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Reference: Recharge assessment program for Lake MacKay

Recharge assessment overview

Recharge has been identified as a key variable in the Agrimin Mackay Potash Project that impacts the brine concentration and sustained flows to extraction trenches over the life of the mine. Annual net recharge to the groundwater is variable and is dependent on:

- Soil physical properties of the surface and the unsaturated zone
- Rainfall and seasonal distribution
- Evaporation and seasonal distribution
- Depth to groundwater
- Dispersion/diffusion characteristics and concentration of solutes

An assessment regime was developed to provide the necessary recharge inputs to a regional groundwater flow and transport model (MODFLOW-SURFACT) that will result in a robust quantification of the likely impact that recharge will have on groundwater flow and solute concentration during harvesting and depletion of brine over the mining life. The assessment regime consisted of both infield measurements and laboratory analysis of intact profile cores of the top 0.5 meters. The assessment regime aimed to quantify profile hydraulic and solute transport properties that could be used to assess recharge at various groundwater depletion levels expected during mining operations.

The assessment regime broadly consisted of the following:

- 1. Infield infiltrometer assessments
 - defines the rate of rainfall infiltration
- 2. Infield closed lysimeters
 - allows for evaporation calibration
- 3. Lab initial conditions assessment
 - defines the bulk physical properties of the top 0.5m
 - defines the bulk solute properties of the top 0.5m
- 4. Lab column leaching tests
 - defines profile saturated conductivity
 - defines solute leaching behavior
- 5. Lab core multi step outflow curves with inverse modelling using Hydrus 1D
 - defines the pore distribution function
 - defines the unsaturated hydraulic function
- 6. Recharge modelling using Hydrus 1D
 - defines the average level of recharge at different groundwater depletion levels

Sampling regime

It's acknowledged that the surface properties of Lake MacKay are variable. Hence, the assessment regime included sampling across the playa as shown in Figure 1. Not all sites were used for each assessment method. The following summarizes the sites selected for each assessment method.

- 1. Infield infiltrometer assessments
 - all 40 sites
- 2. Infield closed lysimeters
 - 2 sites (T2AH-001, T13H-001)
- 3. Initial conditions assessment¹

¹ refer to Recharge Assessment Perth Laboratory Program (Stantec 2019) for results



- 16 sites (T2AH-001, T13H-001, T13H-006, CTH-001, CTH-002, CTH-003, CTH-004, CTH-005, CTH-006, CTH-008, CTH-009, CTH-011, CTH-013, CTH-014, CTH-017, CTH-018)
- 4. Column leaching tests
 - 16 sites (T2AH-001, T13H-001, T13H-006, CTH-001, CTH-002, CTH-003, CTH-004, CTH-005, CTH-006, CTH-008, CTH-009, CTH-011, CTH-013, CTH-014, CTH-017, CTH-018)
- 5. Core multi step outflow curves with inverse modelling using Hydrus 1D
 - 16 sites (T2AH-001, T13H-001, T13H-006, CTH-001, CTH-002, CTH-003, CTH-004, CTH-005, CTH-006, CTH-008, CTH-009, CTH-011, CTH-013, CTH-014, CTH-017, CTH-018)

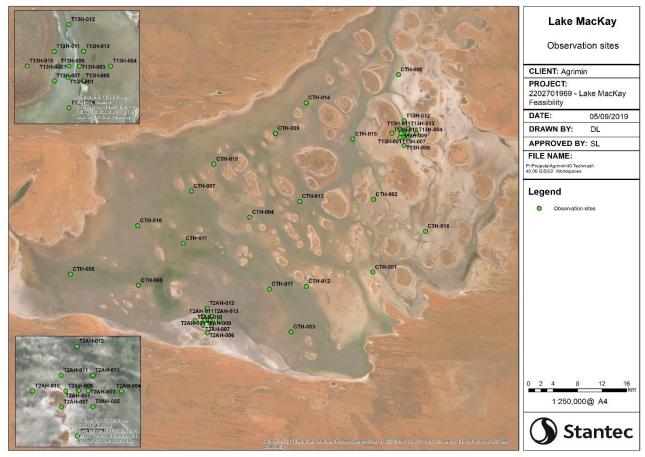


Figure 1: Distribution of profile sampling and assessment sites across Lake MacKay

Surface infiltration

300-320mm diameter single ring infiltrometers were used at each of the assessment sites to determine the infiltration rate variation across the playa. Each infiltration ring was inserted 50mm into the profile with a 100mm head of water controlled by a Mariotte chamber. Infiltration across the Lake varied by orders of magnitude from 1.8 to > 2500 mm/h. The average coefficient of variation of replicate infiltration rates at each assessment site was 51%, which is on the lower side of typical variability experienced with infiltration measurements (Peck 1983). A summary of average infiltration rates is presented in Table 1. Infiltration rates were converted to saturated conductivities based on the insertion depth, head of water and capillary length parameter (Reynolds et al 2002).

Table 1: Average infiltration rates (I) at each assessment site across Lake MacKay

| Site | I (mm/h) | Site | I (mm/h) | Site | I (mm/h) | Site | I (mm/h) |
|----------|----------|----------|----------|----------|----------|---------|----------|
| T2AH-001 | 26.2 | T2AH-013 | 6.3 | T13H-012 | 2287.5 | CTH-009 | 40.4 |
| T2AH-003 | 2.7 | T13H-001 | 1794.0 | T13H-013 | 1683.5 | CTH-010 | 8.9 |
| T2AH-004 | 7.6 | T13H-003 | 2435.7 | CTH-001 | 81.6 | CTH-011 | 14.4 |

| Site | I (mm/h) | Site | I (mm/h) | Site | I (mm/h) | Site | I (mm/h) |
|----------|----------|----------|----------|---------|----------|---------|----------|
| T2AH-005 | 18.9 | T13H-004 | 2816.7 | CTH-002 | 1285.3 | CTH-012 | 42.3 |
| T2AH-006 | 8.2 | T13H-005 | 4688.0 | CTH-003 | 70.7 | CTH-013 | 543.0 |
| T2AH-007 | 414.7 | T13H-006 | 5753.0 | CTH-004 | 246.7 | CTH-014 | 21.6 |
| T2AH-009 | 287.7 | T13H-007 | 2649.7 | CTH-005 | 1.8 | CTH-015 | 24.3 |
| T2AH-010 | 7.2 | T13H-009 | 2010.5 | CTH-006 | 3.4 | CTH-016 | 5000.0 |
| T2AH-011 | 22.0 | T13H-010 | 258.3 | CTH-007 | 38.7 | CTH-017 | 49.1 |
| T2AH-012 | 16.8 | T13H-011 | 223.3 | CTH-008 | 4429.0 | CTH-018 | 42.5 |

Column leaching

Undisturbed 100mm diameter 0.5m length Shelby tube cores were collected in duplicate at selected sampling sites. The column leaching methodology and data are used is described in "Recharge Assessment Perth Laboratory Program (Stantec 2019)". The percentage reduction in retained salts after leaching (L) from the 0-0.5m profile as a function of pore volume leached (P) was modelled using an exponential decay function given by the following:

 $L = R(1 - e^{-c.P})$, where c is a rate constant and R is the maximum reduction in salts.

An example of the fit is given in Figure 2 with all fitting parameters presented in Table 2.

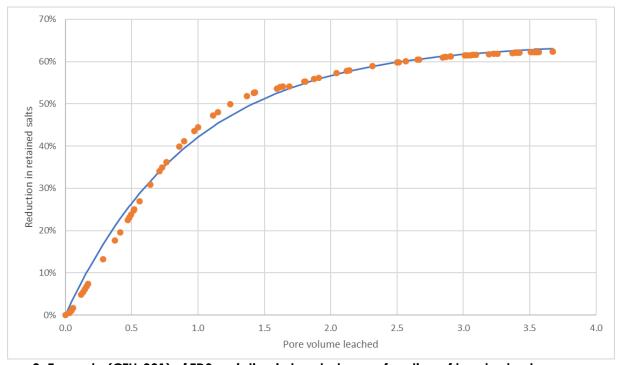


Figure 2: Example (CTH-001) of TDS variation in leachate as a function of leached volume expressed in pore volumes

Table 2: Salt reduction fitting parameters derived from the column leaching test data (R% is the maximum reduction in salts and C defines the rate of salt reduction)

| Site | R (%) | C (-) | Site | R (%) | C (-) |
|----------|-------|-------|----------|-------|-------|
| T2AH-001 | 100 | 0.789 | CTH-006* | - | - |
| T13H-001 | 93.4 | 1.125 | CTH-008 | 63.7 | 1.257 |



| Site | R (%) | C (-) | Site | R (%) | C (-) |
|----------|-------|-------|----------|-------|-------|
| T13H-006 | 75.9 | 1.677 | CTH-009* | - | - |
| CTH-001 | 64.4 | 1.060 | CTH-011* | - | - |
| CTH-002 | 60.3 | 1.367 | CTH-013* | - | - |
| CTH-003 | 85.1 | 0.496 | CTH-014* | - | - |
| CTH-004 | 61.9 | 1.088 | CTH-017 | 100 | 1.060 |
| CTH-005 | 82.7 | 1.050 | CTH-018 | 58.2 | 0.805 |

^{*} core was compromised during leaching procedure

The saturated hydraulic conductivity of the 0-0.5m profile was split into two depths for calculation purposes, 0-0.2m and 0.2-0.5m. The saturated hydraulic conductivities of the 0-0.2m was derived from the infiltration data. The 0.2-0.5m saturated hydraulic conductivities were then derived from the flow rates observed during the column leaching tests under variable head conditions. The saturated hydraulic conductivity over the 0-0.5m unsaturated interval for each site is shown in Table 3.

Table 3: Average profile saturated hydraulic conductivities (K_{sat}) based on infiltration data and column leaching tests

| Site | Depth (cm) | K _{sat} (mm/h) | Site | Depth (cm) | K _{sat} (mm/h) |
|----------|------------|-------------------------|----------|------------|-------------------------|
| T2AH-001 | 0-20 | 13.9 | T2AH-001 | 20-50 | 0.25 |
| T13H-001 | 0-20 | 950 | T13H-001 | 20-50 | 43.0 |
| T13H-006 | 0-20 | 3050 | T13H-006 | 20-50 | 135.4 |
| CTH-001 | 0-20 | 43.2 | CTH-001 | 20-50 | 0.35 |
| CTH-002 | 0-20 | 681 | CTH-002 | 20-50 | 3.9 |
| CTH-003 | 0-20 | 37.5 | CTH-003 | 20-50 | 4.9 |
| CTH-004 | 0-20 | 131 | CTH-004 | 20-50 | 12.3 |
| CTH-005 | 0-20 | 0.9 | CTH-005 | 20-50 | 8.4 |
| CTH-006 | 0-20 | 1.8 | CTH-006 | 20-50 | 0.05 |
| CTH-008 | 0-20 | 2300 | CTH-008 | 20-50 | 127 |
| CTH-009 | 0-20 | 21.4 | CTH-009 | 20-50 | 0.55 |
| CTH-011 | 0-20 | 7.6 | CTH-011 | 20-50 | 0.9 |
| CTH-013 | 0-20 | _ | CTH-013 | 20-50 | 80.2 |
| CTH-014 | 0-20 | 11.5 | CTH-014 | 20-50 | 0.15 |
| CTH-017 | 0-20 | 26.0 | CTH-017 | 20-50 | 0.5 |
| CTH-018 | 0-20 | 22.5 | CTH-018 | 20-50 | 7.0 |

Multi-step outflow and inverse modelling

Undisturbed 3.5 inch (90mm) diameter soil plugs were sampled from selected depth of each Shelby profile core. The core sampling and tempe cell setup and methodology used are described in "Recharge Assessment Perth Laboratory Program (Stantec 2019)". Hydrus inverse modelling (Tuli et al 2001) was used to fit modelled water fluxes at the base of the core to observed fluxes (Figure 3). The porosity characteristics were modelled using a dual porosity van Genuchten function with the saturated hydraulic conductivity defined as reported in Table 3. The total porosity was also pre-defined from the initial condition assessment of the profile (see Recharge Assessment Perth Laboratory Program, Stantec 2019). The fitted parameters are summarized in Table 4.



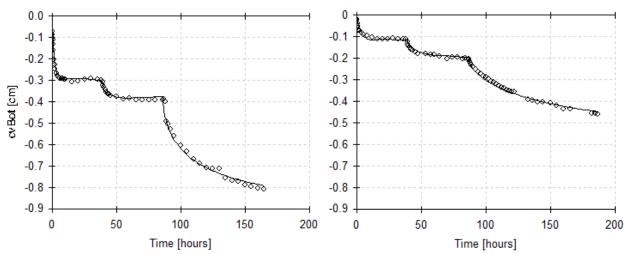


Figure 3: Examples of Hydrus inverse modelling fits to observed multi step outflow data for two contrasting sites, CTH-008 (left) and CTH-005 (right)

Table 4: Average fitted van Genuchten parameters for the Hydrus dual porosity model for the 0-20cm depth

| Site | Qr (v/v) | α ₁ (1/cm) | nı (-) | α ₂ (1/cm) | n ₂ (-) | W2 (%) | l (-) |
|----------|----------|-----------------------|--------|-----------------------|--------------------|--------|--------|
| T2AH-001 | 0.151 | 0.0051 | 2.170 | 0.3831 | 2.070 | 36.4 | 0.3933 |
| T13H-006 | 0.138 | 0.0068 | 1.633 | 0.0392 | 4.889 | 93.6 | 0.8500 |
| CTH-001 | 0.130 | 0.0043 | 2.555 | 0.1014 | 6.872 | 38.3 | 3.3750 |
| CTH-003 | 0.131 | 0.0051 | 1.450 | 0.0938 | 45.150 | 45.9 | 0.7846 |
| CTH-006 | 0.121 | 0.0009 | 1.513 | 0.0216 | 5.942 | 51.8 | 0.0000 |
| CTH-009 | 0.245 | 0.0035 | 1.244 | 0.0612 | 47.530 | 44.4 | 1.5790 |
| CTH-011 | 0.250 | 0.0118 | 1.787 | 0.0277 | 44.900 | 58.7 | 0.0001 |
| CTH-014 | 0.241 | 0.0158 | 1.300 | 0.0571 | 13.200 | 53.1 | 0.0325 |
| CTH-017 | 0.250 | 0.0154 | 1.397 | 0.0611 | 42.990 | 61.3 | 0.3095 |
| CTH-018 | 0.145 | 0.0066 | 1.394 | 0.0635 | 4.595 | 48.2 | 0.3033 |

Qr is the residual water content, α defines the air-entry value, n defines the shape of the water retention function, w is macro porosity the portion, I is the tortuosity parameter and the subscripts 1 and 2 notates micro and macro porosity, respectively

Table 5: Average fitted van Genuchten parameters for the Hydrus dual porosity model for the 20-50cm depth

| Site | Qr (v/v) | α ₁ (1/cm) | nı (-) | α ₂ (1/cm) | n ₂ (-) | w ₂ (%) | l (-) |
|----------|----------|-----------------------|--------|-----------------------|--------------------|--------------------|--------|
| T2AH-001 | 0.257 | 0.0043 | 6.210 | 0.0255 | 7.499 | 48.9 | 0.1611 |
| T13H-001 | 0.242 | 0.0113 | 1.559 | 0.1004 | 54.883 | 58.9 | 0.2189 |
| T13H-006 | 0.182 | 0.0072 | 1.386 | 0.0914 | 41.669 | 47.0 | 7.0030 |
| CTH-001 | 0.137 | 0.0038 | 7.495 | 0.1350 | 1.385 | 37.0 | 0.0000 |
| CTH-002 | 0.277 | 0.0069 | 1.663 | 0.0258 | 9.932 | 55.3 | 0.0001 |
| CTH-003 | 0.298 | 0.0037 | 6.104 | 0.0645 | 7.810 | 51.0 | 0.4943 |
| CTH-004 | 0.118 | 0.0102 | 1.873 | 0.0392 | 17.980 | 50.5 | 0.0000 |
| CTH-005 | 0.225 | 0.0030 | 2.891 | 0.0469 | 23.000 | 57.6 | 1.1830 |
| CTH-006 | 0.306 | 0.0047 | 23.700 | 0.0294 | 6.087 | 38.3 | 0.4672 |
| CTH-008 | 0.269 | 0.0024 | 2.062 | 0.1108 | 2.969 | 47.5 | 1.7160 |
| CTH-009 | 0.210 | 0.0045 | 31.770 | 0.0776 | 2.306 | 16.4 | 3.2740 |
| CTH-011 | 0.316 | 0.0037 | 1.567 | 0.0303 | 34.360 | 27.3 | 2.8750 |
| CTH-013 | 0.188 | 0.0050 | 2.864 | 0.2955 | 52.800 | 53.9 | 0.5258 |
| CTH-014 | 0.235 | 0.0017 | 1.957 | 0.0279 | 5.819 | 81.1 | 0.0000 |
| CTH-017 | 0.204 | 0.0041 | 3.240 | 0.0526 | 4.737 | 16.3 | 1.0500 |



| Site | Qr (v/v) | α1 (1/cm) | nı (-) | α ₂ (1/cm) | n ₂ (-) | w ₂ (%) | l (-) |
|---------|----------|-----------|--------|-----------------------|--------------------|--------------------|--------|
| CTH-018 | 0.216 | 0.0015 | 1.455 | 0.0220 | 5.142 | 51.3 | 0.0000 |

Qr is the residual water content, α defines the air-entry value, n defines the shape of the water retention function, w is macro porosity the portion, I is the tortuosity parameter and the subscripts 1 and 2 notates micro and macro porosity, respectively

Zonation of playa

Modeling of the recharge potential across the playa was split into zones according to surface infiltration characteristics. Zonation of the playa is show in Figure 4 along with assessment points within each zone. Each zone represents an order of magnitude change in infiltration rate.

These zones are used to define the profile physical properties and the salt reduction function based on the above assessments. Average values were taken for all the assessments metrics that were located within each zone as shown for the reduction in salts as a function of pore volume leached (Figure 5).

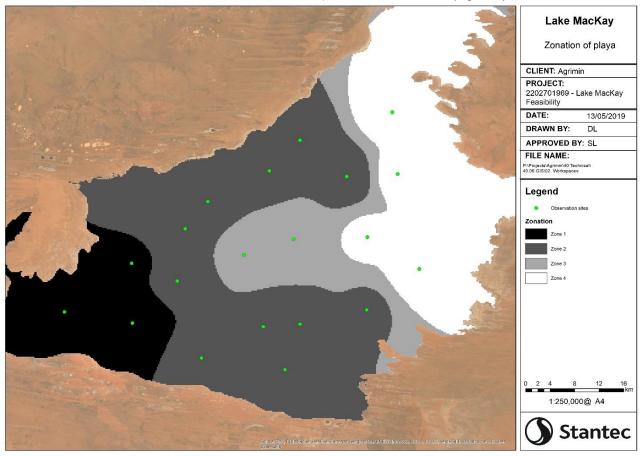


Figure 4: Zonation of Lake MacKay based on variation in surface infiltration data



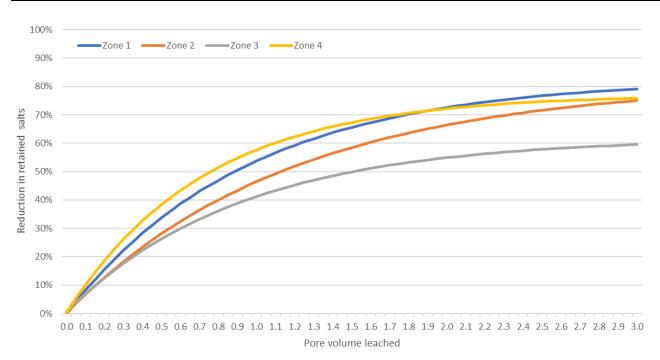


Figure 5: Resultant salt reduction function for each zone based on the percentage reduction in retained salts observed during the column leaching test

Recharge modelling

Hydrus 1D modelling ($\check{\text{Simunek}}$ et al 2013) was used to determine the net recharge to the groundwater for each zone. Net recharge was defined as the net downward flux past the groundwater equilibrium depth. A five metre profile was created with five different material properties with a lower boundary of 0.2, 0.5, 1.0, 3.0 and 5.0 metres. The physical properties of the layers were derived from the above field and lab assessments, data from the preliminary feasibility study and specific yield (S_y) from long-term trench pumping tests. The vertical saturated hydraulic conductivity of the layers below 0.5 metres were taken as 2 orders of magnitude smaller than the horizontal hydraulic conductivity observed in the trench pumping tests based on the anisotropic nature of the profile sediments and consistent with hydraulic conductivity for this interval used in the regional groundwater flow and transport modeling. Table 9 is a summary of the physical properties of the profile for each zone.

The surface boundary condition was set as an atmospheric boundary. The surface conditions were based on daily rainfall and pan evaporation derived from a patch point query² of the nearest Bureau of Metrology (BoM) weather station (15664) at Kintore (approximately 100 km distance from Lake Mackay) from 1st January 1993 to 27th October 2019, representing the period of actual weather data collection at the Kintore station. The evaporation rate from the soil surface was calibrated against the closed lysimeter data to set the maximum matric suction at the soil surface (125cm).

The bottom boundary condition was set as a constant head boundary. The head at the bottom boundary was calibrated so that the groundwater (GW) level equilibrated to the target groundwater depth below ground level (bgl). The required head at the bottom boundary is summarized in Table 6.

Table 6: Head requirement at the bottom boundary to maintain the required equilibrium groundwater level

| Equilibrium GW depth bgl (m) | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 |
|------------------------------|-----|-----|-----|-----|-----|-----|
| Zone 1 | 455 | 400 | 350 | 300 | 250 | 200 |
| Zone 2 | 453 | 400 | 350 | 300 | 250 | 200 |
| Zone 3 | 465 | 400 | 350 | 300 | 250 | 200 |
| Zone 3 | 452 | 400 | 350 | 300 | 250 | 200 |

² https://www.longpaddock.qld.gov.au/silo/



Recharge modeling outcomes

Table 7 summarises the average recharge into the groundwater as a function of zone and groundwater depth below ground level. As groundwater levels drop the amount of recharge increases. The most recharge is experienced in zones 1 and 2 with the least in zone 4. Whilst infiltration is high in zone 4, evaporation of stored water in the profile is quickly evaporated reducing the amount of time for perched water to migrate past the groundwater reference depth. Nevertheless, infiltration of rainfall does reach the groundwater resulting in periodic rises in groundwater level. Table 8 shows the variation in frequency and magnitude of groundwater rises associated with significant rainfall events as function of zone. Groundwater rises from 2.0m bgl to within 0.4-0.8m of the soil surface only occurred twice for all zones during the 25 year model period. These events had a net 7 day rainfall addition (rainfall less evaporation) of more than 150mm (or rainfall > 250mm). On a monthly basis, rainfall would need to be greater than 300mm for these groundwater rises to occur.

Recharge and ET boundary conditions in the regional groundwater flow and transport model were then established based on the net recharge versus groundwater depth in Table 7.

Table 7: Average annual recharge (mm) into the groundwater as a function of groundwater depth and zone

| Equilibrium GW depth bgl (m) | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 |
|------------------------------|--------|------|-------|-------|-------|-------|
| Zone 1 | -32.7 | 84.1 | 99.5 | 111.8 | 118.6 | 122.6 |
| Zone 2 | -31.6 | 88.8 | 109.0 | 121.4 | 129.6 | 138.7 |
| Zone 3 | -433.8 | 41.9 | 54.2 | 57.2 | 58.4 | 59.0 |
| Zone 4 | -51.8 | 36.3 | 39.8 | 40.9 | 41.4 | 41.7 |

Table 8: The frequency and magnitude of groundwater rises within the 25 year modelling period when the equilibrium groundwater level is at 2.0m bgl

| Rebound depth bgl (m) | 0-0.4 | 0.4-0.8 | 0.8-1.2 | 1.2-1.6 |
|-----------------------|-------|---------|---------|---------|
| Zone 1 | 0 | 2 | 13 | 31 |
| Zone 2 | 0 | 2 | 12 | 26 |
| Zone 3 | 0 | 2 | 8 | 11 |
| Zone 4 | 0 | 2 | 4 | 8 |





Table 9: Physical properties of the profile for each zone used in Hydrus 1D to assess recharge

| Zone | Depth (cm) | Qr (v/v) | Qs (v/v) | Ks (cm/d) | α1 (1/cm) | nı (-) | α ₂ (1/cm) | n ₂ (-) | W2 (%) | l (-) |
|----------|------------|----------|----------|-----------|-----------|--------|-----------------------|--------------------|--------|-------|
| | 0-20 | 0.132 | 0.551 | 3.1 | 0.0033 | 1.732 | 0.0359 | 12.590 | 50.7 | 0.563 |
| <u> </u> | 20-50 | 0.266 | 0.557 | 1.6 | 0.0039 | 13.296 | 0.0381 | 14.544 | 48.0 | 0.825 |
| Zone | 50-100 | 0.385 | 0.439 | 2.2 | 0.0039 | 13.296 | 0.0381 | 14.544 | 48.0 | 0.825 |
| Zc | 100-300 | 0.398 | 0.455 | 2.2 | 0.0039 | 13.296 | 0.0381 | 14.544 | 48.0 | 0.825 |
| | 300-500 | 0.352 | 0.417 | 2.2 | 0.0039 | 13.296 | 0.0381 | 14.544 | 48.0 | 0.825 |
| | 0-20 | 0.188 | 0.497 | 45.9 | 0.0081 | 1.718 | 0.1369 | 23.264 | 47.0 | 0.797 |
| 0 | 20-50 | 0.237 | 0.495 | 1.6 | 0.0035 | 7.334 | 0.0512 | 8.506 | 42.0 | 0.891 |
| Zone | 50-100 | 0.353 | 0.420 | 3.8 | 0.0035 | 7.334 | 0.0512 | 8.506 | 42.0 | 0.891 |
| Zc | 100-300 | 0.417 | 0.479 | 3.8 | 0.0035 | 7.334 | 0.0512 | 8.506 | 42.0 | 0.891 |
| | 300-500 | 0.407 | 0.425 | 3.8 | 0.0035 | 7.334 | 0.0512 | 8.506 | 42.0 | 0.891 |
| | 0-20 | 0.199 | 0.569 | 314.4 | 0.0102 | 1.553 | 0.0479 | 24.344 | 65.4 | 0.366 |
| m | 20-50 | 0.153 | 0.515 | 75.4 | 0.0076 | 2.369 | 0.1674 | 35.390 | 52.2 | 0.263 |
| Zone | 50-100 | 0.362 | 0.432 | 4.1 | 0.0076 | 2.369 | 0.1674 | 35.390 | 52.2 | 0.263 |
| ZC | 100-300 | 0.393 | 0.457 | 4.1 | 0.0076 | 2.369 | 0.1674 | 35.390 | 52.2 | 0.263 |
| | 300-500 | 0.392 | 0.440 | 4.1 | 0.0076 | 2.369 | 0.1674 | 35.390 | 52.2 | 0.263 |
| | 0-20 | 0.141 | 0.642 | 3687.2 | 0.0068 | 1.633 | 0.0392 | 4.889 | 93.6 | 0.850 |
| 4 | 20-50 | 0.233 | 0.550 | 53.6 | 0.0077 | 1.602 | 0.0867 | 34.334 | 52.4 | 2.693 |
| Zone | 50-100 | 0.346 | 0.433 | 5.9 | 0.0077 | 1.602 | 0.0867 | 34.334 | 52.4 | 2.693 |
| ZC | 100-300 | 0.393 | 0.472 | 5.9 | 0.0077 | 1.602 | 0.0867 | 34.334 | 52.4 | 2.693 |
| | 300-500 | 0.392 | 0.453 | 5.9 | 0.0077 | 1.602 | 0.0867 | 34.334 | 52.4 | 2.693 |



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