

| Class | Gene_name | encoded enzyme |
|--|-----------|----------------|
| 16S | 16S | |
| 2oxoglutarate ferredoxin oxidoreductase | korA | |
| 2propeller phytase | bpp | |
| 5methyltetrahydrofolate corrinoid/iron sulfur protein methyl | acsE | |
| acetylCoA carboxylase carboxyl transferase | accA | |
| acetylCoA synthase | acsB | |
| adenosine5'phosphosulfate reductase subunit A | apsA | |
| alkaline phosphatase D | phoD | |
| alkaline phosphatase/Pho regulon | phoX | |
| Alpha amylase | amyA | |
| ammonia monooxygenase subunit | amoA1 | |
| ammonia monooxygenase subunit | amoA2 | |
| ammonia monooxygenase subunit | amoB | |
| Amylopullulanase | apu | |
| AmyX/pullulanase | amyX | |
| arabinofuranosidase | abfA | |
| assimilatory nitrate reductase catalytic subunit | nasA | |
| ATPcitrate lyase betasubunit | aclB | |
| carbohydrate diacid regulon transcriptional regulator | cdaR | |
| carbonmonoxide dehydrogenase | acsA | |
| Cellobiose dehydrogenase | CDH | |
| cystein phytase | cphy | |
| endochitinase | chiA | |
| exochitinase | exc | |
| exoglucanase | exg | |
| exoPG | exoPG | |
| exopolyphosphatase | ppx | |
| fumarate reductase flavoprotein subunit | frdA | |
| glucoamylase | gam | |
| glucose dehydrogenase | gmGDH | |
| glutamate dehydrogenase | gdh | |
| Glyoxal oxidase | glx | |
| hydrazine oxidase | hzo | |
| hydrazine synthase subunit A | hzsA | |
| hydrazine synthase subunit B | hzsB | |
| hydroxylamine oxidoreductase | hao | |
| Isopullulanase | IsoP | |
| Lignin peroxidase | lig | |
| manganese peroxidase | mnp | |
| Mannanase | manA | |
| mesaconylCoA C1C4 CoA transferase | mct | |
| methane monooxygenase component A alpha chain | mmoX | |
| methane/ammonia monooxygenase subunit A | pmoA | |
| methanol dehydrogenase | emGDH | |
| methanol dehydrogenase (cytochrome c) subunit | mxs | |
| methylcoenzyme M reductase alpha subunit | mcrA | |
| Nacetylglucosaminidase | naglu | |
| niK3 | niK3 | |
| nitrate reductase alpha chain | narG | |
| nitrite oxidoreductase | nxrA | |
| nitrite reductase (NOforming) | nirK1 | |
| nitrite reductase (NOforming) | nirK2 | |
| nitrite reductase (NOforming) | nirS1 | |

| | |
|--|-------|
| nitrite reductase (NOforming) | nirS2 |
| nitrite reductase (NOforming) | nirS3 |
| nitrogenase iron protein | nifH |
| nitrousoxide reductase | nosZ1 |
| nitrousoxide reductase | nosZ2 |
| periplasmic nitrate reductase | napA |
| Phenol oxidase | pox |
| ppk3 | ppk3 |
| propionylCoA carboxylase alpha | pccA |
| putative phosphonate transport system ATPbinding protein | phnK |
| pyrroloquinolinequinone synthase | pqqC |
| rubisCO large chain | rbcL |
| succinylCoA:(S) malate CoA transferase | smtA |
| sulfer oxidation protein | SoxY |
| sulfite oxidase | YedZ |
| sulfite reductase alpha subunit | dsrA |
| sulfite reductase beta subunit | dsrB |
| urease | UreC |
| xylose isomerase | xylA |

| nRS15. 1 | nRS15. 2 | nRS15. 3 | nRS15. 4 |
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| 0. 00156199145829521 | 0. 00213206434569742 | 0. 00172159826214251 | 0. 00210045947008027 |
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| 0. 000237902220703229 | 0. 000387948845905976 | 0. 000207214927599488 | 0. 000290866846999009 |
| 0. 00179612362141446 | 0. 00146844555130641 | 0. 0012759490229023 | 0. 00135056182899687 |
| 0. 000332125153668433 | 0. 000286954013029407 | 0. 000289115777352111 | 0. 000274402795745142 |
| 0. 00382470226882634 | 0. 00480932283215391 | 0. 0045204527083359 | 0. 00464720981973264 |
| 0. 000324455964934101 | 0. 000410710525947488 | 0. 000317334938466986 | 0. 000321189208373831 |
| 2. 4127341175459e-05 | 2. 73019506403045e-05 | 0 | 4. 33343288509997e-05 |
| 0. 0147001422602191 | 0. 0153826020178449 | 0. 0151085009989787 | 0. 0143199741992249 |
| 4. 18218834644188e-05 | 0. 000125624323014399 | 5. 84920014383583e-05 | 7. 54722557381017e-05 |
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| 0. 000637465782763523 | 0. 000535848140347543 | 0. 000905556605372313 | 0. 000589446683322176 |
| 1. 69254542821617e-05 | 1. 7551675918026e-05 | 0 | 1. 99462821267184e-05 |
| 0. 0017945464235804 | 0. 00133577122690236 | 0. 00137025615978161 | 0. 00123059577270812 |
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| 0. 00109761793112792 | 0. 00107874669443774 | 0. 00115565546969221 | 0. 00113024617209688 |
| 0. 000310375900664994 | 0. 000432699670850328 | 0. 000444037665554202 | 0. 00041608847824293 |
| 0. 00991833751830559 | 0. 0113558958264614 | 0. 00972245689219025 | 0. 00741123317610926 |
| 0. 00400736876225063 | 0. 00444376575523642 | 0. 00363709539357949 | 0. 00404070884424137 |
| 0. 00680945607062584 | 0. 00790465851311976 | 0. 00756465478215366 | 0. 00794971050675196 |
| 0. 00331470273968434 | 0. 00315938149976777 | 0. 00337888912107682 | 0. 00328196921001174 |
| 0. 00760165350426881 | 0. 00794528534551215 | 0. 00794375454373291 | 0. 007537514792932 |
| 0. 00175516791700235 | 0. 00151163285852639 | 0. 00190796570116764 | 0. 00160314901251129 |
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| 0. 000954701729631555 | 0. 00134213780273388 | 0. 00108004901561577 | 0. 00112457973835117 |
| 0. 00150607198507771 | 0. 00146766421981926 | 0. 00124782968738488 | 0. 00127471503426293 |
| 0. 00585504266668852 | 0. 00591599521964156 | 0. 00602090327971898 | 0. 00612388124750323 |
| 0. 013015624314577 | 0. 0145364049399 | 0. 0135897406673184 | 0. 0143775067028001 |
| 0. 0475339075026218 | 0. 0408977333841279 | 0. 0482059596912768 | 0. 0503739359349207 |
| 0. 00293838836643959 | 0. 00358082005688388 | 0. 00288005038126266 | 0. 00275971808378665 |
| 0. 011402988401122 | 0. 010766947533247 | 0. 0119738272939754 | 0. 0111038760900254 |
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| 0. 000236307848906793 | 0. 000276515483430716 | 0. 000252159081813871 | 0. 000217832782143619 |
| 0. 00273336622535995 | 0. 00273412896134614 | 0. 00276868717577879 | 0. 00245665338351014 |

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| 0.000634714971794012 | 0.000659697359052817 | 0.000690260886881216 | 0.00068334739318053 |
| 0.000931242093722019 | 0.001114066313136 | 0.000978999222974704 | 0.000962444886043118 |
| 0.00265531927857233 | 0.00262874417463458 | 0.00254868740361587 | 0.00251785132055562 |
| 0.00345810521170466 | 0.00280408159060853 | 0.00309407839952129 | 0.00330817945027878 |
| 0.00850247196891061 | 0.0103141825657443 | 0.00846921540155759 | 0.00891223247588154 |
| 0.00738486329778415 | 0.0065953986761001 | 0.00734872506502459 | 0.00633867322810179 |
| 5.40022788045359e-05 | 4.57361979195756e-05 | 6.95077028691306e-05 | 5.19121195349783e-05 |
| 7.22599119473937e-05 | 0.000105476415451918 | 7.63656646778657e-05 | 7.97660027817564e-05 |
| 0.0033625529104166 | 0.00332689451550266 | 0.00376060480138522 | 0.00360597169885584 |
| 0.0279951514982995 | 0.0272013625872976 | 0.0295387299261854 | 0.0272799682684567 |
| 0.00252907225471502 | 0.00196956071287862 | 0.00236216152097319 | 0.0022364946095619 |
| 0.00819472885167506 | 0.00760529924366225 | 0.00805185420425929 | 0.00780993467722569 |
| 0.00825471081797458 | 0.00810182886990389 | 0.00905900413972234 | 0.0068878226148074 |
| 0.00914627561485113 | 0.0087762254639288 | 0.00997717521349362 | 0.00951581035117512 |
| 0.0107117609904929 | 0.0106869325121307 | 0.0106360882652756 | 0.00943018790528242 |
| 0.000613889877152011 | 0.000592998326405817 | 0.000556605007469078 | 0.0005333962078165 |
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| 15nRS. 5 | 15nRS. 6 | nRS25. 1 | nRS25. 2 |
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| 0.00737747402844674 | 0.00453159799847919 | 0.00704497858144372 | 0.00729961024165669 |
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| 0.0184210203383571 | 0.0122059284940959 | 0.0190038038350622 | 0.0212282588275543 |
| 0.00195974007624787 | 0.00171827878774344 | 0.00101542685417097 | 0.00145446580247571 |
| 0.000128431841965616 | 0.000102516873723495 | 0.000126031059088934 | 0.000155805055888264 |
| 0.00476782388022616 | 0.00246325378430547 | 0.00565881958826315 | 0.00488076940963106 |
| 0.0218943919450004 | 0.0186099799952043 | 0.0206709992810571 | 0.0229773498214342 |
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| 0.00144898488756742 | 0.000788882392436663 | 0.00387945250322257 | 0.00383044874088813 |
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| 0.00590091773755092 | 0.00387356604449216 | 0.00548704324589053 | 0.0063234912103751 |
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| 0.0119837488458877 | 0.00756267313816324 | 0.00864659661114428 | 0.00948171623271582 |
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| 0.0033073364927256 | 0.00229865883031311 | 0.00336519166673677 | 0.00305817595369087 |
| 0.00129141647260861 | 0.000783135800143452 | 0.000706992863358972 | 0.000748764453393666 |
| 0.000148035165649053 | 9.08735646524607e-05 | 0.000245421725955801 | 0.000234520888468208 |
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| 0.00754994963565901 | 0.00506106796605893 | 0.00669099239163973 | 0.00612930707145466 |
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| 8.06786133588472e-05 | 5.06679582816132e-05 | 9.79572306344404e-05 | 9.13962203974445e-05 |
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| 0.0294207751314308 | 0.0236061657759904 | 0.0250261893557787 | 0.0270320730534858 |
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| 0.00947893400517785 | 0.00552109320479224 | 0.0110169608990874 | 0.0104712320397953 |
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| 0. 0247584317510516 | 0. 0357343947325606 | 0. 0340933798458926 | 0. 0339431626796717 |
| 0. 000377156645162018 | 0. 000587384275820042 | 0. 000587155524695085 | 0. 000526158674510751 |
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| 0. 00604910192042016 | 0. 0112080705120187 | 0. 00893757993216836 | 0. 0100340858422964 |
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| 0 | 3. 05276300700826e-05 | 0 | 2. 31123516996208e-05 |
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| 0. 00151530300176331 | 0. 00178024383756267 | 0. 00155286214802656 | 0. 00160852255638172 |
| 0. 000404100410146696 | 0. 00052061257718508 | 0. 000521297427810167 | 0. 000506597295964182 |
| 0. 0126406222915704 | 0. 0201719581636123 | 0. 0185474948301287 | 0. 018758354074023 |
| 0. 00479489409878276 | 0. 00539006923562677 | 0. 00589071272270115 | 0. 00620657264101507 |
| 0. 00911773700970229 | 0. 0151764265554874 | 0. 0128050878772846 | 0. 0139065687135331 |
| 0. 00336404657524349 | 0. 00426531865141631 | 0. 00434991542854642 | 0. 00422321837791859 |
| 0. 00829564634559367 | 0. 0136509292137122 | 0. 0128757556065665 | 0. 0131125777508662 |
| 0. 00184209956079151 | 0. 00349801431202943 | 0. 00307710258900569 | 0. 00274348108446531 |
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| 0. 000267267663082621 | 0. 000442077635871036 | 0. 000449370126029171 | 0. 000413156097524521 |
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| 0. 0073240383501642 | 0. 0117875301996748 | 0. 00937316770475126 | 0. 0100266730182557 |
| 0. 0167268616302355 | 0. 029046689469298 | 0. 0257475206013874 | 0. 0266855048024511 |
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| 0. 00455648674520543 | 0. 0060031771890079 | 0. 00595546130977147 | 0. 00562214774943756 |
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| 0. 00334092909053808 | 0. 00522564059821351 | 0. 00473796375688631 | 0. 00472672569998853 |
| 0. 00233862850676451 | 0. 00337039940795641 | 0. 00327796990384891 | 0. 00290724390761682 |
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| 2. 64833542788601e-05 | 6. 0523825411681e-05 | 4. 80500530274458e-05 | 5. 46601443817927e-05 |
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| 0. 000343539152024073 | 0. 000345530454008397 | 0. 000275088027333497 | 0. 000361806151734287 |
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| 0.02804543192495 | 0.0391497099330914 | 0.0372279676745558 | 0.0370384090314199 |
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| 0.00688532117440839 | 0.0131387416778708 | 0.0136786320955596 | 0.0112917718849184 |
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| 0.000819874128415665 | 0.00122972395154121 | 0.00108463168438049 | 0.00114908600298105 |
| 5.10911705343736e-05 | 0.000114593970000602 | 4.74215451018851e-05 | 9.10707907354774e-05 |
| 0.135196098059379 | 0.15561461035705 | 0.157315503675813 | 0.195904930347948 |
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| 0. 0145785111998637 | 0. 024815816102396 | 0. 0179601048471136 | 0. 0190548319828138 |
| 0. 00248019412419232 | 0. 00222685500379714 | 0. 00300150106945543 | 0. 00274434983689493 |
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| 0. 00568515371869135 | 0. 0082501377382093 | 0. 00551182178549688 | 0. 00504380413928871 |
| 0. 0204047397804533 | 0. 0325281399799754 | 0. 022958193472941 | 0. 0206842743927223 |
| 0. 000117423576574884 | 0. 000220713492323766 | 8. 17870448953974e-05 | 0. 000100875991948706 |
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| 0. 00110626288727591 | 0. 00297479486136651 | 0. 00128393044198976 | 0. 00205500444517146 |
| 0. 00131643303764518 | 0. 00177375920222739 | 0. 00126050152702885 | 0. 0014743833449797 |
| 0. 0037785638308539 | 0. 00766544126156604 | 0. 00499899165457702 | 0. 00423889724014127 |
| 0. 000250384169428273 | 0. 000509568942513469 | 0. 000338816321511787 | 0. 000318001943565576 |
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| 0. 0228588839040215 | 0. 0275715925845752 | 0. 0206313639975702 | 0. 0207635965616723 |
| 0 | 4. 95968580295447e-05 | 2. 06099076125859e-05 | 2. 92744664127432e-05 |
| 0. 00340239926721191 | 0. 0057277105608838 | 0. 00321859699821056 | 0. 00356761451253011 |
| 0 | 3. 6325461432068e-05 | 2. 1453182380779e-05 | 1. 7669573750388e-05 |
| 0. 102596618785435 | 0. 117348104719279 | 0. 101881562578493 | 0. 0969242087283817 |
| 0. 000323359192509752 | 0. 00111371650864072 | 0. 000515815747188924 | 0. 000948591893533566 |
| 1. 65788898621405e-05 | 4. 72009287272639e-05 | 3. 61938069919188e-05 | 3. 1523536133472e-05 |
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| 0. 00298231557275092 | 0. 00535468495292041 | 0. 00285875019247326 | 0. 00336333798394929 |
| 0. 0061058353767151 | 0. 0104314576014856 | 0. 00812369349898174 | 0. 00715549601482568 |
| 0. 0024481430026352 | 0. 00371439451941264 | 0. 00238321846627368 | 0. 00199310175351765 |
| 0. 0072642165527781 | 0. 0117875863631579 | 0. 00786100601093313 | 0. 00744222617608957 |
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| 0. 000456725539938018 | 0. 000362643134191017 | 0. 000439871313317394 | 0. 000500349489350681 |
| 8. 68354513219219e-05 | 8. 80588433942477e-05 | 7. 81188526407567e-05 | 7. 16315021947837e-05 |
| 0. 000837326409237353 | 0. 00144023060122352 | 0. 000947753606302263 | 0. 00116714331583421 |
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| 0. 0161217037005747 | 0. 025214405463648 | 0. 0194894555331697 | 0. 016455638472903 |
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| 0. 00439641166564457 | 0. 00623763215275362 | 0. 00367606599842771 | 0. 00411072474727793 |
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| 0. 0022775278618129 | 0. 00354343488321222 | 0. 00215401916130408 | 0. 00192201764467826 |
| 0. 00147838186198191 | 0. 00219895226498386 | 0. 00126442897993979 | 0. 00133710526380283 |
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| 2. 50908213911672e-05 | 7. 01388830828419e-05 | 2. 88782952400939e-05 | 3. 91854168147978e-05 |
| 0. 00368191511152861 | 0. 00570090806721603 | 0. 00373150223994942 | 0. 0038269790686739 |
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| 0. 000249922135472778 | 0. 000465174369763985 | 0. 000283064184409765 | 0. 000462164945406787 |
| 0. 000177378084306195 | 0. 000277151757279973 | 0. 000198655955148495 | 0. 000216710961497626 |
| 0. 00298650635926727 | 0. 00325806628114185 | 0. 00262712571377988 | 0. 00300511672793806 |

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| 0.00102609835423242 | 0.00153458161147783 | 0.00146911253824029 | 0.0014197959693905 |
| 0.000958272544333661 | 0.00151197770499664 | 0.00102579377492772 | 0.000956806588034254 |
| 0.00266099107445232 | 0.00347129867690197 | 0.00239099974446183 | 0.00246148341741141 |
| 0.00304799356883701 | 0.00517711380349286 | 0.00373348397953507 | 0.00344295765027526 |
| 0.00908211421280257 | 0.0132892416257449 | 0.0102677722175011 | 0.00924111373243799 |
| 0.00749235843728746 | 0.0108764294086398 | 0.0055882899973163 | 0.00693799685514586 |
| 3.59018734319818e-05 | 8.25114311220754e-05 | 2.96711723776339e-05 | 7.65609853189138e-05 |
| 5.83570187524274e-05 | 0.000116640605330381 | 7.66922406242617e-05 | 8.82490851765159e-05 |
| 0.00523740476129215 | 0.00721687736144166 | 0.00541313172780681 | 0.00522635791308005 |
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| 0. 00548743969339813 | 0. 00353615733833959 | 0. 00594705265502556 | 0. 00603943037341326 |
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| 3. 99573849133725e-05 | 0 | 5. 00189485233226e-05 | 0 |
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| 3. 08426641378851e-05 | 1. 25712675333202e-05 | 4. 45501254797687e-05 | 3. 59256993946565e-05 |
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| 0. 00166157020818677 | 0. 00120129756285786 | 0. 0020187156628763 | 0. 0019193983508874 |
| 0 | 0 | 0 | 0 |
| 0. 00150058293471544 | 0. 00120204743192486 | 0. 00138574262935774 | 0. 00152625132933043 |
| 0. 00072133970582772 | 0. 000438430438265437 | 0. 00107173506883824 | 0. 000855769335867898 |
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| 0. 000686307262617096 | 0. 000626462879301297 | 0. 00034400879510037 | 0. 000346616525156958 |
| 0. 000146124591338143 | 9. 84388120468046e-05 | 0. 000231977288258749 | 0. 000254741336418067 |
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| 0. 00662228147304723 | 0. 00409436345610533 | 0. 00661351018260035 | 0. 00596536969979528 |
| 0. 0234594457570421 | 0. 0158677205651216 | 0. 0179843225121803 | 0. 0179984088006091 |
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| 0. 00540409379546653 | 0. 0037303197681453 | 0. 00437732815939689 | 0. 00416751498359359 |
| 0. 0110724392438329 | 0. 00965736342023157 | 0. 0131506304493893 | 0. 0173815575163226 |
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| 0. 0017470869055792 | 0. 0011300388351921 | 0. 00193460225649005 | 0. 00166501824082843 |
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| 0.00167613740908409 | 0.00130862438194989 | 0.00112819463760024 | 0.000647573257297975 |
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| 0.00329709034574096 | 0.00226243556900217 | 0.00287738478814786 | 0.00267242027663357 |
| 0.00510877712045152 | 0.00295500012506405 | 0.00552835587704968 | 0.00542788424763171 |
| 0.00960139202467916 | 0.00778988020947005 | 0.0105353555331199 | 0.0107053702089835 |
| 0.00763608554554452 | 0.00588290469875924 | 0.0104785200297253 | 0.00997938754850105 |
| 7.83207070685619e-05 | 3.09245846375664e-05 | 8.63116325277622e-05 | 9.00175070627103e-05 |
| 0 | 6.67324992085623e-05 | 7.7108616061342e-05 | 0.00011850012540238 |
| 0.00583617680066957 | 0.00528052859663937 | 0.00574831857555458 | 0.00507157375050043 |
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| 0.000868464429060154 | 0.000594706054001479 | 0.00081872973041822 | 0.000692467968758602 |
| 0.000202700721807191 | 0.000232048704163477 | 3.85712923286426e-05 | 4.76897436478358e-05 |
| 0.175801553449926 | 0.160234369166154 | 0.186306988608623 | 0.164290096909089 |
| 0.0166442444679495 | 0.0121364376544252 | 0.0184324788616829 | 0.0191063720279484 |

| nRS45. 3 | nRS45. 4 | nRS45. 5 | nRS45. 6 |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | 1 | 1 | 1 |
| 0. 0118603599983684 | 0. 00888754689369595 | 0. 0106584972317511 | 0. 00956807335376866 |
| 0. 00116047447830474 | 0. 000931519601083702 | 0. 00123460457002564 | 0. 0010196113754689 |
| 0. 0284124557624392 | 0. 0235625685035173 | 0. 0277949000936463 | 0. 0260769089718264 |
| 0. 0016744741876076 | 0. 00145036086548996 | 0. 00176939092129049 | 0. 00131122469765946 |
| 0. 000312549387216899 | 0. 000193751885156541 | 0. 00031397846053831 | 0. 000215511235700011 |
| 0. 0094813208266168 | 0. 00552084717592902 | 0. 00893671598493898 | 0. 0057348215356883 |
| 0. 0316782828783802 | 0. 0252409721899321 | 0. 029518781444627 | 0. 0264355020627012 |
| 0. 000227318705656274 | 0. 00018378902749503 | 0. 000244454777089551 | 0. 000192337950542631 |
| 0. 000702111755256391 | 0. 0004658279527569 | 0. 000642175303003725 | 0. 000570510795526537 |
| 0. 00500216430217933 | 0. 00316161579380697 | 0. 00475332353093382 | 0. 00383249068436219 |
| 0. 0022344946256585 | 0. 00188630039963474 | 0. 00243381678124464 | 0. 00185201494465928 |
| 0. 00798173614858611 | 0. 00584174290870025 | 0. 00785051365546145 | 0. 00630779341074835 |
| 0. 000489986499819147 | 0. 000424992519467679 | 0. 000490491618757817 | 0. 000415884268138818 |
| 5. 4518800735435e-05 | 4. 43142933898301e-05 | 3. 91425504103679e-05 | 4. 60446622125003e-05 |
| 0. 0231599009414034 | 0. 0229031712134668 | 0. 0218430894358585 | 0. 0227569205409834 |
| 7. 15777927428538e-05 | 0 | 0 | 0 |
| 0. 00568742607949377 | 0. 00489199959817728 | 0. 00560096175940133 | 0. 00507070074571004 |
| 5. 70922082899405e-05 | 3. 81739425433696e-05 | 5. 10253256968383e-05 | 4. 36555105201179e-05 |
| 0. 121944514977651 | 0. 101551652358865 | 0. 112881084281451 | 0. 0953781404588832 |
| 0. 00127860130073782 | 0. 00108141478612411 | 0. 0007824585421765 | 0. 00116578653909154 |
| 4. 62482235199398e-05 | 5. 17382850720385e-05 | 7. 69734399042996e-05 | 6. 44008258706024e-05 |
| 0. 00234555596977633 | 0. 00204222506203598 | 0. 00228318067319517 | 0. 0021925162138774 |
| 0 | 0 | 0 | 0 |
| 0. 00143226299111246 | 0. 00134724206252471 | 0. 0015594011982152 | 0. 00139755472772677 |
| 0. 000961228094120117 | 0. 000805911907616824 | 0. 00106358340303182 | 0. 000788963967685942 |
| 0. 0136091441156329 | 0. 0106553787151773 | 0. 0185880908324701 | 0. 0126858985911088 |
| 0. 00624247383289405 | 0. 00564888573053476 | 0. 00609639911612095 | 0. 00526038130829693 |
| 0. 0114422069751431 | 0. 00904677887761113 | 0. 011233027455792 | 0. 00838139792734541 |
| 0. 00351189113124061 | 0. 0032544090060259 | 0. 00340748982202942 | 0. 00266195418667652 |
| 0. 0115140562184362 | 0. 0101427820478418 | 0. 0120968432281262 | 0. 00949232675862645 |
| 0. 00199988022385612 | 0. 00180871740112586 | 0. 00193110094290428 | 0. 00193907551806965 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 |
| 0. 000449669627239042 | 0. 000343011329003787 | 0. 000422163591208547 | 0. 000396210497137627 |
| 0. 000262437762558267 | 0. 000197709547144621 | 0. 000214006569885022 | 0. 000259074624771246 |
| 0. 00168841345655494 | 0. 00122892164450881 | 0. 00174630897592749 | 0. 00133126053263128 |
| 0. 00179059299945641 | 0. 00137030505686385 | 0. 00164132843153991 | 0. 0016269593904965 |
| 0. 0077180972142286 | 0. 00642879179431658 | 0. 00753754342968168 | 0. 00666694397252526 |
| 0. 0224891539612283 | 0. 0167435101841431 | 0. 0211647428055352 | 0. 0181655704635448 |
| 0. 0825124924970067 | 0. 0693503529972246 | 0. 0739837926341205 | 0. 0653449257779772 |
| 0. 0055377761650911 | 0. 00396580970806191 | 0. 00480795556736661 | 0. 00489650841379909 |
| 0. 0175541246203535 | 0. 0155779757545663 | 0. 0187049877576086 | 0. 0167253365134203 |
| 0. 00408767430744751 | 0. 00296228514806025 | 0. 00379004975132809 | 0. 00324094112528946 |
| 0. 00206967849403233 | 0. 00172517733368083 | 0. 00211209786421684 | 0. 0019493454857506 |
| 0 | 0 | 0 | 0 |
| 4. 46314106222825e-05 | 3. 16396764869625e-05 | 2. 99877425703049e-05 | 3. 75875560665143e-05 |
| 0. 00512572003593815 | 0. 00431385176713965 | 0. 00478354548966436 | 0. 00455765126176604 |
| 0. 000708680402228463 | 0. 000660275361210518 | 0. 000548620675508839 | 0. 000813748532093388 |
| 0. 000298636080094287 | 0. 000227954832021399 | 0. 000259770009706496 | 0. 000257712475564589 |
| 0. 000819285225723391 | 0. 000461536274686343 | 0. 000539951106946455 | 0. 000565696744969222 |
| 0. 00036210275166588 | 0. 000246570654587341 | 0. 00035170910583629 | 0. 000266847146157177 |
| 0. 00343020858321271 | 0. 00299038682107632 | 0. 00287362495177317 | 0. 0025551194539481 |

| | | | |
|----------------------|----------------------|----------------------|----------------------|
| 0.00104720602929875 | 0.00112106955082222 | 0.00100857488946541 | 0.000858998885639467 |
| 0.00127172507876186 | 0.0013424794435713 | 0.00114006652379575 | 0.00145370356202327 |
| 0.00338066787930224 | 0.00286570704609112 | 0 | 0.00287133111832537 |
| 0.00602135139527223 | 0.00497772036356703 | 0.00579041514076731 | 0.00530414326602463 |
| 0.0126561605362689 | 0.00983558788848645 | 0.0105281001203239 | 0.0121900012227048 |
| 0.0107010338158494 | 0.00903363043159795 | 0.00944821586084826 | 0.00891091904185366 |
| 0.000142333631230572 | 9.82252307368596e-05 | 0.000124944458250483 | 0.000148722711943222 |
| 0.000139852197359929 | 0.000118694663711403 | 0.000145837300159921 | 0.00011835964640704 |
| 0.00582284273912087 | 0.00495854206592919 | 0.00532266429418275 | 0.00494727272033237 |
| 0.0520789912673338 | 0.0449154923614692 | 0.0480750609697449 | 0.0463350842293996 |
| 0.00345166905850367 | 0.00362543120870551 | 0.00377331043495087 | 0.00324511889112446 |
| 0.0148114952983643 | 0.012769708080839 | 0.0123191984231789 | 0.0129347227517781 |
| 0.0114248636281213 | 0.00934751186896553 | 0.0110519088615951 | 0.0105684216037704 |
| 0.0133313556944156 | 0.0109391249355292 | 0.0133909255445777 | 0.0112180443004255 |
| 0.0146787055964329 | 0.0124036614007044 | 0.0146579965350163 | 0.0137384697939674 |
| 0.000922452168671887 | 0.000780581392465708 | 0.000928993071353978 | 0.00074397402873836 |
| 8.72113217970494e-05 | 5.67772826082639e-05 | 0 | 5.97452909570014e-05 |
| 0.17369409172154 | 0.165095724019291 | 0.157438564276816 | 0.151580793044038 |
| 0.0233399993517773 | 0.0188864047992751 | 0.0232916438823836 | 0.0187679642482026 |

| group | NH_Nmg/kg | ON_Nmg/kg | TNg/kg | TPg/kg | APmg/kg | SOMg/kg | SOCg/kg |
|----------|-----------|-----------|--------------|--------------|---------|--------------|--------------|
| 15. 0-20 | 5. 291 | 11. 5675 | 1. 127786667 | 0. 33153616 | 2. 85 | 15. 73993994 | 9. 129895555 |
| 15. 0-20 | 5. 156 | 11. 981 | 1. 145782271 | 0. 342233157 | 3. 075 | 16. 65528016 | 9. 660835361 |
| 15. 0-20 | 6. 0795 | 12. 187 | 1. 034535872 | 0. 344151015 | 3. 45 | 17. 44390536 | 10. 11827457 |
| 15. 0-20 | 5. 6135 | 11. 6625 | 1. 148105091 | 0. 365006367 | 3. 35 | 17. 20517612 | 9. 979800535 |
| 15. 0-20 | 6. 559 | 12. 2 | 1. 069790199 | 0. 348696345 | 3. 55 | 17. 06698778 | 9. 899644882 |
| 15. 0-20 | 5. 7398 | 11. 9196 | 1. 116657552 | 0. 346324609 | 3. 255 | 16. 82225787 | 9. 757690181 |
| 25. 0-20 | 5. 476 | 6. 6815 | 1. 230877316 | 0. 326480618 | 4. 45 | 20. 4618092 | 11. 86879884 |
| 25. 0-20 | 5. 8475 | 5. 5575 | 1. 2784219 | 0. 322089863 | 3. 95 | 21. 11007496 | 12. 24482306 |
| 25. 0-20 | 5. 313 | 7. 192 | 1. 600916351 | 0. 337379061 | 4. 15 | 28. 42043663 | 16. 48517206 |
| 25. 0-20 | 4. 8515 | 6. 256 | 1. 59348758 | 0. 336718517 | 3. 6 | 28. 56952731 | 16. 57165157 |
| 25. 0-20 | 7. 635 | 8. 999 | 1. 786102378 | 0. 342858117 | 3. 9 | 31. 73166016 | 18. 40583536 |
| 25. 0-20 | 5. 8246 | 6. 9372 | 1. 515452661 | 0. 333105235 | 4. 01 | 26. 05870165 | 15. 11525618 |
| 35. 0-20 | 4. 001 | 6. 514 | 1. 320750149 | 0. 324861233 | 3. 85 | 23. 27546567 | 13. 50085016 |
| 35. 0-20 | 3. 2225 | 6. 456 | 1. 510169596 | 0. 311144601 | 4. 8 | 24. 84829376 | 14. 41316344 |
| 35. 0-20 | 3. 377 | 6. 347 | 1. 638126535 | 0. 319880551 | 4. 45 | 26. 67314079 | 15. 47165939 |
| 35. 0-20 | 4. 3295 | 6. 8785 | 1. 345162106 | 0. 319467207 | 4. 3 | 24. 01409543 | 13. 92928969 |
| 35. 0-20 | 4. 547 | 8. 773 | 1. 499944429 | 0. 328779302 | 4. 85 | 7. 803776776 | 14. 87478676 |
| 35. 0-20 | 3. 8954 | 6. 9937 | 1. 453694608 | 0. 320826579 | 4. 45 | 21. 32295449 | 14. 43794989 |
| 45. 0-20 | 4. 1975 | 6. 4045 | 1. 39134012 | 0. 294369529 | 2. 7 | 21. 56513771 | 12. 50878057 |
| 45. 0-20 | 5. 08 | 6. 492 | 1. 24865384 | 0. 297348293 | 4. 55 | 19. 60988211 | 11. 3746416 |
| 45. 0-20 | 5. 13 | 8. 711 | 1. 277952876 | 0. 310895795 | 3. 8 | 20. 59471867 | 11. 9458925 |
| 45. 0-20 | 4. 8325 | 6. 886 | 1. 446854785 | 0. 3100493 | 4. 05 | 23. 0989268 | 13. 39844942 |
| 45. 0-20 | 5. 3495 | 7. 524 | 1. 50360942 | 0. 278213496 | 3. 6 | 19. 9806128 | 11. 5896826 |
| 45. 0-20 | 4. 9179 | 7. 2035 | 1. 379604119 | 0. 298175283 | 3. 74 | 20. 96985562 | 12. 16348934 |

| MBCg/kg | MBNg/kg | DOCg/kg | DONg/kg | pH | WC | soil particle density |
|-------------|-------------|-------------|-------------|-------|-------------|-----------------------|
| 0.60231272 | 0.149991621 | 0.325022624 | 0.126289593 | 8.245 | 0.245498112 | 0.2778 |
| 0.46732774 | 0.120772947 | 0.326407323 | 0.12993135 | 8.28 | 0.229148815 | 0.2151 |
| 0.584805741 | 0.135280046 | 0.294164811 | 0.125122494 | 8.295 | 0.240998599 | 0.2 |
| 0.730628481 | 0.157871475 | 0.357613365 | 0.146968974 | 8.17 | 0.219548872 | 0.3054 |
| 0.500052165 | 0.172665623 | 0.403380282 | 0.120093897 | 8.285 | 0.240773943 | 0.2676 |
| 0.577025369 | 0.147316342 | 0.341317681 | 0.129681262 | 8.255 | 0.230487999 | 0.3301 |
| 0.311619629 | 0.16662429 | 0.42187643 | 0.110160183 | 8.19 | 0.2465969 | 0.3381 |
| 0.404784689 | 0.163388269 | 0.405454545 | 0.115741627 | 8.15 | 0.267882896 | 0.3209 |
| 0.186419753 | 0.105109739 | 0.491481481 | 0.120925926 | 8.225 | 0.250697321 | 0.2925 |
| 0.493444444 | 0.177685185 | 0.41475 | 0.125 | 8.165 | 0.227028411 | 0.3066 |
| 0.424597519 | 0.113134512 | 0.417434679 | 0.13672209 | 8.235 | 0.242372047 | 0.3223 |
| 0.364173207 | 0.145188399 | 0.430199427 | 0.121709965 | 8.193 | 0.245271664 | 0.29 |
| 1.063868711 | 0.110842077 | 0.323583535 | 0.149636804 | 6.955 | 0.266413725 | 0.3134 |
| 0.319005137 | 0.108678021 | 0.519513382 | 0.147542579 | 6.9 | 0.300715092 | 0.3715 |
| 0.62310231 | 0.119636964 | 0.366188119 | 0.152524752 | 6.8 | 0.259736413 | 0.2966 |
| 0.499262899 | 0.076804077 | 0.365995086 | 0.155872236 | 6.765 | 0.286960776 | 0.2661 |
| 0.37793842 | 0.101383311 | 0.42453012 | 0.148915663 | 6.77 | 0.293519798 | 0.2955 |
| 0.576635496 | 0.10346889 | 0.399962048 | 0.150898407 | 6.838 | 0.311831854 | 0.2853 |
| 0.335925007 | 0.133811231 | 0.46337469 | 0.129330025 | 6.96 | 0.277362339 | 0.323 |
| 0.623805753 | 0.144013372 | 0.448171021 | 0.129833729 | 6.84 | 0.279503106 | 0.3196 |
| 0.769033695 | 0.151489836 | 0.442656642 | 0.144411028 | 6.765 | 0.346006107 | 0.3508 |
| 0.486432161 | 0.143029965 | 0.565728643 | 0.141909548 | 6.915 | 0.329895941 | 0.3519 |
| 0.663115416 | 0.139270021 | 0.313995157 | 0.130266344 | 6.95 | 0.314803303 | 0.361 |
| 0.575662406 | 0.142322885 | 0.446785231 | 0.135150135 | 6.886 | 0.313430311 | 0.3442 |

| AKmg/kg | 黏粒% | 粉粒% | 砂粒% |
|---------|------------|------------|------------|
| 139.475 | 28.477681 | 40.300263 | 31.222057 |
| 126.515 | 30.628751 | 41.07207 | 27.97986 |
| 128.655 | 27.971441 | 39.150141 | 32.878417 |
| 135.123 | 27.192433 | 39.285087 | 33.522482 |
| 115.935 | 26.568265 | 39.125741 | 34.305993 |
| 135.123 | 28.1677142 | 39.7866604 | 31.9817618 |
| 128.655 | 26.801011 | 38.974401 | 34.224588 |
| 135.123 | 26.197829 | 38.370492 | 35.431679 |
| 146.063 | 25.288949 | 37.470128 | 37.240923 |
| 137.295 | 30.375426 | 42.453121 | 27.171452 |
| 130.803 | 30.893936 | 39.529513 | 29.576551 |
| 143.859 | 27.9114302 | 39.359531 | 32.7290386 |
| 118.035 | 31.862851 | 40.433788 | 27.703361 |
| 122.259 | 31.665978 | 38.999443 | 29.334578 |
| 135.123 | 33.281559 | 44.302593 | 22.415848 |
| 128.655 | 30.051945 | 39.270564 | 30.677491 |
| 128.655 | 30.993736 | 41.551571 | 27.454694 |
| 113.843 | 31.5712138 | 40.9115918 | 27.5171944 |
| 115.935 | 33.735057 | 41.633789 | 24.631154 |
| 105.555 | 31.428224 | 41.145379 | 27.426396 |
| 107.615 | 31.871792 | 39.678345 | 28.449865 |
| 101.459 | 31.406746 | 38.969766 | 29.623488 |
| 103.503 | 33.429538 | 39.298495 | 27.271967 |
| 115.935 | 32.3742714 | 40.1451548 | 27.480574 |