
| 0.18682    | 3.6      | 53.1  | 27    | 19.9  | 20    | 0.09     | 0.14677491 | 0       | 170    | 1.22357256 | 0.13319588 | 0.17479039 | 2.8      | 55.3  | 22.5  |
| 0.59917913 | 4.5      | 28.5  | 56.9  | 14.6  | 0     | 0.16     | 0.23454914 | 0       | 260    | 1.29740949 | 0.1701502  | 0.50620742 | 3.3      | 30.6  | 54    |
| 0.96962078 | 1.9      | 18.9  | 40.1  | 41    | 0     | 0.09     | 0.17445767 | 0       | 320    | 1.42102065 | 0.13401704 | 0.96526316 | 2.1      | 18.8  | 38.7  |
| 0.61568542 | 2.1      | 25.4  | 47.4  | 27.2  | 22    | 0.09     | 0.17943651 | 0       | 380    | 1.34090663 | 0.15973356 | 0.62513525 | 2.1      | 25.7  | 49.6  |
| 0.62       | 2        | 26.3  | 51.1  | 22.6  | 0     | 0.16     | 0.19061537 | 0       | 320    | 1.3419142  | 0.16       | 0.7        | 3.3      | 24.8  | 52.7  |
| 0.80917556 | 1.4      | 20.4  | 36.9  | 42.7  | 0     | 0.09     | 0.17249861 | 0       | 600    | 1.3659148  | 0.14994429 | 0.68120025 | 0.6      | 23.6  | 45.2  |
| 1.27       | 3.3      | 19.9  | 66.7  | 13.4  | 0     | 0.23     | 0.28369783 | 0       | 350    | 1.32096968 | 0.17906592 | 0.85064821 | 1.3      | 24.8  | 63.6  |
| 1.18614314 | 2.3      | 19.2  | 58.5  | 22.3  | 0     | 0.09     | 0.20922229 | 0       | 500    | 1.32064864 | 0.17190763 | 0.67570936 | 1.1      | 26.5  | 57    |
| 3.21317913 | 3.8      | 8.4   | 43    | 48.6  | 0     | 0.195    | 0.18487243 | 0       | 410    | 1.41331534 | 0.13039317 | 0.8276229  | 1.1      | 20.1  | 36.3  |
| 0.34758074 | 4.7      | 34    | 43.9  | 22.9  | 0     | 0.16     | 0.17509124 | 0       | 240    | 1.2512432  | 0.15782956 | 0.26113502 | 1.7      | 42.4  | 41.3  |
| 1.38       | 4.9      | 15.5  | 39.6  | 44.9  | 0     | 0.16     | 0.17674519 | 0       | 220    | 1.42122448 | 0.12777333 | 0.86755747 | 1.6      | 19.5  | 35.1  |
| 1.20004383 | 6.9      | 20.7  | 66.9  | 12.4  | 0     | 0.16     | 0.29287318 | 0       | 250    | 1.32885937 | 0.17800154 | 0.88358172 | 3.4      | 24    | 62.8  |
| 0.94860007 | 5.5      | 21.1  | 54    | 24.9  | 0     | 0.16     | 0.1934474  | 0       | 400    | 1.32277657 | 0.16684032 | 0.60340544 | 2.8      | 27.2  | 53.2  |
| 1.72937524 | 1.6      | 13.4  | 36.8  | 49.8  | 0     | 0.16     | 0.17836207 | 0       | 700    | 1.48160629 | 0.12404055 | 1.59101508 | 0.7      | 14    | 34.5  |
| 0.52       | 4.5      | 30.7  | 55.8  | 13.5  | 0     | 0.23     | 0.23762507 | 0       | 270    | 1.24532747 | 0.17010223 | 0.35473179 | 2.1      | 39.6  | 52.4  |
| 1.85857601 | 3.5      | 16    | 71.1  | 12.9  | 0     | 0.23     | 0.31045951 | 0       | 230    | 1.29657524 | 0.17794152 | 0.65413621 | 3.4      | 28.6  | 61.6  |
| 0.43390888 | 8        | 34.7  | 55.1  | 10.2  | 0     | 0.09     | 0.26212203 | 0       | 160    | 1.2673713  | 0.16921576 | 0.38210179 | 7.9      | 36.1  | 51.5  |
| 0.92197856 | 2.1      | 23.2  | 62.1  | 14.7  | 0     | 0.09     | 0.25404197 | 0       | 460    | 1.38411164 | 0.18236723 | 1.62190473 | 1        | 17    | 67.4  |
| 2.3        | 6.6      | 13.2  | 69    | 17.8  | 0     | 0.16     | 0.26595829 | 0       | 340    | 1.33111292 | 0.18       | 1.09       | 0.8      | 22.4  | 68.5  |
| 0.8354663  | 2.1      | 21.9  | 49.8  | 28.3  | 15    | 0.23     | 0.18315929 | 0       | 260    | 1.37968768 | 0.15126899 | 0.82100325 | 1.1      | 21.6  | 46.8  |
| 0.36825747 | 0        | 34.6  | 47.2  | 18.2  | 0     | 0.23     | 0.1956622  | 0       | 380    | 1.28474838 | 0.16277122 | 0.36825747 | 0.9      | 34.6  | 47.2  |
| 0.32483025 | 18.5     | 32.4  | 35.4  | 32.2  | 0     | 0.055    | 0.16176289 | 0       | 180    | 1.32129709 | 0.13976895 | 0.32483025 | 1.8      | 32.4  | 35.4  |
| 2.25425273 | 0        | 11.3  | 39.4  | 49.3  | 0     | 0.16     | 0.18544016 | 0       | 140    | 1.50884275 | 0.13261897 | 2.25425273 | 3.8      | 11.3  | 39.4  |
| 0.35620236 | 16.5     | 40.6  | 53.4  | 6     | 0     | 0.09     | 0.30918428 | 0       | 210    | 1.2378221  | 0.17044057 | 0.35620236 | 3.5      | 40.6  | 53.4  |











| OBJECTID | MUID   | SEQN | SNAM     | SSID | CMPPCT | NLAYERS | HYDGRP | SOL_ZMX | NIION | EXC | SOL_CRK     | TEXTURE | SOL_Z1 | SOL_BD1  | SOL_AWC1 | SOL_K1   | SOL_CBN1 | CLAY1 | SILT1 | SAND1 | ROCK1 | SOL_ALB1 |
|----------|--------|------|----------|------|--------|---------|--------|---------|-------|-----|-------------|---------|--------|----------|----------|----------|----------|-------|-------|-------|-------|----------|
| 203      | 432    | 1    | 1432SLO  | 1    | 1      | 3       | C      | 700     | 0.5   | 0.5 | I-MI        | 280     | 1.47   | 0.178755 | 14.3309  | 1.8      | 30       | 35    | 35    | 0     | 0.23  |          |
| 204      | 528    | 1    | 1528SLO  | 1    | 1      | 4       | B      | 600     | 0.5   | 0.5 | MI          | 210     | 1.3    | 0.250257 | 21.92414 | 3.2      | 15       | 69    | 16    | 0     | 0.23  |          |
| 205      | 553    | 1    | 1553SLO  | 1    | 1      | 4       | B      | 500     | 0.5   | 0.5 | MI-GI-MI    | 370     | 1.52   | 0.226423 | 8.829069 | 0.98     | 15.8     | 66.4  | 17.8  | 0     | 0.23  |          |
| 206      | 567    | 1    | 1567SLO  | 1    | 1      | 5       | D      | 400     | 0.5   | 0.5 | MI-GI-G     | 200     | 1.3    | 0.107253 | 6.904023 | 3.7      | 24.2     | 50.9  | 24.9  | 0     | 0.16  |          |
| 208      | 1037   | 1    | 11037SLO | 1    | 1      | 4       | B      | 500     | 0.5   | 0.5 | I-GI        | 250     | 1.58   | 0.166838 | 8.341866 | 1.2      | 20       | 45    | 35    | 5     | 0.16  |          |
| 209      | 1051   | 1    | 11051SLO | 1    | 1      | 4       | B      | 600     | 0.5   | 0.5 | MI          | 210     | 1.3    | 0.250257 | 23.11244 | 3.2      | 15       | 69    | 16    | 0     | 0.23  |          |
| 210      | 1053   | 1    | 11053SLO | 1    | 1      | 4       | B      | 500     | 0.5   | 0.5 | MI-MI-GI    | 250     | 1.48   | 0.226423 | 11.14625 | 1.4      | 16       | 66    | 18    | 0     | 0.23  |          |
| 211      | 1131   | 1    | 11131SLO | 1    | 1      | 5       | B      | 1100    | 0.5   | 0.5 | PI-PG-G     | 200     | 1.52   | 0.11917  | 34.65083 | 1.74     | 13.7     | 27.1  | 59.2  | 30    | 0.09  |          |
| 212      | 1328   | 1    | 11328SLO | 1    | 1      | 4       | B      | 500     | 0.5   | 0.5 | I-GI-MG     | 250     | 1.59   | 0.154921 | 8.056674 | 1.2      | 20       | 45    | 35    | 5     | 0.09  |          |
| 213      | 1408   | 1    | 11408SLO | 1    | 1      | 3       | B      | 300     | 0.5   | 0.5 | I-PHP       | 280     | 1.54   | 0.143004 | 23.46893 | 1.27     | 16       | 33.4  | 50.6  | 2     | 0.23  |          |
| 214      | 1409   | 1    | 11409SLO | 1    | 1      | 3       | B      | 300     | 0.5   | 0.5 | I-PHP       | 280     | 1.54   | 0.071502 | 9.38757  | 1.27     | 16       | 33.4  | 50.6  | 2     | 0.23  |          |
| 215      | 1410   | 1    | 11410SLO | 1    | 1      | 4       | C      | 400     | 0.5   | 0.5 | I-PG        | 50      | 1.31   | 0.166838 | 20.04662 | 5.2      | 25       | 30    | 45    | 5     | 0.16  |          |
| 216      | 1411   | 1    | 11411SLO | 1    | 1      | 3       | B      | 300     | 0.5   | 0.5 | I-PHP       | 280     | 1.54   | 0.143004 | 22.76783 | 1.27     | 16       | 33.4  | 50.6  | 2     | 0.23  |          |
| 217      | 1412   | 1    | 11412SLO | 1    | 1      | 4       | C      | 400     | 0.5   | 0.5 | I-GI        | 220     | 1.51   | 0.178755 | 8.959782 | 1.04     | 21.5     | 47.9  | 30.6  | 5     | 0.09  |          |
| 218      | 1414   | 1    | 11414SLO | 1    | 1      | 5       | B      | 1100    | 0.5   | 0.5 | PI-PGI-G-MI | 200     | 1.52   | 0.11917  | 32.11975 | 1.74     | 13.7     | 27.1  | 59.2  | 30    | 0.09  |          |
| 219      | 1415   | 1    | 11415SLO | 1    | 1      | 5       | C      | 1000    | 0.5   | 0.5 | I-PGI-G     | 240     | 1.54   | 0.154921 | 26.93876 | 1.2      | 13.3     | 39.4  | 47.3  | 0     | 0.16  |          |
| 220      | 1416   | 1    | 11416SLO | 1    | 1      | 5       | C      | 1000    | 0.5   | 0.5 | I-PGI-GI-G  | 240     | 1.54   | 0.154921 | 26.93876 | 1.2      | 13.3     | 39.4  | 47.3  | 0     | 0.16  |          |
| 221      | 87022  | 1    | 187022A  | 1    | 1      | 3       | B      | 750     | 0.5   | 0.5 | MG-MI       | 200     | 1.37   | 0.214506 | 14.48538 | 1.686047 | 21       | 63    | 16    | 0     | 0.16  |          |
| 222      | 87029  | 1    | 187029A  | 1    | 1      | 3       | B      | 900     | 0.5   | 0.5 | PI-MI-H     | 250     | 1.54   | 0.166838 | 4.004571 | 1.511628 | 25       | 50    | 25    | 10    | 0.16  |          |
| 224      | 103011 | 1    | 1103011A | 1    | 1      | 4       | D      | 600     | 0.5   | 0.5 | MG          | 300     | 1.23   | 0.226423 | 17.28977 | 2.209902 | 23       | 66    | 11    | 0     | 0.09  |          |
| 225      | 103012 | 1    | 1103012A | 1    | 1      | 3       | C      | 1000    | 0.5   | 0.5 | MG-IP       | 300     | 1.46   | 0.190672 | 10.99178 | 0.930233 | 19       | 56    | 25    | 0     | 0.16  |          |
| 226      | 103013 | 1    | 1103013A | 1    | 1      | 5       | C      | 700     | 0.5   | 0.5 | MG-PHP-MI   | 250     | 1.5    | 0.190672 | 13.74863 | 0.813953 | 15       | 58    | 27    | 0     | 0.16  |          |
| 227      | 103014 | 1    | 1103014A | 1    | 1      | 4       | D      | 850     | 0.5   | 0.5 | MI-H        | 150     | 1.15   | 0.178755 | 11.82359 | 2.674419 | 41       | 56    | 3     | 0     | 0.23  |          |
| 228      | 103015 | 1    | 1103015A | 1    | 1      | 4       | D      | 1000    | 0.5   | 0.5 | PI-MI       | 50      | 1.2    | 0.202589 | 27.62798 | 0.906977 | 21       | 52    | 27    | 0     | 0.16  |          |
| 229      | 103016 | 1    | 1103016A | 1    | 1      | 4       | D      | 800     | 0.5   | 0.5 | MI-MG       | 100     | 0.97   | 0.190672 | 32.40494 | 7.906977 | 37       | 58    | 5     | 0     | 0.16  |          |
| 230      | 103017 | 1    | 1103017A | 1    | 1      | 3       | D      | 500     | 0.5   | 0.5 | MG-MI       | 100     | 0.88   | 0.262174 | 62.71847 | 5.116279 | 21       | 66    | 13    | 0     | 0.09  |          |
| 231      | 103018 | 1    | 1103018A | 1    | 1      | 4       | D      | 700     | 0.5   | 0.5 | PI-H        | 100     | 1.28   | 0.202589 | 30.20659 | 2.325581 | 16       | 53    | 31    | 0     | 0.16  |          |
| 232      | 103019 | 1    | 1103019A | 1    | 1      | 3       | C      | 500     | 0.5   | 0.5 | IP-P        | 250     | 1.56   | 0.143004 | 18.51371 | 1.162791 | 14       | 42    | 44    | 10    | 0.16  |          |
| 233      | 103020 | 1    | 1103020A | 1    | 1      | 4       | B      | 1000    | 0.5   | 0.5 | MG-IP       | 200     | 1.43   | 0.190672 | 30.14717 | 1.337209 | 10       | 56    | 34    | 0     | 0.16  |          |
| 234      | 103021 | 1    | 1103021A | 1    | 1      | 4       | B      | 1200    | 0.5   | 0.5 | PI-HP       | 200     | 1.55   | 0.131087 | 10.92048 | 0.755814 | 21       | 33    | 46    | 10    | 0.16  |          |
| 235      | 103022 | 1    | 1103022A | 1    | 1      | 3       | B      | 1500    | 0.5   | 0.5 | PI-PI-P     | 200     | 1.63   | 0.11917  | 18.35924 | 1.511628 | 14       | 35    | 51    | 15    | 0.09  |          |
| 236      | 103023 | 1    | 1103023A | 1    | 1      | 3       | B      | 400     | 0.5   | 0.5 | IP          | 200     | 1.63   | 0.131087 | 15.68556 | 1.802326 | 14       | 41    | 45    | 15    | 0.09  |          |
| 237      | 103024 | 1    | 1103024A | 1    | 1      | 4       | B      | 1700    | 0.5   | 0.5 | PI-H        | 150     | 1.53   | 0.166838 | 11.78794 | 1.27907  | 20       | 43    | 37    | 0     | 0.16  |          |
| 238      | 103025 | 1    | 1103025A | 1    | 1      | 3       | B      | 1700    | 0.5   | 0.5 | PI-HP       | 250     | 1.58   | 0.154921 | 8.021025 | 1.337209 | 21       | 42    | 37    | 10    | 0.09  |          |
| 239      | 103026 | 1    | 1103026A | 1    | 1      | 3       | B      | 600     | 0.5   | 0.5 | MG-MG-PI    | 250     | 1.44   | 0.214506 | 17.70567 | 1.162791 | 14       | 62    | 24    | 0     | 0.16  |          |
| 240      | 103027 | 1    | 1103027A | 1    | 1      | 3       | C      | 1200    | 0.5   | 0.5 | PI-MI       | 150     | 1.54   | 0.166838 | 6.642597 | 1.27907  | 24       | 42    | 34    | 5     | 0.16  |          |
| 241      | 103028 | 1    | 1103028A | 1    | 1      | 4       | B      | 800     | 0.5   | 0.5 | PI-PI       | 200     | 1.42   | 0.178755 | 13.16636 | 1.337209 | 22       | 46    | 32    | 0     | 0.16  |          |
| 242      | 103029 | 1    | 1103029A | 1    | 1      | 3       | B      | 500     | 0.5   | 0.5 | PI-PI       | 200     | 1.38   | 0.190672 | 32.26235 | 1.744186 | 13       | 50    | 37    | 0     | 0.16  |          |
| 243      | 103030 | 1    | 1103030A | 1    | 1      | 4       | B      | 1800    | 0.5   | 0.5 | MG-I        | 150     | 1.35   | 0.23834  | 12.9287  | 1.453488 | 19       | 70    | 11    | 5     | 0.16  |          |
| 244      | 103031 | 1    | 1103031A | 1    | 1      | 3       | B      | 550     | 0.5   | 0.5 | MG-I        | 200     | 1.45   | 0.214506 | 23.51646 | 1.162791 | 11       | 61    | 28    | 5     | 0.16  |          |
| 245      | 103032 | 1    | 1103032A | 1    | 1      | 4       | B      | 1000    | 0.5   | 0.5 | I-GI        | 200     | 1.35   | 0.190672 | 7.355577 | 1.453488 | 31       | 50    | 19    | 0     | 0.16  |          |
| 246      | 103033 | 1    | 1103033A | 1    | 1      | 4       | B      | 500     | 0.5   | 0.5 | MG-MI       | 200     | 1.41   | 0.226423 | 21.73401 | 1.337209 | 12       | 65    | 23    | 0     | 0.16  |          |
| 247      | 103035 | 1    | 1103035A | 1    | 1      | 3       | B      | 1000    | 0.5   | 0.5 | MG-PI-H     | 250     | 1.52   | 0.190672 | 15.11518 | 0.697674 | 14       | 57    | 29    | 0     | 0.16  |          |
| 248      | 103036 | 1    | 1103036A | 1    | 1      | 2       | B      | 250     | 0.5   | 0.5 | I-GI        | 250     | 1.31   | 0.23834  | 21.68648 | 1.860465 | 16       | 66    | 18    | 0     | 0.16  |          |
| 249      | 103037 | 1    | 1103037A | 1    | 1      | 4       | C      | 650     | 0.5   | 0.5 | I-MG-GI     | 250     | 1.33   | 0.190672 | 6.523767 | 1.395349 | 33       | 52    | 15    | 5     | 0.16  |          |
| 250      | 103038 | 1    | 1103038A | 1    | 1      | 3       | C      | 400     | 0.5   | 0.5 | GI-G        | 200     | 1.26   | 0.178755 | 5.501829 | 1.627907 | 42       | 49    | 9     | 5     | 0.09  |          |
| 251      | 103039 | 1    | 1103039A | 1    | 1      | 2       | C      | 400     | 0.5   | 0.5 | MG-MI       | 250     | 1.27   | 0.23834  | 13.09507 | 1.802326 | 24       | 68    | 8     | 0     | 0.16  |          |
| 252      | 103040 | 1    | 1103040A | 1    | 1      | 3       | A      | 700     | 0.5   | 0.5 | PI-P        | 200     | 1.52   | 0.143004 | 13.2139  | 0.813953 | 21       | 35    | 44    | 0     | 0.16  |          |
| 253      | 103041 | 1    | 1103041A | 1    | 1      | 3       | C      | 500     | 0.5   | 0.5 | MI-GI       | 250     | 1.41   | 0.190672 | 5.870202 | 0.930233 | 29       | 52    | 19    | 0     | 0.16  |          |
| 254      | 103042 | 1    | 1103042A | 1    | 1      | 2       | C      | 1000    | 0.5   | 0.5 | MG-MI       | 250     | 1.44   | 0.214506 | 13.65357 | 1.104651 | 17       | 61    | 22    | 0     | 0.16  |          |
| 255      | 103043 | 1    | 1103043A | 1    | 1      | 3       | C      | 1000    | 0.5   | 0.5 | PI-H        | 150     | 1.39   | 0.190672 | 12.95247 | 1.511628 | 23       | 49    | 28    | 0     | 0.09  |          |
| 256      | 103045 | 1    | 1103045A | 1    | 1      | 2       | B      | 800     | 0.5   | 0.5 | IP          | 550     | 1.47   | 0.166838 | 5.46618  | 0.697674 | 29       | 40    | 31    | 0     | 0.16  |          |
| 257      | 103047 | 1    | 1103047A | 1    | 1      | 4       | B      | 800     | 0.5   | 0.5 | I-MI        | 250     | 1.31   | 0.166838 | 6.749544 | 2.093023 | 36       | 39    | 25    | 5     | 0.09  |          |
| 258      | 103048 | 1    | 1103048A | 1    | 1      | 4       | B      | 1000    | 0.5   | 0.5 | PI          | 150     | 1.44   | 0.154921 | 22.30439 | 1.744186 | 19       | 37    | 44    | 5     | 0.16  |          |
| 262      | 125019 | 1    | 1125019A | 1    | 1      | 4       | B      | 1000    | 0.5   | 0.5 | IP-PI-MI    | 250     | 1.55   | 0.143004 | 20.09415 | 1.22093  | 14       | 41    | 45    | 5     | 0.16  |          |
| 263      | 125020 | 1    | 1125020A | 1    | 1      | 3       | B      | 800     | 0.5   | 0.5 | MG-PI-H     | 250     | 1.33   | 0.214506 | 16.44607 | 1.744186 | 21       | 58    | 21    | 0     | 0.16  |          |
| 264      | 125021 | 1    | 1125021A | 1    | 1      | 3       | B      | 600     | 0.5   | 0.5 | MG-MI-IP    | 200     | 1.22   | 0.226423 | 18.35924 | 2.325581 | 24       | 63    | 13    | 0     | 0.16  |          |
| 265      | 125022 | 1    | 1125022A | 1    | 1      | 3       | C      | 1000    | 0.5   | 0.5 | PI-MG-IP    | 100     | 1.03   | 0.226423 | 49.18374 | 4.069767 | 20       | 55    | 25    | 5     | 0.16  |          |
| 266      | 125023 | 1    | 1125023A | 1    | 1      | 4       | D      | 800     | 0.5   | 0.5 | MG-MI-H     | 50      | 1.17   | 0.262174 | 31.98904 | 2.55814  | 15       | 74    | 11    | 0     | 0.16  |          |
| 267      | 125024 | 1    | 1125024A | 1    | 1      | 3       | D      | 500     | 0.5   | 0.5 | MI-GI       | 100     | 0.98   | 0.23834  | 37.3245  | 3.953488 | 28       | 66    | 6     | 0     | 0.16  |          |
| 268      | 125025 | 1    | 1125025A | 1    | 1      | 3       | B      | 550     | 0.5   | 0.5 | PI          | 50      | 1.26   | 0.202589 | 26.48721 | 2.55814  | 20       | 49    | 31    | 0     | 0.09  |          |
| 269      | 125026 | 1    | 1125026A | 1    | 1      | 3       | B      | 500     | 0.5   | 0.5 | IP          | 200     | 1.53   | 0.143004 | 16.5649  | 0.755814 | 12       | 52    | 36    | 30    | 0.16  |          |
| 270      | 125027 | 1    | 1125027A | 1    | 1      | 4       | B      | 1100    | 0.5   | 0.5 | PI-H        | 200     | 1.54   | 0.107253 | 9.435102 | 0.639535 | 15       | 48    | 37    | 5     | 0.16  |          |
| 271      | 125028 | 1    | 1125028A | 1    | 1      | 3       | B      | 1100    | 0.5   | 0.5 | IP-PI       | 200     | 1.56   | 0.083419 | 24.89489 | 0.639535 | 14       | 23    | 63    | 30    |       |          |



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|          |   |      |      |          |          |        |      |      |      |    |      |          |   |      |      |          |
|----------|---|------|------|----------|----------|--------|------|------|------|----|------|----------|---|------|------|----------|
| 0.129369 | 0 | 420  | 1.49 | 0.190672 | 11.19379 | 1.3    | 20   | 50   | 30   | 0  | 0.23 | 0.158946 | 0 | 810  | 1.58 | 0.202589 |
| 0.201053 | 0 | 410  | 1.49 | 0.226423 | 4.955211 | 0.7    | 22   | 66   | 12   | 0  | 0.3  | 0.272029 | 0 | 620  | 1.54 | 0.226423 |
| 0.229849 | 0 | 560  | 1.49 | 0.214506 | 4.016454 | 0.6    | 24.1 | 62.3 | 13.6 | 0  | 0.3  | 0.2495   | 0 | 800  | 1.47 | 0.202589 |
| 0.142243 | 0 | 400  | 1.45 | 0.166838 | 5.573127 | 1.4    | 29.4 | 42   | 28.6 | 5  | 0.23 | 0.144678 | 0 | 610  | 1.53 | 0.11917  |
| 0.158391 | 0 | 420  | 1.51 | 0.178755 | 7.034736 | 0.87   | 23   | 49   | 28   | 5  | 0.16 | 0.175132 | 0 | 580  | 1.49 | 0.178755 |
| 0.201053 | 0 | 410  | 1.49 | 0.226423 | 4.955211 | 0.7    | 22   | 66   | 12   | 0  | 0.3  | 0.272029 | 0 | 620  | 1.54 | 0.226423 |
| 0.204329 | 0 | 420  | 1.44 | 0.214506 | 7.296162 | 0.7    | 24   | 62   | 14   | 0  | 0.3  | 0.243563 | 0 | 580  | 1.48 | 0.202589 |
| 0.137258 | 0 | 480  | 1.57 | 0.11917  | 19.25046 | 0.95   | 19.1 | 23   | 57.9 | 50 | 0.3  | 0.154624 | 0 | 720  | 1.57 | 0.131087 |
| 0.158391 | 0 | 460  | 1.51 | 0.178755 | 7.034736 | 0.87   | 23   | 49   | 28   | 5  | 0.09 | 0.175132 | 0 | 700  | 1.49 | 0.178755 |
| 0.15256  | 0 | 740  | 1.6  | 0.107253 | 34.27057 | 0.6    | 12.8 | 24.8 | 62.4 | 2  | 0.3  | 0.17104  | 0 | 1100 | 1.59 | 0.059585 |
| 0.15256  | 0 | 740  | 1.6  | 0.059585 | 13.71298 | 0.6    | 12.8 | 24.8 | 62.4 | 2  | 0.3  | 0.17104  | 0 | 1100 | 1.55 | 0.059585 |
| 0.125079 | 0 | 190  | 1.39 | 0.11917  | 4.325412 | 1.8    | 35   | 15   | 50   | 15 | 0.3  | 0.107976 | 0 | 430  | 1.36 | 0.071502 |
| 0.15256  | 0 | 740  | 1.6  | 0.107253 | 33.26052 | 0.6    | 12.8 | 24.8 | 62.4 | 2  | 0.3  | 0.17104  | 0 | 1100 | 1.58 | 0.059585 |
| 0.167356 | 0 | 370  | 1.64 | 0.178755 | 3.469836 | 0.64   | 32.1 | 44.4 | 23.5 | 2  | 0.23 | 0.174711 | 0 | 550  | 1.5  | 0.178755 |
| 0.137258 | 0 | 480  | 1.57 | 0.059585 | 7.819014 | 0.95   | 19.1 | 23   | 57.9 | 50 | 0.3  | 0.154624 | 0 | 720  | 1.57 | 0.95336  |
| 0.160424 | 0 | 470  | 1.57 | 0.107253 | 6.012798 | 0.9    | 30.3 | 8.7  | 61   | 0  | 0.3  | 0.15     | 0 | 680  | 1.51 | 0.143004 |
| 0.160424 | 0 | 470  | 1.57 | 0.107253 | 6.012798 | 0.9    | 30.3 | 8.7  | 61   | 0  | 0.3  | 0.15     | 0 | 680  | 1.51 | 0.143004 |
| 0.243921 | 0 | 500  | 1.42 | 0.202589 | 3.137112 | 0.3488 | 32   | 60   | 8    | 0  | 0.23 | 0.219188 | 0 | 2000 | 1.43 | 0.214506 |
| 0.140941 | 0 | 700  | 1.35 | 0.190672 | 9.779709 | 0.3488 | 26   | 55   | 19   | 0  | 0.16 | 0.156    | 0 | 2000 | 1.3  | 0.178755 |
| 0.216093 | 0 | 600  | 1.45 | 0.214506 | 3.826326 | 0.4651 | 25   | 68   | 7    | 0  | 0.23 | 0.25199  | 0 | 800  | 1.45 | 0.214506 |
| 0.199664 | 0 | 550  | 1.6  | 0.143004 | 18.22852 | 0.2326 | 13   | 44   | 43   | 0  | 0.23 | 0.1392   | 0 | 2000 | 1.62 | 0.143004 |
| 0.151517 | 0 | 500  | 1.55 | 0.166838 | 10.26691 | 0.407  | 18   | 49   | 33   | 0  | 0.23 | 0.139314 | 0 | 700  | 1.6  | 0.095336 |
| 0.351075 | 0 | 700  | 1.31 | 0.190672 | 4.313529 | 0.9302 | 37   | 59   | 4    | 0  | 0.23 | 0.257386 | 0 | 850  | 1.39 | 0.190672 |
| 0.142849 | 0 | 350  | 1.44 | 0.190672 | 9.803475 | 1.0465 | 22   | 53   | 25   | 0  | 0.23 | 0.145175 | 0 | 1000 | 1.31 | 0.190672 |
| 0.323613 | 0 | 450  | 0.95 | 0.202589 | 35.45887 | 1.0465 | 37   | 61   | 2    | 0  | 0.23 | 0.289957 | 0 | 800  | 1.41 | 0.214506 |
| 0.27316  | 0 | 300  | 1.17 | 0.202589 | 17.70567 | 2.7907 | 29   | 70   | 1    | 0  | 0.16 | 0.322973 | 0 | 2000 | 1.09 | 0.214506 |
| 0.143572 | 0 | 350  | 1.47 | 0.178755 | 12.76234 | 0.9884 | 19   | 50   | 31   | 0  | 0.23 | 0.140045 | 0 | 700  | 1.46 | 0.178755 |
| 0.137861 | 0 | 500  | 1.57 | 0.154921 | 16.39854 | 0.407  | 15   | 43   | 42   | 10 | 0.23 | 0.137546 | 0 | 2000 | 1.61 | 0.214506 |
| 0.193007 | 0 | 500  | 1.59 | 0.166838 | 19.91591 | 0.3488 | 11   | 50   | 39   | 0  | 0.16 | 0.14274  | 0 | 1000 | 1.6  | 0.154921 |
| 0.172559 | 0 | 450  | 1.59 | 0.143004 | 10.40951 | 0.1744 | 20   | 36   | 44   | 0  | 0.23 | 0.13149  | 0 | 600  | 1.63 | 0.131087 |
| 0.135486 | 0 | 450  | 1.59 | 0.131087 | 20.1298  | 0.3488 | 17   | 29   | 54   | 0  | 0.16 | 0.130347 | 0 | 2000 | 1.58 | 0.071502 |
| 0.143086 | 0 | 400  | 1.54 | 0.143004 | 11.82359 | 0.5814 | 20   | 36   | 44   | 55 | 0.23 | 0.13149  | 0 | 0    | 0    | 0        |
| 0.179547 | 0 | 350  | 1.52 | 0.166838 | 7.533822 | 0.4651 | 24   | 43   | 33   | 0  | 0.16 | 0.132906 | 0 | 550  | 1.53 | 0.166838 |
| 0.133632 | 0 | 1000 | 1.62 | 0.143004 | 25.63163 | 0.1744 | 10   | 43   | 47   | 15 | 0.09 | 0.141033 | 0 | 0    | 0    | 0        |
| 0.215479 | 0 | 600  | 1.51 | 0.202589 | 5.882085 | 0.407  | 21   | 61   | 18   | 0  | 0.23 | 0.171392 | 0 | 2000 | 1.55 | 0.190672 |
| 0.132237 | 0 | 450  | 1.54 | 0.154921 | 6.274224 | 0.6977 | 25   | 40   | 35   | 5  | 0.16 | 0.130564 | 0 | 2000 | 1.43 | 0.202589 |
| 0.1358   | 0 | 350  | 1.48 | 0.178755 | 8.55576  | 0.7558 | 23   | 48   | 29   | 0  | 0.16 | 0.13759  | 0 | 700  | 1.49 | 0.178755 |
| 0.141786 | 0 | 500  | 1.56 | 0.166838 | 16.7788  | 0.5233 | 15   | 46   | 39   | 0  | 0.16 | 0.138752 | 0 | 2000 | 1.59 | 0.143004 |
| 0.229524 | 0 | 350  | 1.34 | 0.226423 | 11.33638 | 0.6395 | 22   | 67   | 11   | 0  | 0.16 | 0.219336 | 0 | 650  | 1.48 | 0.226423 |
| 0.155797 | 0 | 550  | 1.54 | 0.214506 | 5.691957 | 0.2907 | 19   | 64   | 17   | 5  | 0.16 | 0.182187 | 0 | 2000 | 1.5  | 0.214506 |
| 0.146894 | 0 | 550  | 1.3  | 0.154921 | 1.568556 | 0.2907 | 50   | 38   | 12   | 0  | 0.23 | 0.142633 | 0 | 2000 | 1.44 | 0.178755 |
| 0.1698   | 0 | 300  | 1.5  | 0.214506 | 15.50732 | 0.814  | 13   | 62   | 25   | 0  | 0.16 | 0.160345 | 0 | 500  | 1.5  | 0.202589 |
| 0.149087 | 0 | 700  | 1.5  | 0.190672 | 8.056674 | 0.5814 | 21   | 54   | 25   | 0  | 0.16 | 0.146657 | 0 | 2000 | 1.44 | 0.190672 |
| 0.184546 | 0 | 2000 | 1.43 | 0.202589 | 3.137112 | 0.3488 | 31   | 59   | 10   | 0  | 0.23 | 0.201547 | 0 | 0    | 0    | 0        |
| 0.160177 | 0 | 400  | 1.43 | 0.178755 | 3.339123 | 0.4651 | 33   | 50   | 17   | 0  | 0.16 | 0.150777 | 0 | 650  | 1.28 | 0.154921 |
| 0.243043 | 0 | 300  | 1.2  | 0.143004 | 1.616088 | 0.3488 | 59   | 33   | 8    | 0  | 0.23 | 0.152228 | 0 | 2000 | 1.19 | 0.131087 |
| 0.2437   | 0 | 2000 | 1.46 | 0.226423 | 2.436015 | 0.1744 | 27   | 71   | 2    | 0  | 0.23 | 0.312255 | 0 | 0    | 0    | 0        |
| 0.130368 | 0 | 350  | 1.63 | 0.11917  | 32.66637 | 0.0581 | 11   | 31   | 58   | 0  | 0.3  | 0.136288 | 0 | 2000 | 1.63 | 0.095336 |
| 0.150403 | 0 | 400  | 1.38 | 0.178755 | 2.13894  | 0.2326 | 40   | 49   | 11   | 0  | 0.23 | 0.170151 | 0 | 2000 | 1.29 | 0.166838 |
| 0.162575 | 0 | 2000 | 1.46 | 0.166838 | 2.424132 | 0.1744 | 35   | 64   | 1    | 0  | 0.23 | 0.31162  | 0 | 0    | 0    | 0        |
| 0.138824 | 0 | 600  | 1.49 | 0.178755 | 6.583182 | 0.5814 | 25   | 47   | 28   | 0  | 0.16 | 0.136416 | 0 | 2000 | 1.49 | 0.178755 |
| 0.128998 | 0 | 2000 | 1.62 | 0.107253 | 34.99544 | 0.1163 | 11   | 29   | 60   | 0  | 0.16 | 0.135228 | 0 | 0    | 0    | 0        |
| 0.127008 | 0 | 500  | 1.42 | 0.190672 | 3.826326 | 0.5814 | 32   | 52   | 16   | 5  | 0.09 | 0.15718  | 0 | 850  | 1.36 | 0.202589 |
| 0.132593 | 0 | 700  | 1.57 | 0.143004 | 8.413164 | 0.2907 | 22   | 36   | 42   | 15 | 0.16 | 0.130181 | 0 | 1000 | 1.54 | 0.143004 |
| 0.183376 | 0 | 450  | 1.6  | 0.154921 | 10.0649  | 0.1163 | 16   | 49   | 35   | 5  | 0.16 | 0.139945 | 0 | 1000 | 0    | 0        |
| 0.158164 | 0 | 600  | 1.45 | 0.190672 | 8.484462 | 0.8721 | 23   | 53   | 24   | 5  | 0.23 | 0.145875 | 0 | 2000 | 1.37 | 0.190672 |
| 0.195771 | 0 | 600  | 1.32 | 0.190672 | 3.826326 | 0.7558 | 38   | 58   | 4    | 0  | 0.23 | 0.254775 | 0 | 2000 | 1.54 | 0.095336 |
| 0.14818  | 0 | 400  | 1.42 | 0.202589 | 7.521939 | 0.9302 | 24   | 59   | 17   | 0  | 0.23 | 0.169504 | 0 | 2000 | 1.61 | 0.131087 |
| 0.244287 | 0 | 300  | 1.44 | 0.226423 | 9.542049 | 0.9302 | 18   | 68   | 14   | 0  | 0.23 | 0.2064   | 0 | 800  | 1.34 | 0.202589 |
| 0.254934 | 0 | 500  | 1.33 | 0.321759 | 3.600549 | 0.6395 | 37   | 61   | 2    | 0  | 0.23 | 0.289957 | 0 | 2000 | 1.26 | 0.166838 |
| 0.138906 | 0 | 550  | 1.5  | 0.166838 | 9.530166 | 0.6977 | 22   | 45   | 33   | 0  | 0.09 | 0.135029 | 0 | 2000 | 1.53 | 0.166838 |
| 0.143469 | 0 | 350  | 1.64 | 0.131087 | 11.27697 | 0      | 13   | 48   | 39   | 50 | 0.16 | 0.140745 | 0 | 0    | 0    | 0        |
| 0.186328 | 0 | 500  | 1.59 | 0.095336 | 5.870202 | 0.1744 | 20   | 37   | 43   | 5  | 0.23 | 0.131926 | 0 | 700  | 1.53 | 0.107253 |
| 0.128355 | 0 | 450  | 1.62 | 0.095336 | 8.211153 | 0      | 22   | 24   | 54   | 50 | 0.23 | 0.123148 | 0 | 2000 | 1.59 | 0.131087 |
| 0.136226 | 0 | 450  | 1.56 | 0.11917  | 11.65722 | 0.5233 | 18   | 37   | 45   | 0  | 0.16 | 0.133279 | 0 | 2000 | 1.59 | 0.083419 |
| 0.133009 | 0 | 400  | 1.53 | 0.131087 | 6.321756 | 0.5233 | 24   | 37   | 39   | 15 | 0.16 | 0.129455 | 0 | 600  | 1.55 | 0.11917  |
| 0.152898 | 0 | 550  | 1.52 | 0.190672 | 3.92139  | 0.1744 | 25   | 57   | 18   | 0  | 0.16 | 0.16231  | 0 | 2000 | 1.61 | 0.166838 |
| 0.133279 | 0 | 700  | 1.53 | 0.154921 | 6.702012 | 0.407  | 25   | 40   | 35   | 0  | 0.09 | 0.130564 | 0 | 2000 | 1.5  | 0.166838 |
| 0.137861 | 0 | 2000 | 1.53 | 0.154921 | 15.48355 | 0.6977 | 18   | 40   | 42   | 5  | 0.16 | 0.134473 | 0 | 0    | 0    | 0        |
| 0.140868 | 0 | 2000 | 1.6  | 0.143004 | 20.86655 | 0.2907 | 14   | 38   | 48   | 5  | 0.23 | 0.136547 | 0 | 0    | 0    | 0        |
| 0.136533 | 0 | 700  | 1.55 | 0.143004 | 21.44882 | 0.6395 | 15   | 38   | 47   | 5  | 0.16 | 0.135802 | 0 | 2000 | 1.54 | 0.154921 |
| 0.139746 | 0 | 600  | 1.51 | 0.190672 | 8.08044  | 0.5233 | 21   | 54   | 25   | 5  | 0.16 | 0.146657 | 0 | 2000 | 1.4  | 0.166838 |
| 0.157065 | 0 | 550  | 1.57 | 0.202589 | 5.169105 | 0.0581 | 21   | 57   | 22   | 5  | 0.16 | 0.154707 | 0 | 2000 | 1.51 | 0.202589 |
| 0.142542 | 0 | 600  | 1.28 | 0.166838 | 2.400366 | 0.3488 | 48   | 47   | 5    | 0  | 0.23 | 0.213894 | 0 | 2000 | 1.27 | 0.166838 |
| 0.179487 | 0 | 2000 | 1.51 | 0.202589 | 4.206582 | 0.2326 | 25   | 58   | 17   | 0  | 0.3  | 0.167193 | 0 | 0    | 0    | 0        |
| 0.141509 | 0 | 400  | 1.6  | 0.190672 | 6.571299 | 0      | 18   | 57   | 25   | 15 | 0.23 | 0.151365 | 0 | 2000 | 1.54 | 0.226423 |
| 0.130888 | 0 | 2000 | 1.6  | 0.214506 | 4.967094 | 0      | 1    | 7    | 92   | 0  | 0.3  |          |   |      |      |          |





**PRILOGA B – Kolobarji kmetijske pridelave, uporabljeni v modelih**  
Govedorejski s prezimnimi dosevki

| CROP | YEAR | MONTH | DAY | MGT_OP | Operacije                  | PLANT_ID | Rastlina | FERT_ID | Gnojilo | FRT_KG | FRT_SURFACE | TILLAGE_ID | Obdelava | HARVEFF | HI_OVR |
|------|------|-------|-----|--------|----------------------------|----------|----------|---------|---------|--------|-------------|------------|----------|---------|--------|
| CLVR | 1    | 1     | 1   | 1      | plant/begin growing season | 54       | CLVR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 25  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 25  | 3      | fertilizer application     | 0        |          | 57      | COMP_BM | 15000  | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 4     | 26  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 1    | 4     | 27  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
|      | 1    | 4     | 28  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 300    | 0.2         | 0          |          | 0       | 0      |
| CSIL | 1    | 4     | 28  | 1      | plant/begin growing season | 20       | CSIL     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 6     | 13  | 3      | fertilizer application     | 0        |          | 5       | Urea-46 | 170    | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 9     | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 9     | 4   | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 1    | 9     | 5   | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
| WWHT | 1    | 9     | 6   | 1      | plant/begin growing season | 135      | WWHT     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 9     | 6   | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 400    | 0.2         | 0          |          | 0       | 0      |
| WWHT | 2    | 1     | 1   | 1      | plant/begin growing season | 135      | WWHT     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 2     | 23  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 3     | 26  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 4     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 7     | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 7     | 12  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 110        | brana15  | 0       | 0      |
| FESC | 2    | 7     | 13  | 1      | plant/begin growing season | 38       | FESC     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 9     | 19  | 7      | harvest only               | 0        |          | 0       |         | 0      | 0           | 0          |          | 1       | 0.9    |
| FESC | 3    | 1     | 1   | 1      | plant/begin growing season | 38       | FESC     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 3     | 3   | 3      | fertilizer application     | 0        |          | 5       | Urea-46 | 174    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 4     | 23  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 4     | 25  | 3      | fertilizer application     | 0        |          | 57      | COMP_BM | 15000  | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 4     | 26  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 3    | 4     | 27  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
| CSIL | 3    | 4     | 28  | 1      | plant/begin growing season | 20       | CSIL     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 4     | 28  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 6     | 13  | 3      | fertilizer application     | 0        |          | 5       | Urea-46 | 170    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 9     | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 9     | 4   | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 110        | brana15  | 0       | 0      |
| CLVR | 3    | 9     | 5   | 1      | plant/begin growing season | 54       | CLVR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
| CLVR | 4    | 1     | 1   | 1      | plant/begin growing season | 54       | CLVR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 4     | 23  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 4     | 25  | 3      | fertilizer application     | 0        |          | 57      | COMP_BM | 15000  | 0.2         | 0          |          | 0       | 0      |
|      | 4    | 4     | 26  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 4    | 4     | 27  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
| CSIL | 4    | 4     | 28  | 1      | plant/begin growing season | 20       | CSIL     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 4     | 28  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 4    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 4    | 6     | 13  | 3      | fertilizer application     | 0        |          | 5       | Urea-46 | 170    | 0.2         | 0          |          | 0       | 0      |
|      | 4    | 9     | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 9     | 24  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 4    | 9     | 25  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
| WBAR | 4    | 9     | 26  | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 9     | 26  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 200    | 0.2         | 0          |          | 0       | 0      |
| WBAR | 5    | 1     | 1   | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 5    | 2     | 19  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 5    | 3     | 22  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 5    | 4     | 21  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 5    | 6     | 20  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 5    | 7     | 12  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 110        | brana15  | 0       | 0      |
| CLVR | 5    | 7     | 20  | 1      | plant/begin growing season | 54       | CLVR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |

Travinje

| CROP | YEAR | MONTH | DAY | MGT_OP | Operacije                  | PLANT_ID | Rastlina | FERT_ID | Gnojilo | FRT_KG | FRT_SURFACE | TILLAGE_ID | Obdelava | HARVEFF | HI_OVR |
|------|------|-------|-----|--------|----------------------------|----------|----------|---------|---------|--------|-------------|------------|----------|---------|--------|
| FESC | 1    | 2     | 16  | 1      | plant/begin growing season | 38       | FESC     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 3     | 8   | 3      | fertilizer application     | 0        |          | 57      | COMP_BM | 12500  | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 28  | 7      | harvest only               | 0        |          | 0       |         | 0      | 0           | 0          |          | 1       | 0.9    |
|      | 1    | 8     | 8   | 7      | harvest only               | 0        |          | 0       |         | 0      | 0           | 0          |          | 1       | 0.9    |

Praščerejski

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| YEAR | MONTH | DAY | MGT_OP | Operacije                  | PLANT_ID | Rastlina | FERT_ID | Gnojilo  | FRT_KG | FRT_SURFACE | TILLAGE_ID | Obdelava | HARVEFF | HI_OVR |
|------|-------|-----|--------|----------------------------|----------|----------|---------|----------|--------|-------------|------------|----------|---------|--------|
| 1    | 1     | 1   | 1      | plant/begin growing season | 54       | CLVR     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 1    | 4     | 19  | 8      | kill                       | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 1    | 4     | 19  | 3      | fertilizer application     | 0        |          | 21      | 15_15_15 | 500    | 0           | 0          |          | 0       | 0      |
| 1    | 4     | 20  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
| 1    | 4     | 22  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 110        | brana15  | 0       | 0      |
| 1    | 4     | 24  | 1      | plant/begin growing season | 19       | CORN     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 1    | 4     | 24  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 300    | 1           | 0          |          | 0       | 0      |
| 1    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 1           | 0          |          | 0       | 0      |
| 1    | 9     | 18  | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 1    | 9     | 19  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
| 1    | 9     | 20  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 110        | brana15  | 0       | 0      |
| 1    | 9     | 21  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 400    | 1           | 0          |          | 0       | 0      |
| 1    | 9     | 21  | 1      | plant/begin growing season | 99       | WBAR     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 2    | 1     | 1   | 1      | plant/begin growing season | 99       | WBAR     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 2    | 3     | 3   | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 1           | 0          |          | 0       | 0      |
| 2    | 3     | 29  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 1           | 0          |          | 0       | 0      |
| 2    | 4     | 23  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 1           | 0          |          | 0       | 0      |
| 2    | 7     | 3   | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 3    | 4     | 19  | 3      | fertilizer application     | 0        |          | 21      | 15_15_15 | 500    | 0           | 0          |          | 0       | 0      |
| 3    | 4     | 21  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
| 3    | 4     | 22  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 110        | brana15  | 0       | 0      |
| 3    | 4     | 23  | 1      | plant/begin growing season | 19       | CORN     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 3    | 4     | 23  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 300    | 1           | 0          |          | 0       | 0      |
| 3    | 5     | 25  | 3      | fertilizer application     | 0        |          | 5       | Urea-46  | 150    | 1           | 0          |          | 0       | 0      |
| 3    | 9     | 18  | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
| 3    | 9     | 20  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 108        | brana15  | 0       | 0      |
| 3    | 9     | 21  | 3      | fertilizer application     | 0        |          | 21      | 15_15_15 | 200    | 1           | 0          |          | 0       | 0      |
| 3    | 9     | 21  | 1      | plant/begin growing season | 54       | CLVR     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |

Poljedelski

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Vipava

| CROP | YEAR | MONTH | DAY | MGT_OP | Operacije                  | PLANT_ID | Rastlina | FERT_ID | Gnojilo | FRT_KG | FRT_SURFACE | TILLAGE_ID | Obdelava | HARVEFF | HI_OVR |
|------|------|-------|-----|--------|----------------------------|----------|----------|---------|---------|--------|-------------|------------|----------|---------|--------|
| WWHT | 1    | 1     | 1   | 1      | plant/begin growing season | 135      | WWHT     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 2     | 23  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 3     | 26  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 4     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 1    | 7     | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 9     | 24  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 1    | 9     | 25  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 110        | brana15  | 0       | 0      |
|      | 1    | 9     | 26  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 200    | 0.2         | 0          |          | 0       | 0      |
| WBAR | 1    | 9     | 26  | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
| WBAR | 2    | 1     | 1   | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 2     | 20  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 2    | 3     | 22  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 2    | 4     | 21  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 2    | 6     | 20  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 4     | 25  | 3      | fertilizer application     | 0        |          | 57      | COMP_BM | 15000  | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 4     | 26  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 3    | 4     | 27  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
|      | 3    | 4     | 28  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 300    | 0.2         | 0          |          | 0       | 0      |
| CORN | 3    | 4     | 28  | 1      | plant/begin growing season | 19       | CORN     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 200    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 6     | 13  | 3      | fertilizer application     | 0        |          | 5       | Urea-46 | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 3    | 10    | 3   | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 9     | 25  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 3    | 9     | 26  | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 110        | brana15  | 0       | 0      |
|      | 3    | 9     | 27  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 200    | 0.2         | 0          |          | 0       | 0      |
| WBAR | 3    | 9     | 27  | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
| WBAR | 4    | 1     | 1   | 1      | plant/begin growing season | 99       | WBAR     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 2     | 20  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 4    | 3     | 22  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 4    | 4     | 21  | 3      | fertilizer application     | 0        |          | 58      | KAN     | 150    | 0           | 0          |          | 0       | 0      |
|      | 4    | 6     | 20  | 5      | harvest and kill           | 0        |          | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 10    | 5   | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 4    | 10    | 6   | 6      | tillage                    | 0        |          | 0       |         | 0      | 0           | 108        | brana15  | 0       | 0      |
| WWHT | 4    | 10    | 7   | 1      | plant/begin growing season | 135      | WWHT     | 0       |         | 0      | 0           | 0          |          | 0       | 0      |
|      | 4    | 10    | 8   | 3      | fertilizer application     | 0        |          | 59      | 7_20_30 | 400    | 0.2         | 0          |          | 0       | 0      |

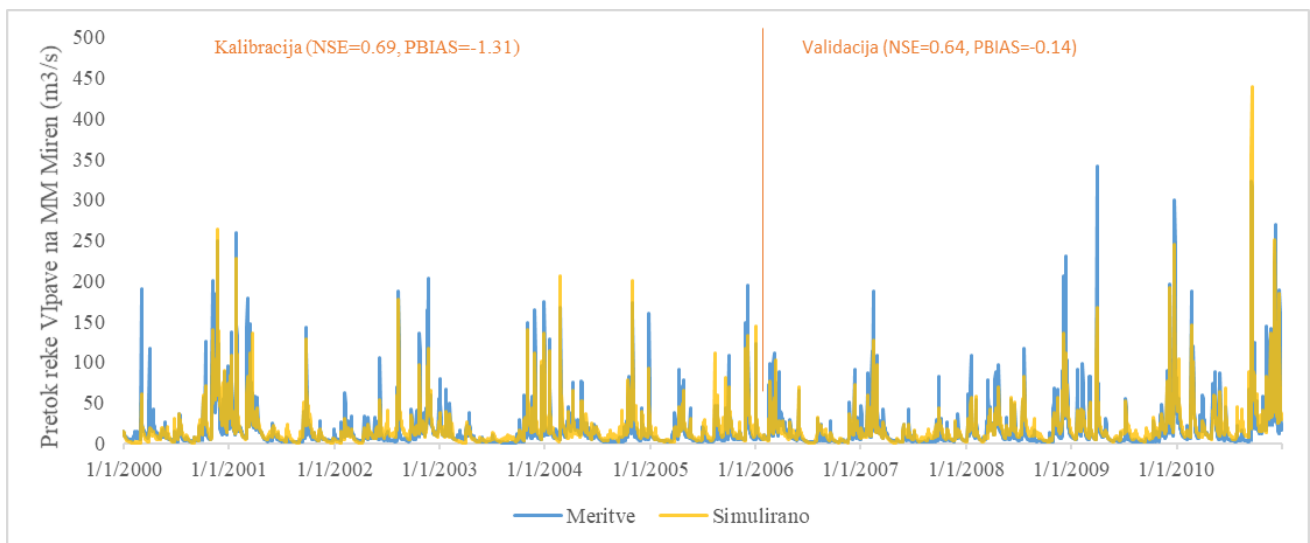
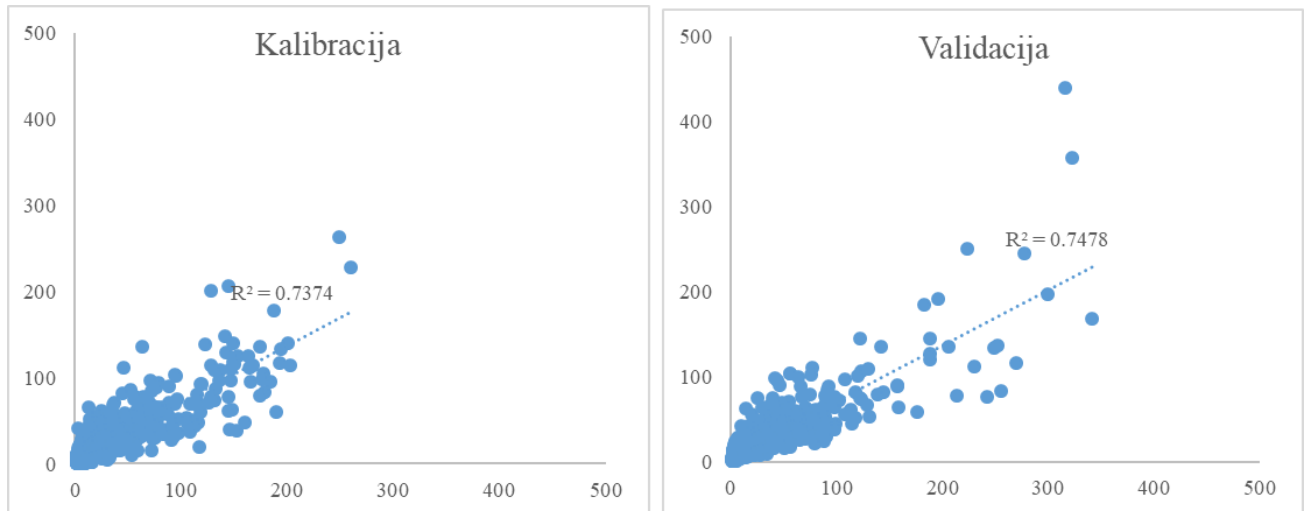
Poljedelski s prezimnimi dosevki – Pesnica in Ledava

| CROP | YEAR | MONTH | DAY | MGT_OP | Operacije                  | PLANT_ID | Rastlina | FERT_ID | Gnojilo  | FRT_KG | FRT_SURFACE | TILLAGE_ID | Obdelava | HARVEFF | HI_OVR |
|------|------|-------|-----|--------|----------------------------|----------|----------|---------|----------|--------|-------------|------------|----------|---------|--------|
| FESC | 1    | 1     | 1   | 1      | plant/begin growing season | 38       | FESC     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 25  | 3      | fertilizer application     | 0        |          | 57      | COMP_BM  | 15000  | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 25  | 8      | kill                       | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 4     | 26  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 1    | 4     | 27  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 108        | brana15  | 0       | 0      |
|      | 1    | 4     | 28  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 300    | 0.2         | 0          |          | 0       | 0      |
| CORN | 1    | 4     | 28  | 1      | plant/begin growing season | 19       | CORN     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 5     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 200    | 1           | 0          |          | 0       | 0      |
|      | 1    | 10    | 18  | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 10    | 20  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 1    | 10    | 21  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 108        | brana15  | 0       | 0      |
| WWHT | 1    | 10    | 22  | 1      | plant/begin growing season | 135      | WWHT     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 1    | 10    | 22  | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 400    | 0.2         | 0          |          | 0       | 0      |
| WWHT | 2    | 1     | 1   | 1      | plant/begin growing season | 135      | WWHT     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 2     | 23  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 3     | 26  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 4     | 25  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 150    | 0.2         | 0          |          | 0       | 0      |
|      | 2    | 7     | 3   | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 8     | 3   | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 109        | oranje25 | 0       | 0      |
|      | 2    | 8     | 4   | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 108        | brana15  | 0       | 0      |
| OSRA | 2    | 8     | 5   | 1      | plant/begin growing season | 143      | OSRA     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 2    | 8     | 5   | 3      | fertilizer application     | 0        |          | 59      | 7_20_30  | 500    | 1           | 0          |          | 0       | 0      |
| OSRA | 3    | 1     | 1   | 1      | plant/begin growing season | 143      | OSRA     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 2     | 22  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 300    | 1           | 0          |          | 0       | 0      |
|      | 3    | 3     | 29  | 3      | fertilizer application     | 0        |          | 58      | KAN      | 250    | 1           | 0          |          | 0       | 0      |
|      | 3    | 7     | 3   | 5      | harvest and kill           | 0        |          | 0       |          | 0      | 0           | 0          |          | 0       | 0      |
|      | 3    | 7     | 24  | 6      | tillage                    | 0        |          | 0       |          | 0      | 0           | 110        | brana15  | 0       | 0      |
|      | 3    | 7     | 25  | 3      | fertilizer application     | 0        |          | 21      | 15_15_15 | 200    | 1           | 0          |          | 0       | 0      |
| FESC | 3    | 7     | 25  | 1      | plant/begin growing season | 38       | FESC     | 0       |          | 0      | 0           | 0          |          | 0       | 0      |

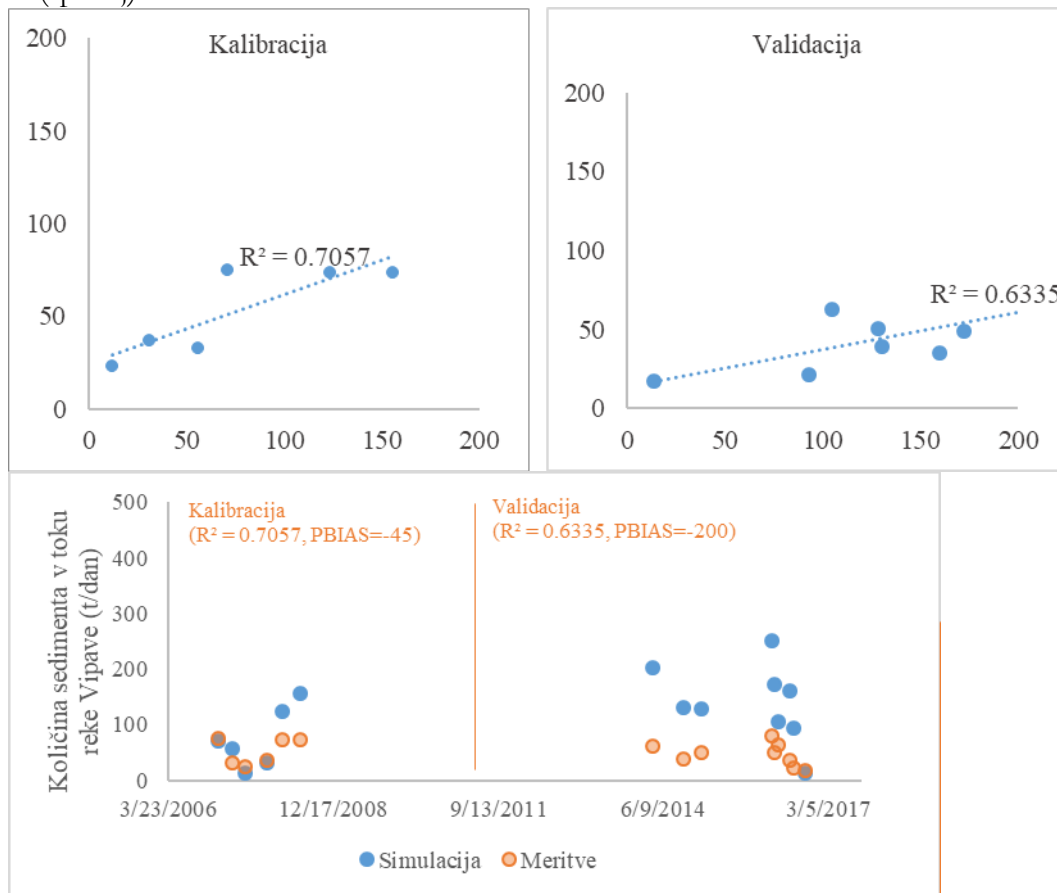
## PRILOGA C – Rezultati kalibracije in validacije modelov s končnimi vrednostmi parametrov za porečji Vipave in Pesnice

(postopek kalibracije in validacije za porečje Ledave je opisan v (Ojsteršek Zorčič, 2015))

**Vipava** – pretok na merilnem mestu Miren – regresija meritve/simulacija (zgoraj) in hidrogram (spodaj)



**Vipava** – sediment na merilnem mestu Miren – regresija meritve/simulacija (zgoraj) in časovni potek (spodaj)

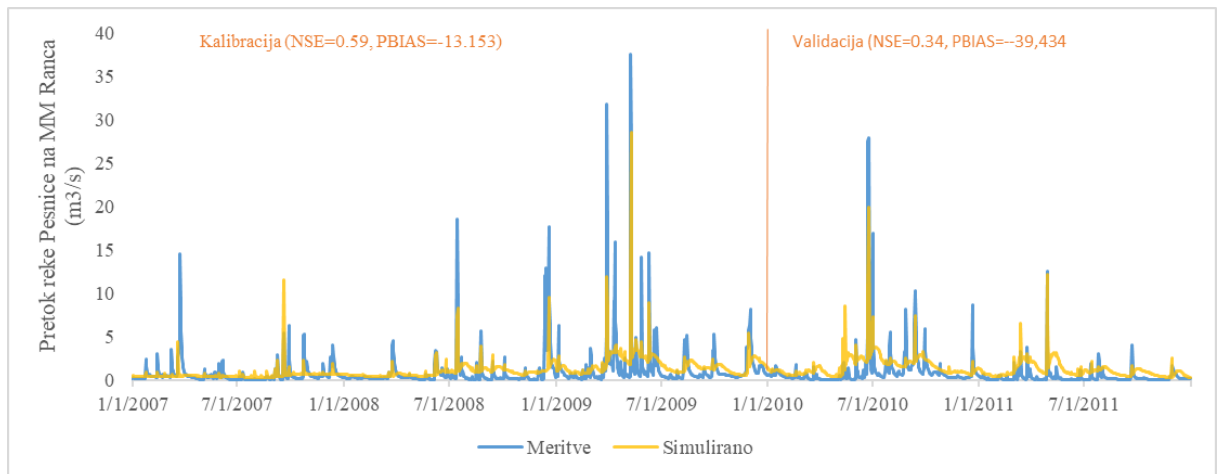
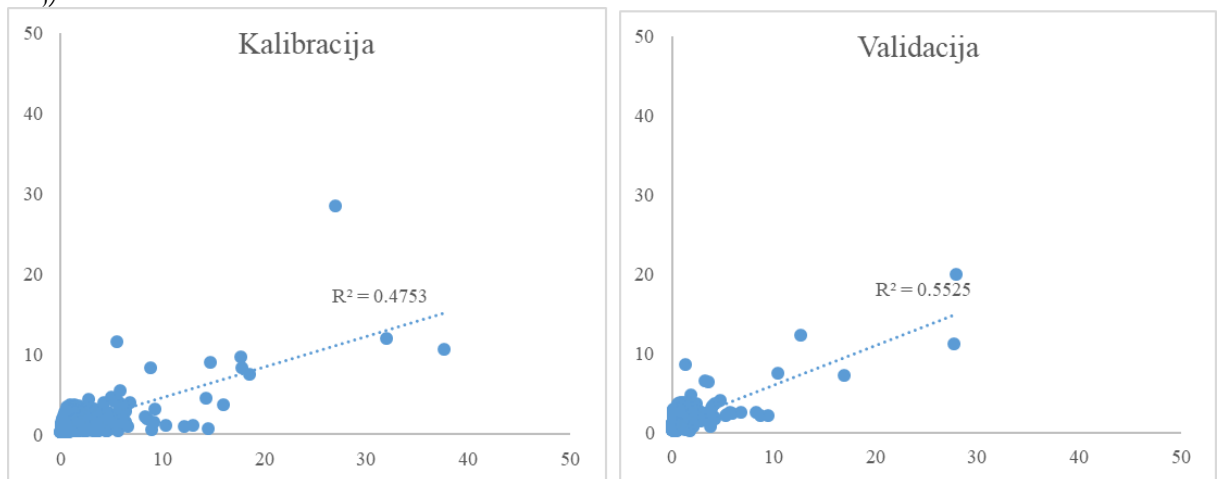


**Vipava** – končne vrednosti parametrov po kalibraciji

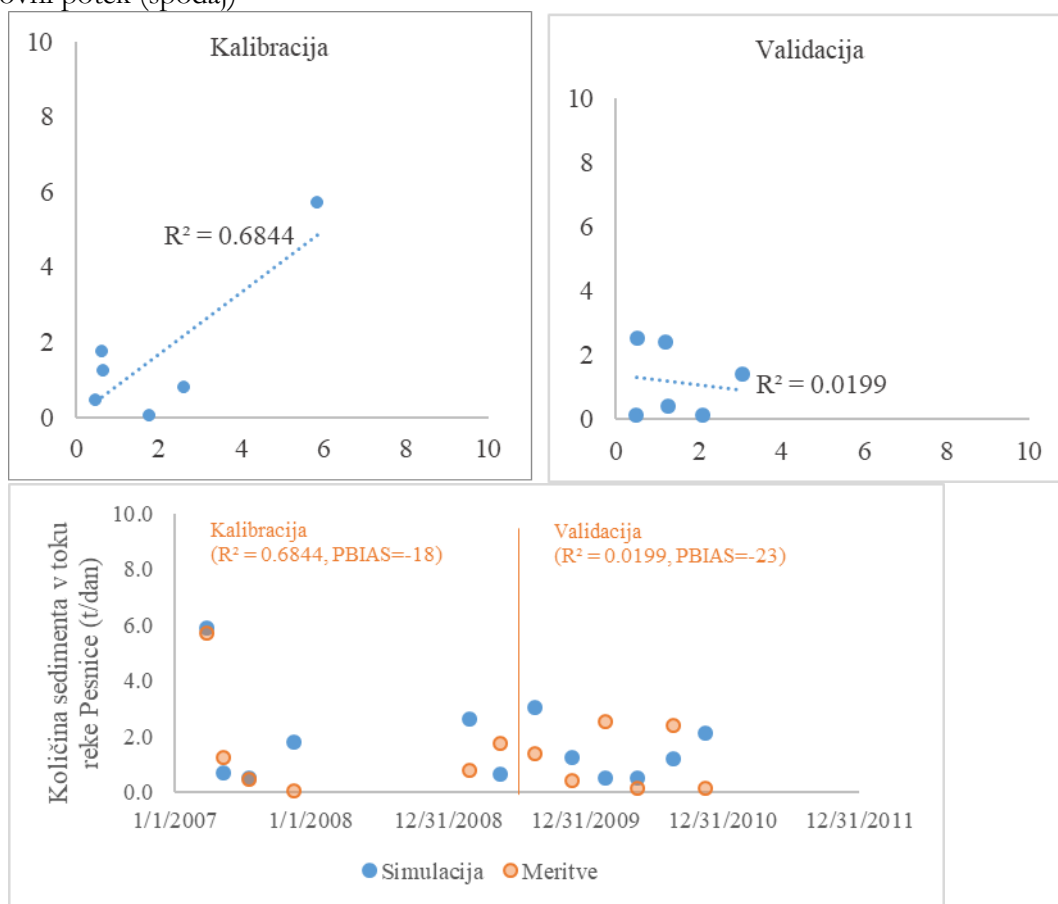
| Parameter_Name       | Fitted_Value | Min_value | Max_value |
|----------------------|--------------|-----------|-----------|
| 1:R__CN2.mgt         | -0.013       | -0.3      | 0.3       |
| 2:R__SOL_AWC(..).sol | 0.452        | -0.5      | 0.5       |
| 3:V__ESCO.hru        | 0.479        | 0.6       | 0.1       |
| 4:V__GWQMN.gw        | 1825         | 0         | 5000      |
| 5:V__GW_REVAP.gw     | 0.059        | 0.02      | 0.2       |
| 6:V__REVAPMN.gw      | 187.5        | 0         | 500       |
| 7:V__ALPHA_BF.gw     | 0.187        | 0         | 0.2       |
| 8:V__GW_DELAY.gw     | 5.17         | 0         | 100       |
| 9:V__RCHRG_DP.gw     | 0.22         | 0         | 0.5       |
| 10:R__SLSUBBSN.hru   | 0.12         | -0.2      | 0.2       |



**Pesnica** – pretok na merilnem mestu Ranca – regresija meritve/simulacija (zgoraj) in hidrogram (spodaj)



**Pesnica** – sediment na merilnem mestu Pesniški dvor – regresija meritve/simulacija (zgoraj) in časovni potek (spodaj)



**Pesnica** – končne vrednosti parametrov po kalibraciji

| Parameter_Name       | Fitted_Value | Min_value | Max_value |
|----------------------|--------------|-----------|-----------|
| 1:R__CN2.mgt         | -0.013       | -0.3      | 0.3       |
| 2:R__SOL_AWC(.,).sol | 0.012        | -0.5      | 0.5       |
| 3:V__ESCO.hru        | 0.756        | 0.6       | 0.1       |
| 4:V__ALPHA_BF.gw     | 0.187        | 0         | 0.2       |
| 5:V__GW_DELAY.gw     | 5.17         | 0         | 100       |
| 6:V__SMTMP.bsn       | 3.02         | -5        | 5         |
| 7:V__SFTMP.bsn       | 2.92         | -5        | 5         |
| 8:V__SMFMX.bsn       | 1.38         | 0         | 10        |
| 9:V__SMFMN.bsn       | 5.78         | 0         | 10        |
| 10:V__TIMP.bsn       | 0.23         | 0         | 1         |
| 11:R__SLSUBBSN.hru   | 0.02         | -0.2      | 0.2       |