

IDENTIFYING LONG TERM EMPIRICAL RELATIONSHIPS BETWEEN STORM
CHARACTERISTICS AND EPISODIC GROUNDWATER RECHARGE

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A thesis submitted to the faculty at the University of North Carolina at Chapel Hill in partial fulfillment of the requirements for the degree of Master of Science in the Department of Geological Sciences.

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ABSTRACT

Arik Tashie: Identifying long term empirical relationships between storm characteristics and episodic groundwater recharge
(Under the direction of Tamlin Pavelsky)

Shallow aquifers are an important source of water resources and provide baseflow to streams, yet actual rates of groundwater recharge are difficult to estimate. While climate change is predicted to increase the frequency and magnitude of extreme precipitation events, the resulting impact on groundwater recharge remains poorly understood. We quantify empirical relations between storm characteristics and recharge to precipitation ratios (RPR) for a variety of geographic and land-use types across North Carolina. Increased RPR correlates with increased storm duration, whereas RPR decreases with increasing storm magnitude and intensity, especially in agricultural and urban areas. Though RPR is generally higher during the winter than the summer, this seasonal effect is magnified in the Appalachian and Piedmont regions. If, as predicted, growing seasons lengthen and storm intensity increases with a warming climate, decreased recharge in Appalachia, the Piedmont, and rapidly growing urban areas of the American southeast could further limit groundwater availability.

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LIST OF ABBREVIATIONS

AVG	Average rate of precipitation during a storm event
cm	Centimeter
d	Days
d_T	Maximum fluctuation of the water table due to a factor other than recharge
DEP	Depth to the water table
DUR	Duration of a storm event
EMR	Episodic Master Recession method
H	Elevation of the water table
INT	Intensity of precipitation during storm event
m	Meters
MAG	Total depth of precipitation during a storm event
MRC	Master recession curve
NLCD	National Landcover Database
NOAA	National Oceanic and Atmospheric Administration
RECH	Recharge
RCR	Recurrence interval

RPR	Recharge-to-precipitation ratio
S_y	Specific Yield
t	Time
USGS	United States Geological Survey
WTF	Water table fluctuation

CHAPTER 1: INTRODUCTION¹

1.1 Background

Groundwater is essential both as an economic resource and for maintaining ecological functions in natural systems. Humans have increasingly come to rely on groundwater as a primary water source and an important buffer to less reliable sources of freshwater from precipitation and surface water. Accordingly, in many regions groundwater is being extracted at rates that far exceed sustainable levels (Famiglietti, 2014). Recharge of groundwater reservoirs depends chiefly on infiltration of precipitation and subsequent percolation of infiltrated water below the root zone. Climate model simulations suggest that changing climatic conditions will substantially alter precipitation characteristics, especially by increasing the magnitude, intensity, and frequency of the largest storm events (Allen and Ingram, 2002; Pall et al., 2007; Trenberth et al., 2003). However, the influence of these altered precipitation characteristics on groundwater recharge is complex and remains poorly understood (Taylor et al., 2012).

Since human alteration of the landscape has major impacts on the groundwater system (Calder, 1993), the coupled influence of land-use, vegetation, and soil type on net recharge has been well studied. Across various climates, the reduction of vegetative cover has often been shown to result in an increase in recharge. For example, many studies have found large increases in average annual recharge by the conversion of forests and shrubs to crops and grasses (Allison

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et al., 1990; Hornbeck et al., 1993; Pyrch, 1988; Leterme and Mallants, 2011) or the conversion of grass cover to bare ground (Zhang and Schilling, 2006). In Texas, Keese et al. (2005) showed that recharge tends to increase with a decrease in the density of vegetation. Similarly, in the American southwest Scanlon et al. (2005) showed that the conversion of agricultural land to natural brush and scrub led to decreased rates of recharge. These negative relationships between recharge and vegetative density are due largely to the interception of precipitation and transpiration of soil water (Bosch and Hewlett, 1982; Brown et al., 2005).

However, in many other locations continued human alteration of the landscape has decreased recharge, since spatially averaged infiltration rates can be reduced by urbanization (Dams et al., 2008), deforestation, and certain agricultural practices (Dias et al., 1985a and 1985b; Hanson et al., 2004). Forest clearing for agriculture and urbanization has reduced recharge in east Java (Bruijnzeel, 1988) and urbanization has decreased recharge in China's Guishui River Basin (Pan et al., 2011) as well as across the majority of the Upper Illinois River Basin (Arnold and Friedel, 2000). Apart from land cover, soil texture is also a primary control of recharge rates (Anuraga et al., 2006; Zhang et al., 1999), with clayey soils generally accommodating less recharge than sandy soils (Cook et al., 1992; Keese et al., 2005).

Recharge is also governed by precipitation characteristics, such as duration, magnitude, and intensity of precipitation. Classical theory asserts that low intensity rainfall over long time periods generates the greatest fractional recharge (Freeze and Cherry, 1979), and many modern studies have confirmed this (Huang et al., 2012; Dourte et al., 2012). However, a variety of studies across geographically diverse landscapes have led to contrary conclusions. In east Africa, Taylor and Howard (1996) found that groundwater recharge was restricted to extreme rainfall events and that total recharge was better predicted by the number of heavy events than by net

annual precipitation. Crosbie et al. (2012) similarly found that the majority of annual recharge in the Murray-Darling Basin, Australia, was generated by a small number the largest precipitation events. A positive correlation between magnitude of precipitation and fractional recharge has also been shown in the agricultural region of the North China Plain (Kendy et al., 2003, 2004). Further, seasonality of precipitation, antecedent soil moisture conditions, and climate variability have also been shown to significantly impact recharge rates across diverse geographic regions (Lee et al., 2006; Vivoni, 2009).

These seemingly contradictory explanations of the relationships between groundwater recharge and land cover, soil type, and storm characteristics reflect the complex, geographically-dependent variations in infiltration and unsaturated zone storage dynamics. For infiltration to occur, precipitation must first exceed interception by the vegetation canopy. Subsequently, for infiltration to contribute to recharge, the soil must be wetted enough to allow vertical drainage below the root zone (i.e., matric potential is above field capacity). However, if the intensity of the precipitation reaching the ground surface exceeds the soil's infiltration capacity or precipitation magnitude exceeds unsaturated zone storage, runoff will occur and thereby limit the fraction of precipitation that can contribute to recharge. Thus in some situations increasing rainfall intensity might decrease recharge because thresholds for infiltration excess overland flow are reached. In other locations increased rainfall duration may lead to decreased recharge because thresholds for saturation excess overland flow are reached. Thresholds for runoff generation by either infiltration or saturation excess depend not only on rainfall characteristics, but also on the complex non-linear influences of soil stratigraphy, hydraulic properties, topography, vegetation, and antecedent conditions (e.g., Mirus and Loague, 2013). Similarly, the conditions favoring groundwater recharge over evapotranspiration or runoff generation depend

largely on the of non-linear unsaturated zone response to precipitation. Given the predictions of altered storm characteristics due to climate change and ever-evolving land-use patterns, it is important to understand the relationships between recharge and storm characteristics across land-uses and soil types. What is lacking from the scientific record is a long-term empirical study of how storm characteristics have affected recharge across a climactically similar but physiographically diverse landscape.

One potential obstacle to empirical studies of this type is the dearth of methods available for estimating groundwater recharge which have fine spatial resolution and applicability over long periods of time and diverse landscapes (Scanlon et al., 2002). For example, the baseflow discharge method (e.g., Meyboom, 1961) and isotopic or chemical tracers (e.g., Taylor et al., 1989) are both capable of calculating recharge over tens of years (or centuries). However, these methods tend to integrate over months or years making it impossible to isolate individual recharge events. Conversely, seepage meters (Scanlon et al., 2002), heat tracers (e.g., Rorabough, 1964), and lysimeters (e.g., Allen et al., 1991) may be used to measure recharge over very small time scales. Unfortunately, their expense and relative complexity have inhibited development of long term data sets, making rigorous statistical analysis difficult. Finally, diffuse flow methods for calculating recharge from unsaturated hydraulic conductivity and soil moisture measurements, such as the zero plane flux method (Richards et al., 1956) and various Darcian methods (e.g., Nimmo et al., 1994), ignore preferential flow, which is often a major contributor to recharge (Cuthbert et al., 2013; Mirus and Nimmo, 2013).

The Water Table Fluctuation (WTF) method (Meinzer, 1923; Healy and Cook, 2002) estimates groundwater recharge by integrating the rise and fall of the water table over time. In shallow aquifers, where the water table responds quickly to water inputs, recharge events may be

isolated and associated with individual precipitation events. The Episodic Master Recession (EMR) method (Nimmo et al., 2015), is an adaptation of the WTF method that facilitates analysis of groundwater recharge and concomitant precipitation at high temporal resolution in a consistent and rigorous manner. Further, the EMR method relies primarily on two of the most widely available and readily accessible types of long-term hydrologic data (groundwater levels and precipitation), which facilitates large-scale studies across geographically diverse regions. Given water table and precipitation records of sufficient duration and temporal resolution it is thus possible to use the EMR method to evaluate the influence of storm characteristics on episodic groundwater recharge.

Here we present a novel application of the EMR method with the objective of improving empirical understanding of 1) how storm characteristics relate to groundwater recharge and 2) whether those relationships are affected by the physiographic characteristics of the landscape. Because climate models tend to predict an increase in the frequency and magnitude of the largest storms and a lengthening growing season, we are particularly interested in understanding how fractional recharge responds to storm magnitude, intensity, and seasonality. To do so, we assess long-term trends in the relationships between fractional recharge and storm characteristics across a broad geographic gradient in the American southeast at locations with different land use and land cover. We analyze the relative strengths of these relations across a variety of locations, and our quantitative assessment of how recharge relates to changes in precipitation regimes accounts for possible variations in land development and geography. Finally, in light of this analysis, we assess the possible impacts of climate change and land use patterns on groundwater recharge in humid subtropical and subtropical highland climates.

1.2 Study Area

We selected the state of North Carolina, USA, as the study area due to its geographic diversity across a consistent latitude, as well as the availability of high-resolution water table data within a variety of land-use and land cover types. North Carolina is divided into three physiographic provinces from east to west: the Coastal Plain, the Piedmont, and Appalachia. The Coastal Plain is flat, experiences heavy annual precipitation (120 to 160 cm) (State Climate Office of North Carolina, 2015), has sandy soils, and is underlain by shallow localized sedimentary aquifers (U.S. Geological Survey, 2015). The Piedmont consists of rolling hills and experiences somewhat less annual precipitation (100 to 120 cm), while Appalachian precipitation is location dependent (100 to 180 cm), in part because the region is characterized by some of the greatest relief in the eastern United States. The Piedmont and Appalachia are both underlain by complex fractured Triassic rocks covered by thick regolith. Though most accessible groundwater is stored in shallow regolith, the secondary fractures of the crystalline bedrock are also tapped for groundwater extraction (U.S. Geological Survey, 2015).

We inspected all the available high resolution (hr^{-1}) USGS water level records (U.S. Geological Survey, 2015) from North Carolina (56 total wells) using the SeriesSEE software package (Halford et al., 2012) and established a set of selection criteria to identify data that would be suitable for our analysis. Out of the 56 wells we analyzed, only 10 wells included water-level records that met the selection criteria of: 1) clear water-table responsiveness to individual recharge events, 2) water-level fluctuations that were not dominated by diurnal evapotranspiration signals, 3) greater than 10 years of continuous water-level observations, with limited data gaps, and 4) close proximity to a rain gauge with available data for the duration of observation. For the fourth criteria we relied on the nearest high resolution (hr^{-1}) NOAA

precipitation measurements. Figure 1 shows the locations of the ten sites considered and Table 1 summarizes the physical characteristics of each location.

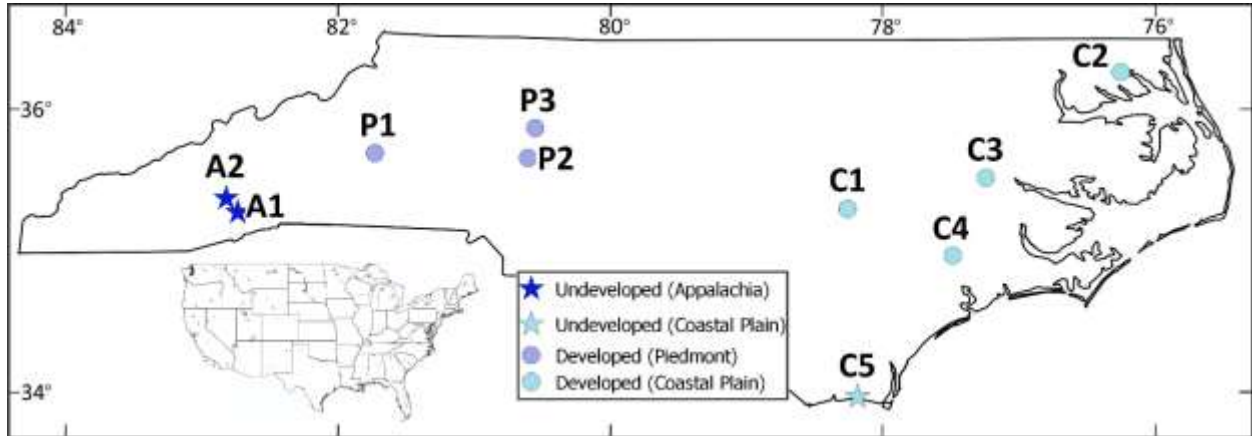


Figure 1: Location of the 10 water table records used in this study.

All of the ten wells that met the selection criteria (Figure 1, Table 1) are in relatively shallow surficial aquifers, with an average depth to water table of two to three meters and a typical seasonal range of water table depths of one to two meters. Two of the data sets (A1 and A2) represent relatively undeveloped locations in the Pisgah National Forest in the Appalachian Mountains, though A2 abuts a trail network and has seen moderate landscape alteration. Both Appalachian wells are in sandy loam soils (Soil Survey, 2015). The next two locations (P2 and P3) are in the central Piedmont and have thick clayey or loamy clayey soils, as does the fifth location (P1) located in the border region between the western Piedmont and the eastern Appalachian Mountains. These five Piedmont and Appalachian wells fall within the range of the Piedmont and Blue Ridge crystalline-rock aquifer system, with four wells in regolith (A1, A1, P2, and P3) and one (P1) in undifferentiated bedrock. The remaining five sites are in the Coastal Plain and fall within the range of the surficial aquifer system of eastern North Carolina. All five

Coastal Plain wells are in shallow post-Miocene rocks with overlying soils ranging from loamy (C2), to loamy-sandy (C1, C3, and C4), to sandy (C5).

Location	Latitude	Longitude	Level of Development	Dominant Soil Type	Region	Proximate City	Distance to Rain Gauge (km)	Number of Events Captured	Aquifer
A1	35.285833	-82.728056	Undeveloped	Loam	Appalachia	Asheville	23	460	Regolith
A2	35.387778	-82.812222	Undeveloped	Sandy loam	Appalachia	Asheville	25	653	Regolith
C5	33.941389	-78.198611	Undeveloped	Sand	Coastal Plain	Wilmington	45	186	Post-Miocene rocks
P1	35.717222	-81.725556	Developed	Sandy loam	Piedmont	Ashford	27	175	Undifferentiated bedrock
P3	35.899819	-80.554781	Developed	Clayey loam	Piedmont	Yadkinville	23	325	regolith
P2	35.682783	-80.607047	Developed	Loam	Piedmont	Mooreville	23	444	Regolith
C1	35.309722	-78.272778	Developed	Sandy loam	Coastal Plain	Clinton	30	284	Post-Miocene rocks
C3	35.538333	-77.261389	Developed	Sandy loam	Coastal Plain	Greenville	14	467	Post-Miocene rocks
C4	34.970000	-77.503333	Developed	Loamy sand	Coastal Plain	Morehead City	74	254	Post-Miocene rocks
C2	36.308333	-76.275278	Developed	Loam	Coastal Plain	Elizabeth City	7	296	Post-Miocene rocks

Table 1: Summary of physical characteristics at each location.

To account for the potential impact of land-use we assessed fractional land cover in the proximate area (radius of 500 meters) of each well site using the National Land Cover Database 2011 (NLCD, 2011). First, we simplified the class structure into two categories: “developed” (NLCD classes: Developed and Planted/Cultivated) and “undeveloped” (NLCD classes: Barren, Forest, Shrubland, and Herbaceous), with areas of open water being removed. To correct for dynamic land cover attributes or possible misattributions by the NLCD, we visually compared the dataset with current and historical geospatial data from Google Earth dating back to 1993. In the four sites (C1, C3, C4, and C5) in which they appeared, the NLCD classes Woody Wetlands (90) and Emergent Herbaceous Wetlands (95) coincided with incipient regrowth in areas subject to clear cutting during the period of record. Therefore, we calculated fractional land cover using two different methods: 1) excluding these classes and 2) categorizing them as “developed.” In both scenarios, the same three locations (A1, A2, and C5) were less developed (20-31% and 18-31%) while the seven other locations were more heavily developed (48-88% and 56-89%).

CHAPTER 2: METHODS

2.1 The EMR Method

The WTF method relates rises in groundwater levels to recharge arriving at the water table:

$$R = S_y \Delta H_e \quad (1)$$

where R is recharge [L]; S_y is specific yield [-]; and ΔH_e [L] is the effective rise in the water table, which is actual groundwater rise due to recharge corrected for ongoing groundwater recession (discussed below). The WTF method can be applied to shallow, unconfined aquifers that show steep water level rises and declines (Healy and Cook, 2002). Possible sources of error include changes in the water table elevation due to anything other than recharge or steady water table recession, including: 1) strong evapotranspiration-driven diurnal fluctuations (White, 1932), 2) heavy groundwater pumping (Healy and Cook, 2002), 3) changes in atmospheric pressure (Weeks, 1979), 4) pressure changes due to entrapped air (Krul and Lieftrinck, 1946), and 5) rapid conversion of capillary water to phreatic water where the water table is near the ground surface (Heliotis and DeWitt, 1987). We eliminate the first two of these errors by careful site selection (see criteria described above) while the remaining types of error described above are inherently minimized by application of the EMR method (see Nimmo et al, 2015).

The EMR method uses a computer program (written in the software package R) to identify episodic recharge by searching for periods of significant water level rises, which are estimated using a master recession curve (MRC) [$L T^{-1}$] and a fluctuation tolerance parameter

(d_T) [$L T^{-1}$]. An MRC is a mathematical representation of expected water table decline in the absence of episodic recharge as a function of hydraulic head (Heppner and Nimmo, 2005; Crosbie et al., 2005) and d_T is an estimate of the maximum magnitude of water table fluctuations caused by factors other than recharge. Thus, a recharge event is identified if:

$$\Delta H_a > d_T - \Delta H_{MRC} \quad (2)$$

where ΔH_a is the actual change in water table level; and ΔH_{MRC} is the MRC extrapolated water table decline in the absence of recharge. Since recharge has already begun when ΔH_{MRC} exceeds this threshold, the beginning of the event (t_i) is set to the time when ΔH_a first exceeds ΔH_{MRC} . A recovery time parameter (t_p) is then used to determine the precipitation event window to attribute to each recharge event.

The end of a recharge event is often characterized by non-recharge related water table declines (e.g., escape of entrapped air). To account for the effects of these fluctuations, the end of a recharge event (t_f) is defined as the earliest time when ΔH_a equals ΔH_{MRC} after having first decreased to some value below ΔH_{MRC} , then water levels are extrapolated forwards and backwards in time from t_i and t_f using the MRC. ΔH_e is defined as the difference between these two extrapolations at time t_{i+p} . S_y is measured or estimated for each location, and R is solved for using equation (1). An example of how the EMR method is applied for a single storm event is illustrated in Figure 2.

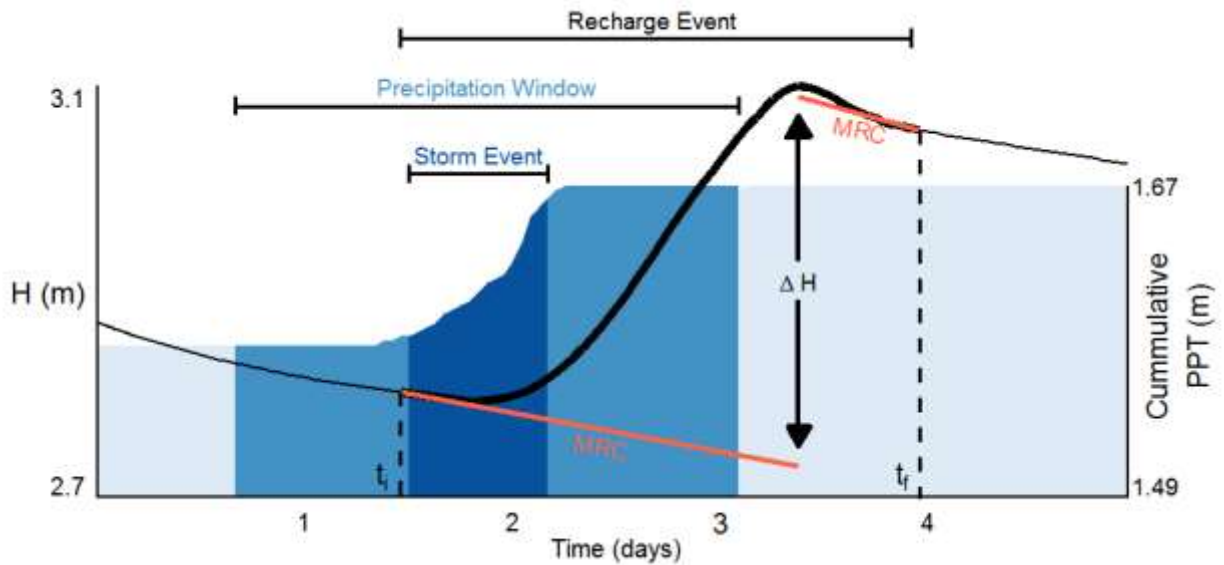


Figure 2: Graph illustrating an example implementation of the EMR method using observed data at C3 in late January, 1993. The black line shows water table height above datum, made bold during periods of recharge and thin between periods of recharge. Red lines are MRC extrapolations forward and backward in time from the start and end of a period of recharge. Rise in water table is calculated as the difference between these extrapolations at each event. Cumulative precipitation is shown in blue, with medium blue indicating the time window during which precipitation may have generated recharge (i.e., the Precipitation Window) and dark blue indicating the time period when 90% of this precipitation fell (i.e., the Storm Event).

2.2 Parameterization and Data Analysis

The EMR method uses four parameters that are unique to each site: MRC, d_T , t_p , and S_y (see Nimmo et al., 2015). We calculated a unique MRC for each site in Table 1 using recession data during long (> 10 days) inter-recharge periods. To maximize sensitivity to recharge events while minimizing the impact of non-recharge related water table fluctuations, we set d_T to the maximum value of the difference between the MRC calculated recession and observed water table fluctuation during long (> 10 day) periods without precipitation. t_p is an estimate of the time of delay between the onset of a storm event and the initiation of episodic recharge at each

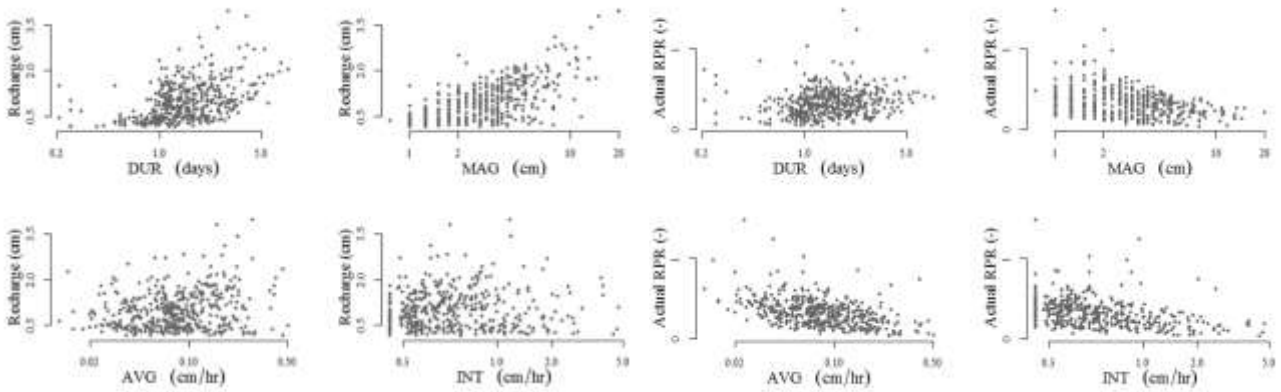


Figure 3: Recharge and RPR values plotted against precipitation characteristics for all events at P2 from 11/1/1989 to 10/1/2013.

location. We assigned t_p an initial value of 2.5 days then decreased this value in one hour increments until recharge events were maximally disaggregated while precipitation windows still contained all precipitation likely to have impacted the associated recharge event.

Although S_y has a substantial impact on R (see equation 1) and is a major source of uncertainty in the WTF method (Healy and Cook, 2002), accurate estimates of S_y are not available for all sites. However, in the absence of spatial or temporal variability of soil moisture retention characteristics, specific yield may be treated as a scaling factor. Since our objective is to understand long-term RPR trends as a function of storm characteristics rather than to calculate accurate estimates of actual recharge, we normalize RPR values at each location by first assuming a constant S_y value as calculated using a pedotransfer function and average values reported by Johnson (1967), then dividing by the mean RPR value at each site (see Figures 3 and 4). By extracting mean RPR values in this manner, we are able to compare the change in relative magnitude of RPR against other parameters among all locations.

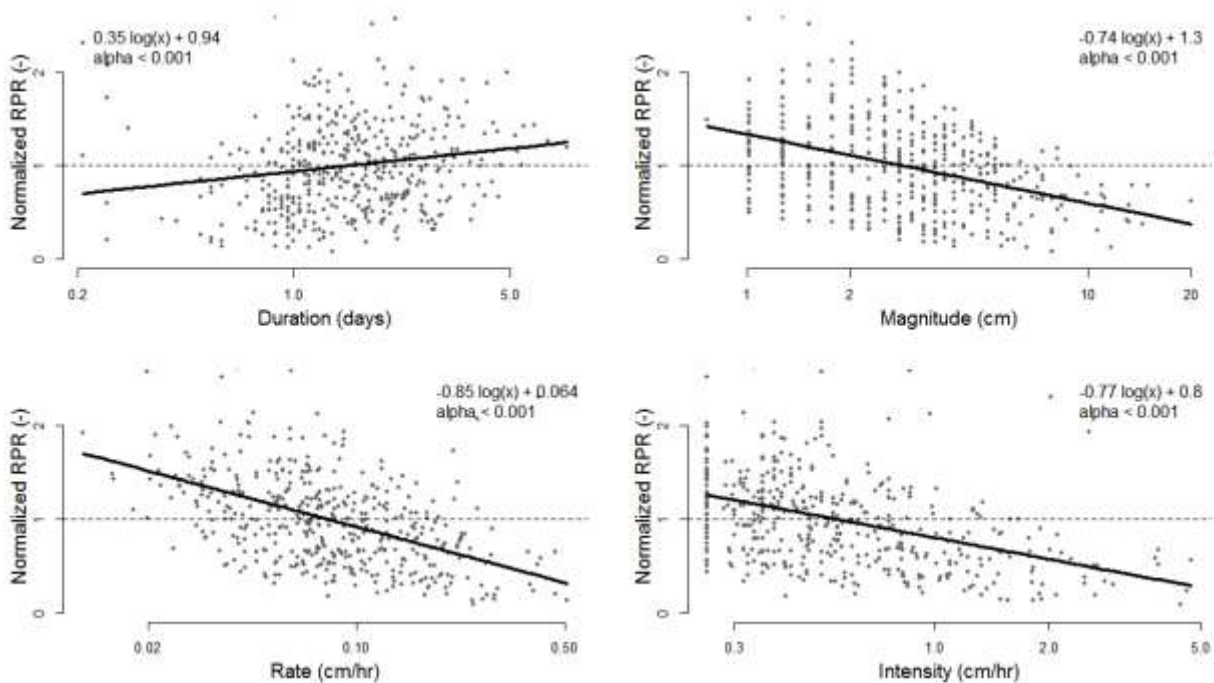


Figure 4: Normalized RPR values plotted against precipitation characteristics for all events at P2 from 11/1/1989 to 10/1/2013. Reported alpha values represent results of both Kendall and Spearman correlation rank tests. Dark black lines are models of logarithmic regression, the equation of which is reported at the top of each plot.

After all recharge and storm events were identified, we removed any events containing substantial gaps in water level or precipitation data from our analysis. We also removed any recharge “events” that lasted longer than 10 days, which are instead representative of diffuse seasonal recharge (not episodic) and cannot reasonably be associated with individual storm events. Due to the distance between several of the precipitation and water table gauges and the error introduced by the spatial variability of precipitation, we eliminated any event below a minimum precipitation threshold (set to 1 cm) for which minor errors in measurement would introduce disproportionate error in the RPR estimate. We also eliminated several anomalous

events for which RPR was calculated to be negative or orders of magnitude greater than the median for the location, which we attributed either to measurement errors in precipitation, to water table fluctuations that overwhelmed the recharge signal, or to wet antecedent conditions that were not accounted for in our time lag selection criteria. These isolated anomalies represented less than 0.4% of the 3,556 events examined, leaving 3,544 individual events suitable for analysis.

For these events, the duration of a storm event (DUR) was defined as the time period within the precipitation window beginning after 5% of total precipitation had fallen and ending when 95% had fallen. Therefore, the magnitude of a storm (MAG) was set to 90% of the precipitation that fell during the precipitation window. We defined the depth to water table (DEP) of an event as the depth in meters to the water table at t_i . While DUR, MAG, and DEP are useful variables for assessing the impact of saturation excess runoff on recharge, to assess the impact of infiltration excess runoff and antecedent soil moisture conditions on recharge, we derived three additional variables: average rate of precipitation (AVG), weighted hourly intensity (INT), and precipitation recurrence interval (RCR). We defined AVG as the mean rate of precipitation during a storm (i.e., MAG/DUR) and INT with the following equation:

$$INT = \frac{\sum(AVG_i)^2}{MAG} \quad (3)$$

where AVG_i is hourly rainfall rate. RCR is the length of time prior to the initiation of a storm event during which there was negligible precipitation (defined as < 1 cm during any 24 hour period). We further separated events by seasonality, with all events occurring between April 15th and October 15th deemed “summer” events and all others deemed “winter” events. Additionally, we evaluated the correlations between RPR and DUR, MAG, DEP, AVG, INT, RCR, and seasonality of storm event.

For each location, we tested values of RPR, DUR, MAG, DEP, AVG, INT, RCR, and actual recharge (RECH) for normality using the Shapiro-Wilk test (Birnbaum and Tingey, 1951). At 99% confidence, none of the data sets were normally distributed. Therefore, we tested the significance of the relationships between RPR and each storm characteristic with both the Kendall (Kendall, 1938) and Spearman (Spearman, 1904) rank correlation tests at each location. We analyzed the change in typical RPR values along incremental increases of storm characteristic values. This was accomplished by ordering the storm events at each location by storm characteristic value, binning the events by quintile, and then assessing the change in median RPR value between the upper and lower quintiles (e.g., Figure 5). We then generated a logarithmic model to describe all statistically significant relationships (e.g., Figure 4).

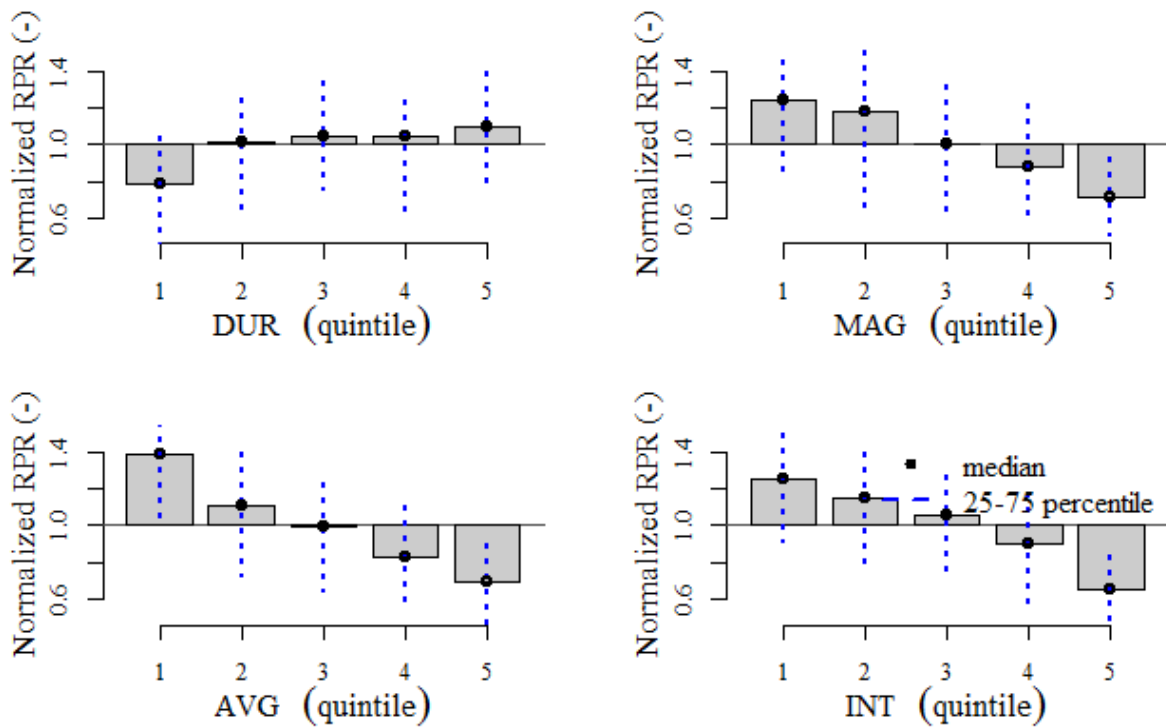


Figure 5: RPR value to precipitation characteristics for all events at P2 from 11/1/1989 to 10/1/2013. X-axes are binned quintiles of storm characteristic values. Reported RPR values are the median value of each quintile relative to the mean RPR value for the period of record.

At no location was RCR significantly correlated with RPR, leading to the conclusion that the length of time between precipitation events is a poor predictor of RPR in North Carolina, so it was excluded from further analysis. While DEP was not significantly correlated with RPR at six of the ten locations, it showed a weak positive correlation with RPR at one location (P2) and a weak negative correlation with RPR at three locations (C1, C2, C4). We assessed the internal correlation of the storm characteristic variables used in this study by evaluating the r^2 values of linear models describing the relations among DUR, MAG, AVG, and INT. DUR was independent ($r^2 \leq .25$) from all other storm characteristics at all locations. While MAG and AVG were

independent at four locations and relatively convolved ($.25 \leq r^2 \leq .51$) at six locations, MAG and INT were relatively convolved at only one location. Despite the reliance on hourly average rates of precipitation for the calculation of both AVG and INT, AVG was independent of INT at six locations and only relatively convolved at four locations.

CHAPTER 3: RESULTS AND DISCUSSION

3.1 Storm Characteristics

Figure 6 illustrates the relative strength of the relationships between RPR and storm characteristics at each location. At all locations, MAG, AVG, and INT were negatively correlated with RPR, while DUR and RPR were positively correlated. However, while the correlations between RPR and AVG and INT were universally significant at 99% confidence, the significance of relationships involving DUR and MAG was location dependent.

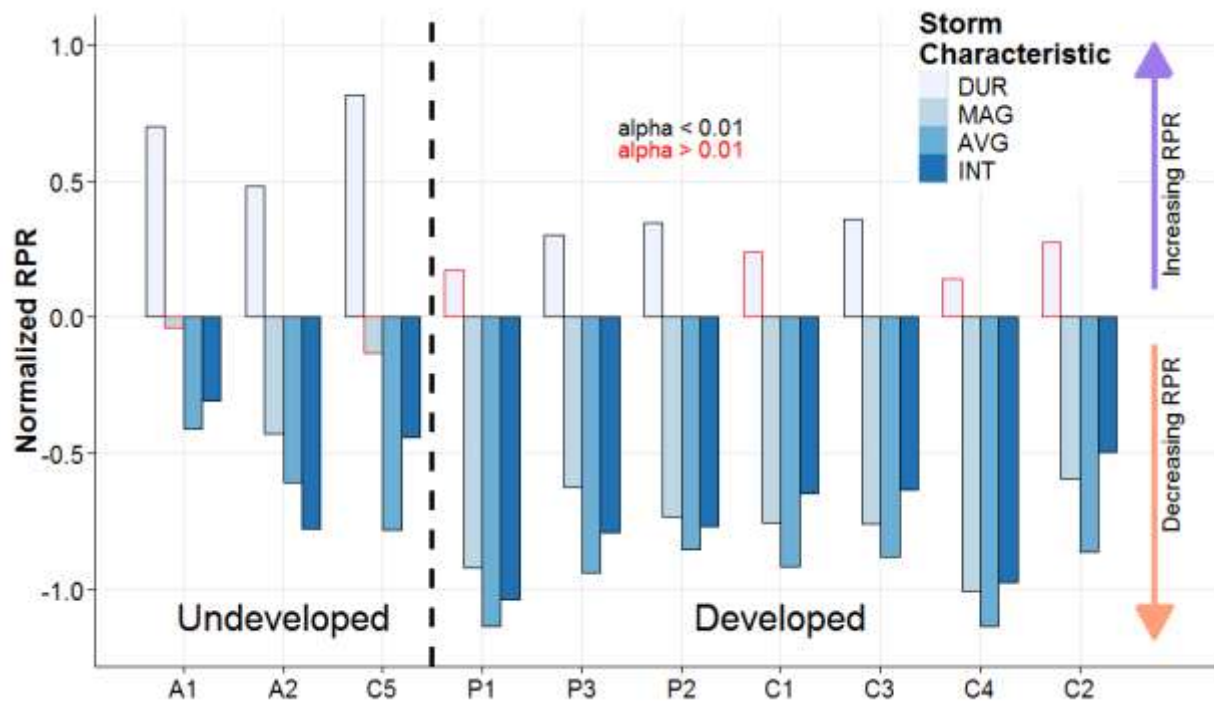


Figure 6: Relative value of scaling component of logarithmic model for relation between RPR and storm characteristic at each location. Maximum alpha values (lowest correlation) of both the Kendall and Spearman correlation rank tests are used to distinguish statistically significant (black outlines) from not significant relations (red outlines).

AVG exhibited the strongest negative constraint on RPR in nine of the ten locations studied. The relative strength of this relationship was greatest in the developed locations, with median RPR values for the first and fifth quintiles decreasing by as much as 69% (see Table 2). The three locations where RPR values showed the weakest relationship with AVG were in areas classified as undeveloped, with sandy or sandy loamy soils. A similar, though muted, response to land-use type was evident in the relationship between RPR and INT.

	UllA1	UslA1	UssC1	DslP1	DclP1	DllP1	DslC1	DslC2	DlsC1	DllC1
DUR	81%	72%	196%	28%	59%	62%	18%	37%	14%	24%
MAG	13%	-11%	-7%	-48%	-44%	-41%	-45%	-41%	-53%	-36%
AVG	-13%	-44%	-50%	-54%	-58%	-51%	-48%	-57%	-69%	-55%
INT	-28%	-52%	-62%	-49%	-49%	-54%	-40%	-43%	-38%	-46%

Table 2: Percent change in median RPR values of the fifth quintile to first quintile of each storm characteristic at each location. Blue and red highlighting represent positive and negative relationships (respectively), with darker hues indicating stronger relationships

In heavily developed locations, the response of RPR to MAG was similar to that of RPR to AVG, with median RPR values of the first and fifth quintiles decreasing by as much as 53%. MAG was not significantly correlated with RPR at two of the three undeveloped locations and only modestly impactful at the third (A2), where median RPR values of the first and fifth quintile decreased by only 11%. Conversely, at all heavily developed locations, DUR was the weakest control on RPR of any of the storm characteristics and was statistically insignificant in this regard at four of the seven locations. In two of the three undeveloped locations, however, DUR was the strongest control on RPR of any of the storm characteristics, with median RPR values of the first and fifth quintiles increasing by as much as 196%. The third undeveloped location, A2,

also showed a strong positive response to DUR, although DUR was not the single greatest control on RPR.

The S_y values we used in calculating both actual RPR and RECH are poorly constrained and a source of major uncertainty. However, since S_y is included as a scaling factor in the calculation of each term, the value of S_y does not affect the relation between actual RPR and RECH. To examine how the relations in Figure 4 influence actual recharge amounts we compare RPR and RECH using a linear model (Figure 7). At all locations RECH was positively correlated with RPR with 99% confidence, though the relationship was relatively weak ($r^2 \leq 0.3$). At the seven developed locations, the slope of the model was relatively moderate ($0.8 \leq m \leq 1.6$) while at the three undeveloped locations the slope was relatively steep ($2.3 \leq m \leq 4.2$). This implies that an increase in RPR has a magnified impact on the actual amount of recharge to shallow aquifers.

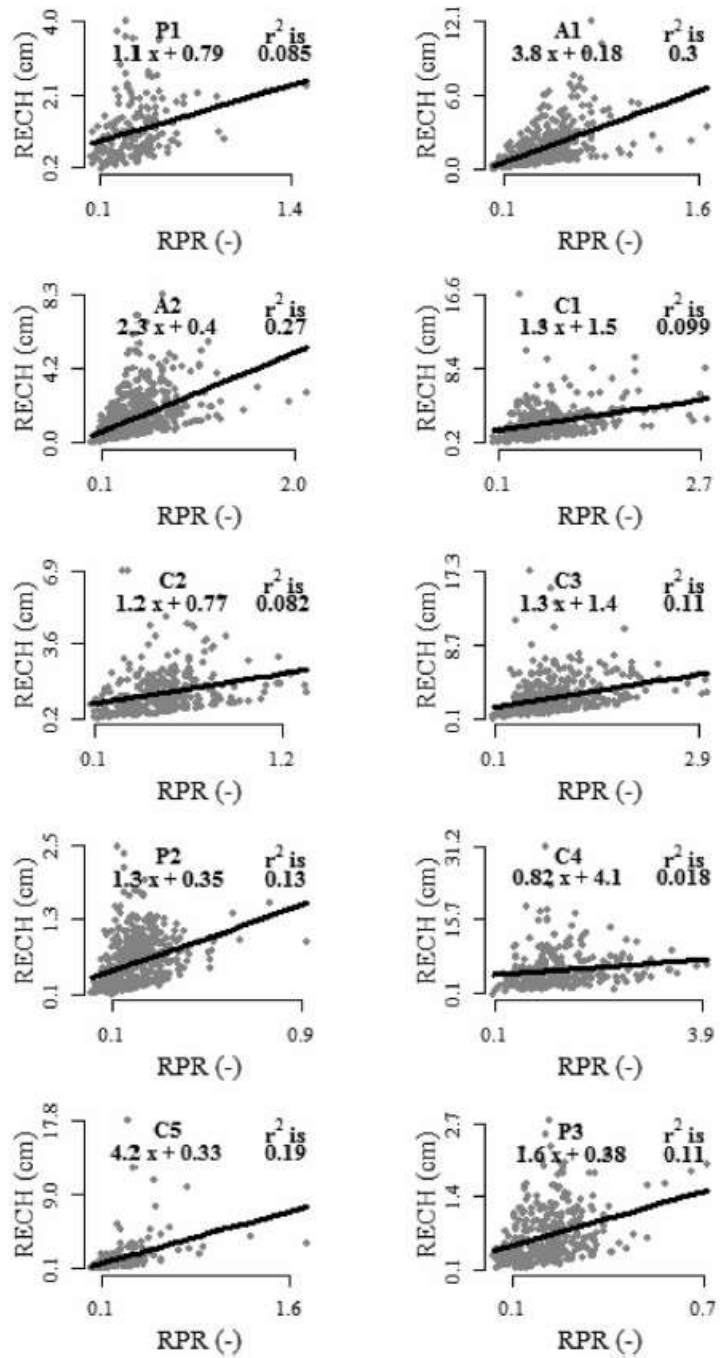


Figure 7: Plots showing relations between RECH and RPR for each monitoring location.

3.2 Seasonality

At 99% confidence none of the data (except for winter RPR values at P1) were normally distributed, so we investigated the significance of the relative difference between summer and winter RPR values with the Mann-Whitney U test (Mann and Whitney, 1947). As Figure 8 shows, median RPR values tended to be higher during the winter than during the summer at all locations, though at only six locations was the difference significant at 99% confidence. The locations exhibiting significant seasonal differences showed no observable similarities in land-use type. Instead, seasonal influence in RPR followed a geographic pattern. In the inland part of the state (Appalachia and the Piedmont), median winter RPR values were as much as 84% higher than in the summer, and four of five locations exhibited statistically significant seasonal impact. Along the Coastal Plain in the eastern part of the state, seasonal impact was insignificant at all locations except two (C2 and C3).

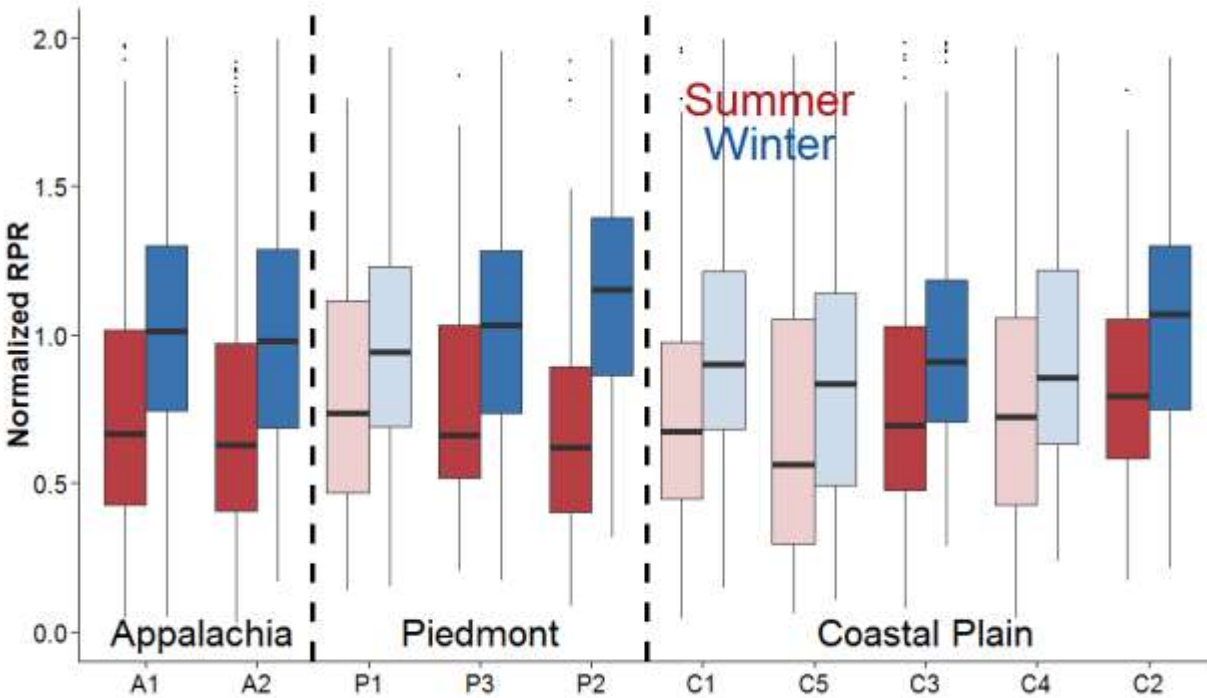


Figure 8: Normalized RPR values of summer and winter events during the period of record for each location. Red and blue boxes represent 25th to 50th percentile RPR values during the summer and winter, respectively. Dark boxes represent statistically significant differences between summer and winter RPR values, and faded boxes represent seasonal RPRs that are not significantly different. Sites are organized by geographic region.

To address the possible impacts of inter-seasonal storm characteristic variability, we also inspected the relative values of all storm characteristics during summer and winter months. During the summer, storms that generated recharge tended to be slightly longer (greater DUR) at all locations and slightly larger (greater MAG) at all locations except in Appalachia, where seasonality had no impact. Interestingly, AVG was constant throughout the year at all locations except two in the Piedmont (P2 and P3, where AVG was higher in the summer). However, INT was significantly greater during the summer at all locations.

We assessed the impact of seasonality on the strength of the relationship between RPR and each storm characteristic by: 1) normalizing RPR values at each location, 2) isolating summer and winter events, 3) generating a logarithmic model describing RPR-to-storm characteristic relationships during each season at each location, and then 4) comparing the relative strength of the scaling components of the logarithmic models for summer events to those for winter events. Figure 9 shows the results of this analysis. At all locations except two (C2 and C3), the effects of storm characteristics on RPR were generally enhanced during the summer and diminished during the winter. Longer storms (greater DUR) generated higher typical RPR values during the summer than during the winter at all undeveloped locations, while the effects of DUR on RPR were relatively constant at developed locations. The effects of MAG on RPR, however, were greatly enhanced during the summer at all Piedmont locations, while seasonality had minimal impact on MAG relationships elsewhere. AVG and INT both exhibited stronger relations with RPR values during the summer than during the winter at all locations except two (C2 and C3).

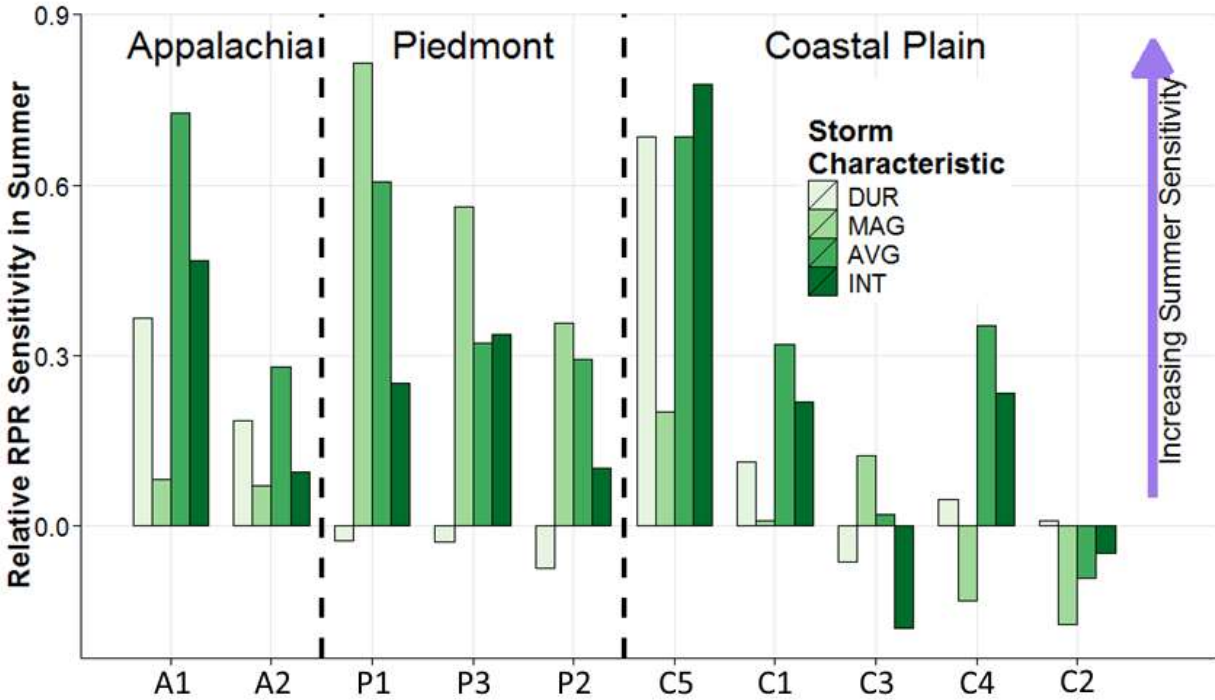


Figure 9: Relative sensitivity of RPR-to-storm characteristic relationships during the summer as compared to during the winter. A value of 0.3 represents a 30% increase in sensitivity during the summer, a value of -0.3 represents a 30% decrease in sensitivity during the summer. Sensitivity is defined as the difference between the relative value of the scaling component of the logarithmic model relating RPR to storm characteristic at each location during the summer and during the winter.

3.3 Hydrologic and Seasonal Controls on RPR

Overall, our results suggest that RPR is strongly influenced by storm characteristics, and that the nature and magnitude of that influence is somewhat influenced by the physiographic characteristics of the landscape. These complex interrelationships are indicative of the subtle interplay of the various hydrologic components governing interception, infiltration, evapotranspiration, redistribution, and macropore flow. Our datasets allowed us to account for the potential influence of land use and geographic setting on recharge to precipitation ratios. However, additional factors such as slope, lithology, and vegetation type, which we did not

consider, would also contribute to the inter-site variability we observed. Regardless, careful analysis of the EMR results reveals some insights about the dominant processes and seasonal controls that influence episodic recharge across the southeastern United States and as well as specific insights at each site.

Location	DUR to MAG	DUR to AVG	DUR to INT	MAG to AVG	MAG to INT	AVG to INT
P1	0.11	0.07	-0.01	0.51	0.30	0.40
A1	0.05	0.14	0.01	0.49	0.21	0.19
A2	0.04	0.21	0.00	0.32	0.15	0.11
C1	0.15	0.08	0.00	0.28	0.18	0.34
C2	0.17	0.07	0.00	0.03	0.16	0.12
C3	0.12	0.09	0.00	0.04	0.17	0.18
P2	0.07	0.14	0.02	0.36	0.18	0.32
C4	0.19	0.11	0.00	0.18	0.19	0.33
C5	0.06	0.15	0.00	0.38	0.19	0.19
P3	0.25	0.07	0.00	0.00	0.17	0.17
Mean r²	0.12	0.11	0.0002	0.26	0.19	0.24

Table 3: Summary of r^2 values of linear models describing the relationships among all storm characteristics at all locations.

Possibly the most striking result is the strong decrease in RPR with increasing AVG and INT at all locations. This indicates that the generation of overland flow is likely an important constraint on groundwater recharge to shallow aquifers in humid climates across the southeastern United States. This could be due either to higher rainfall intensities leading to infiltration excess overland flow or to slow drainage of already wet soils leading to saturation excess overland flow. Further, the strength of these relationships is greater at developed locations than undeveloped locations, implying that naturally vegetated locations are less sensitive to increasing rainfall rates. Dunne et al. (1991) have attributed decreasing infiltration rates during storms to the

development of surface seals on certain types of bare soils. Another possible explanation of this result is that lower infiltration capacities of compacted urban and agricultural soils lead to a greater magnitude and earlier onset of runoff, thus reducing recharge.

The relationship between MAG and RPR also illustrates the potential impact of landscape alteration on infiltration processes in humid climates. A negative relationship between MAG and RPR indicates that saturation excess overland flow is an important constraint on episodic recharge. Furthermore, our finding that MAG is a powerful constraint on RPR at the developed locations, but generally irrelevant at the undeveloped locations suggests that anthropogenic alteration of the landscape has decreased the natural storage capacity of soils. This may be due to a variety of factors associated with landscape disturbance and vegetation removal, including the compaction of shallow subsurface clays, reduction of macropore and soil structures, and the loss of relatively porous topsoil.

The positive relationship between DUR and RPR is evident across North Carolina. The higher fractional recharge resulting from longer duration storms may be attributed to: 1) hydraulic conductivities of soils increasing with increasing soil moisture content, allowing enhanced drainage when rainfall intensities are sufficiently low; 2) enhancement of macropore flow under near-saturated conditions; and 3) the filling of interception and antecedent soil moisture stores before significant recharge can occur. However, the influence of storm duration is notably weaker or negligible at the more developed locations, which can be attributed to both the decrease in macropores in compacted urban and disturbed agricultural soils, and the decrease in vegetative cover (and therefore interception capacity) at developed locations.

The lack of strong relationships between RPR and DEP is a somewhat curious result of this study. Crosbie (2003) showed that RPR is influenced by depth to water table in shallow

aquifers in Minnesota, where RPR is minimized at very shallow depths (< 1 meter) likely due to a reduction in available storage and decreases with increasing depth thereafter partly due to the attenuation of the recharge signal by the unsaturated zone. The long-term average impact of DEP on RPR may be somewhat obscured at the locations used in this study due to the strong influence of seasonality on RPR, with RPR being much higher in the winter (when the water table is relatively high) and much lower in the summer (when the water table is relatively low).

While the actual values of RPR and RECH used in this analysis are poorly constrained due to the absence of accurate estimations of S_y , it is interesting to note the character of the relationship between them. Though RPR is not the primary constraint on RECH, the relationship is universally positive and generally greater than one-to-one, with an incremental increase in RPR tending to lead to a disproportionate increase in RECH. Therefore, the long-term average decrease in RPR predicted by this analysis may substantially underestimate long-term average decrease in actual recharge in North Carolina.

Our analysis clearly shows the somewhat expected result that RPR in North Carolina is greater in the winter than in the summer, but we also show that recharge is more sensitive to storm characteristics during the summer than during the winter. In the summer, fractional recharge likely decreases due to increased canopy interception and higher rates of evapotranspiration. The diminishing influence of seasonality on RPR along the Coastal Plain can most likely be attributed to 1) the less drastic variations in seasonal temperature and vegetation in coastal environments and 2) the fact that the greatest fraction of forest cover in the vicinity of each location selected for this study on the Coastal Plain is pine, as opposed to mixed deciduous forests (NLCD, 2011). The increased sensitivity of RPR to storm characteristics during the summer across all sites is partly a result of the increased variability in antecedent conditions,

such as interception storage and rates of evapotranspiration. Also, since summer storms that generate recharge (e.g., hurricanes) tend to be slightly larger and substantially more intense than winter storms, the relative impact of the various storm characteristics may be heightened during the summer.

3.4 Contradictions, Limitations, and Future Considerations

Our results demonstrate that large, short, high intensity storms tend to generate the lowest relative RPR, which is contrary to some previous findings that have shown a positive relationship between RPR and large, powerful storms (e.g., Crosbie et al., 2012). This apparent contradiction is related to three important factors influencing episodic recharge. First, North Carolina is considerably more humid than the location of many previous studies (e.g., Crosbie et al., 2012; Kendy et al., 2003, 2004). In arid climates, significant recharge may only occur after large storms have filled relatively high antecedent soil moisture deficits, while in humid climates with relatively shallow water tables low soil moisture is rarely a limiting factor. Second, because the intensity and magnitude of more extreme storm events are expected to increase most in a warming climate (Min et al., 2011), we have limited the scope of our study to storms large enough and intense enough to actually generate significant, observable episodic recharge. Therefore, by excluding storms below this threshold we have potentially eliminated from our analysis the storm sizes and intensities for which fractional recharge might be expected to increase. Finally, whereas many previous studies (e.g., Taylor and Howard, 1996) have assessed the impact of daily (or monthly) precipitation totals on net recharge, this study analyzes the characteristics of individual storms using hourly precipitation and water-table response data. Thus, what we may consider to be several small storms over a period of weeks may have been defined as a single large event by other studies.

Of course our study is not without assumptions and uncertainty. In particular, diffuse recharge, which is not captured by the EMR method, is also important for water resources and groundwater levels. It is likely that climate and land-use change will also subtly influence the complex factors governing this constant rate component of recharge, particularly through increased potential evapotranspiration. However, since there is strong evidence that climate change will influence the size, severity, and frequency of extreme storm events (Kirtman et al., 2013), and little is known about how this will impact recharge, we have focused on quantifying those potential impacts first. The distance between the wells and precipitation gauges used in this study is another potential source of uncertainty. We mitigated this uncertainty by limiting our study to locations with exceptionally long periods of record, thereby allowing us to identify statistically significant relationships from a large number of unique events. We suspect that future studies using more precisely collocated wells and precipitation gauges may see stronger (but qualitatively similar) relationships between RPR and storm characteristics. Further, though this is the largest high-resolution study of its kind to date, ten locations remains a relatively small sample size, and hourly precipitation data may be of too coarse a resolution to adequately represent INT. We have confined this initial study to North Carolina to evaluate only subtropical climates in the southeastern United States where appropriate data was available. We encourage researchers with access to long-term, high-resolution water-level and precipitation records at other locations to explore the potential utility of the EMR method for understanding how storm characteristics and other factors may influence RPR across different climates and geographic regions. Finally, future studies using finer resolution precipitation data and robust estimates of specific yield may provide more quantitatively accurate estimates of how INT impacts recharge rates, which can be used to directly inform land and water-resources management decisions.

3.5 Implications for Water Resources

Our results suggest that lengthening summer growing seasons and an increase in the frequency and intensity of large storms in the coming century may lead to a decline in RPR and thus in groundwater availability across the American southeast absent increases in precipitation. Recent studies show little evidence for large precipitation increases in North Carolina (Sobolowski and Pavelsky, 2012). This result calls into question the foundation of the sustainable yield concept underpinning many municipal development policies, since such methods use static average annual recharge rates to estimate sustainable withdrawals from shallow aquifers (e.g., Sophocleous, 2000). Furthermore, since stream baseflow is dependent on groundwater, lower groundwater levels may also damage or destroy fragile riparian ecosystems (Brunke and Gonser, 1997). Whether the problem of declining groundwater recharge is ameliorated or exacerbated may hinge on future land-use policy. One potentially positive outlook of our findings is that declining recharge in Appalachia may actually decrease the potential for natural hazards such as landslides.

The relations developed in this paper demonstrate that storm characteristics constrain long-term average RPR values to a degree that is both statistically significant and quantifiable. In the absence of more complicated analytical methods, these relations may serve as an empirical control on groundwater response to precipitation in future modeling efforts. The relative simplicity of our approach highlights the substantial value of continuous, long-term, high-resolution groundwater monitoring conducted by the USGS and other agencies worldwide. Analysis of similar datasets in different locations could also show whether these relationships are particular to humid, subtropical environments in the American southeast, or are more generally applicable outside of climates like that of North Carolina. The impact of magnitude and intensity

of precipitation on recharge deserves particular attention since 1) these characteristics play an outsized role in governing RPR in developed environments and 2) they are likely to increase substantially as the global climate continues to change.

3.6 Summary and Conclusions

We investigated empirical relations between storm characteristics and the ratio of precipitation that contributes to recharge (RPR). We examined water-level records from 56 individual USGS monitoring wells across North Carolina, USA, and were able to use long-term precipitation and water-table fluctuations at ten of these locations, which included 3,544 storm events that generated episodic recharge. At all sites, average RPR values increased with storm duration and decreased with storm magnitude, average rate, and weighted hourly intensity. The negative constraints on RPR were magnified both at developed locations and during the summer. At all locations, RPR also tended to be lower in the summer than in the winter, though this effect was smaller on the Coastal Plain region. Climate models predict an increase in the size and intensity of the largest storms and a lengthening of the growing season over the coming century. In the absence of other influences, our results suggest that groundwater recharge is likely to decrease across North Carolina, especially in urban environments, agricultural areas, Appalachia, and the Piedmont.

APPENDIX A

ALL RECHARGE EVENTS: RAW EMR OUTPUT

A1					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	4.118274	0.00082	0.023114	0.005439	0.048768
2	5.183138	0.007013	0.021082	0.00422	0.085344
3	6.536854	0.003691	0.046736	0.00701	0.118872
4	4.440243	0.004589	0.04445	0.009704	0.155448
5	7.255583	0.001772	0.022098	0.00298	0.112776
6	7.626181	0.002965	0.028702	0.003703	0.088392
7	7.254526	0.004587	0.051816	0.007026	0.149352
8	4.479355	0.001433	0.01778	0.003844	0.12192
9	4.144915	0.000673	0.003556	0.000829	0.021336
10	6.33654	0.001927	0.010922	0.001691	0.036576
11	6.749275	0.003555	0.061937	0.009143	0.146304
12	5.106777	0.003218	0.021844	0.004161	0.188976
13	5.497164	0.001034	0.012192	0.002167	0.064008
14	4.264108	0.000816	0.029464	0.006671	0.18288
15	3.383858	0.00066	0.072552	0.020674	0.377952
16	10.22517	0.002907	0.071882	0.006928	0.164592
17	11.20855	0.003325	0.05461	0.004819	0.09144
18	6.176571	0.004263	0.051308	0.008155	0.134112
19	10.8215	0.004323	0.031508	0.00301	0.100584
20	10.66405	0.011866	0.089408	0.008285	0.231648
21	3.667665	0.004401	0.033528	0.008843	0.073152
22	4.158003	0.00162	0.027702	0.006589	0.064008
23	5.192012	0.005448	0.048006	0.009001	0.100584
24	6.448125	0.004352	0.045466	0.006961	0.09144
25	4.774413	0.001363	0.013462	0.002738	0.064008
26	4.435281	0.000816	0.007112	0.001552	0.073152
27	11.65667	0.003282	0.0508	0.004367	0.112776
28	5.178711	0.013547	0.099314	0.018768	0.219456
29	4.270345	0.00103	0.020574	0.004658	0.0762
30	9.00891	0.002685	0.038862	0.0043	0.115824
31	5.679329	0.001555	0.034036	0.005849	0.0762
32	4.571359	0.001946	0.043942	0.009433	0.27432
33	7.032048	0.002285	0.010668	0.001489	0.051816
34	4.507116	0.000584	0.116078	0.025201	0.826008
35	5.311685	0.001138	0.030734	0.005674	0.118872
36	4.463245	0.000733	0.032258	0.007038	0.1524

37	13.02558	0.01023	0.021336	0.001626	0.088392
38	11.60013	0.010038	0.154178	0.013122	0.219456
39	2.481622	0.000472	0.001524	0.000581	0.018288
40	3.474464	0.000615	0.012446	0.003473	0.085344
41	6.714931	0.001951	0.038608	0.00565	0.316992
42	7.500084	0.002455	0.028194	0.003677	0.097536
43	6.794873	0.001904	0.011684	0.001689	0.04572
44	9.857104	0.004535	0.037592	0.003759	0.109728
45	6.875285	0.001766	0.017018	0.002431	0.067056
46	7.189571	0.009696	0.052832	0.007204	0.170688
47	4.588648	0.000873	0.011684	0.00246	0.036576
48	7.297338	0.001288	0.008128	0.00109	0.018288
49	8.634852	0.001644	0.01524	0.001733	0.042672
50	4.163371	0.000706	0.01016	0.002367	0.10668
51	7.12885	0.003189	0.029972	0.004134	0.097536
52	5.29455	0.002478	0.039624	0.007315	0.176784
53	7.894387	0.001367	0.011684	0.001453	0.039624
54	5.324219	0.001308	0.044196	0.00843	0.195072
55	10.61133	0.002701	0.056896	0.005293	0.204216
56	6.144118	0.001423	0.019304	0.003089	0.067056
57	8.697799	0.002606	0.060198	0.006815	0.210312
58	6.782134	0.001627	0.019304	0.002791	0.085344
59	15.08152	0.0059	0.065532	0.004309	0.094488
60	12.06462	0.005763	0.031958	0.002744	0.082296
61	9.577023	0.004073	0.035052	0.003611	0.057912
62	3.850175	0.000803	0.005361	0.001601	0.03048
63	9.612523	0.00626	0.051562	0.005288	0.09144
64	3.9863	0.004495	0.051562	0.0129	0.082296
65	4.568006	0.003526	0.023368	0.005124	0.057912
66	6.901083	0.003747	0.04191	0.006268	0.109728
67	8.179303	0.003136	0.042164	0.005121	0.195072
68	10.95547	0.007212	0.111252	0.010038	0.490728
69	9.480095	0.005429	0.081026	0.008455	0.225552
70	4.710159	0.011493	0.077568	0.016207	0.27432
71	4.732823	0.005742	0.087122	0.01772	0.481584
72	2.258626	6.45E-05	0.018542	0.009587	0.158496
73	4.461897	0.008742	0.047244	0.010308	0.12192
74	4.300956	0.001158	0.025146	0.005693	0.112776
75	4.28369	0.00367	0.066548	0.015067	0.707136
76	7.144272	0.001238	0.065786	0.009074	0.597408
77	5.642091	0.001495	0.013857	0.00243	0.067056
78	3.622649	0.000397	0.013716	0.003658	0.04572
79	5.534222	0.002412	0.00581	0.001081	0.048768

80	7.926414	0.003775	0.089916	0.011138	0.240792
81	5.25711	0.012974	0.089408	0.016716	0.094488
82	4.996644	0.00186	0.055372	0.010804	0.179832
83	4.46644	0.000852	0.017526	0.003844	0.158496
84	5.266657	0.008343	0.05842	0.010869	0.332232
85	3.382456	0.001227	0.028956	0.008295	0.094488
86	8.157567	0.003627	0.062738	0.007566	0.097536
87	13.03924	0.004594	0.0508	0.003858	0.100584
88	9.688693	0.00335	0.04064	0.004133	0.112776
89	3.635361	0.000849	0.01143	0.002982	0.04572
90	4.18232	0.001947	0.039878	0.009205	0.185928
91	4.100757	0.00343	0.044196	0.010399	0.192024
92	4.043122	0.009788	0.085344	0.020483	0.377952
93	3.166999	0.000713	0.019558	0.005942	0.0762
94	3.649685	0.001374	0.025654	0.006766	0.094488
95	4.385811	0.008649	0.10922	0.024271	0.188976
96	3.112865	0.000338	0.010668	0.003282	0.100584
97	4.737116	0.000787	0.023114	0.004782	0.13716
98	3.930181	0.003303	0.033782	0.008358	0.323088
99	3.68245	0.001564	0.032766	0.008548	0.082296
100	4.607291	0.00071	0.046736	0.009839	0.192024
101	10.96781	0.002825	0.094742	0.008516	0.277368
102	3.557758	0.000416	0.014224	0.003793	0.146304
103	8.492175	0.001899	0.018796	0.002203	0.064008
104	6.252778	0.00193	0.141478	0.022193	1.118616
105	5.936653	0.002605	0.035306	0.005804	0.21336
106	9.573129	0.007216	0.106426	0.01101	0.201168
107	4.026091	0.003013	0.042164	0.010019	0.207264
108	3.847619	0.002896	0.046736	0.01204	0.100584
109	7.123461	0.002571	0.031242	0.004309	0.176784
110	6.520943	0.00152	0.012446	0.001879	0.057912
111	8.735752	0.006821	0.077724	0.008799	0.374904
112	5.801352	0.005191	0.04699	0.007922	0.082296
113	3.801366	0.00219	0.022352	0.005647	0.124968
114	12.23711	0.003638	0.035052	0.002832	0.070104
115	6.513561	0.002403	0.032258	0.004869	0.12192
116	5.783554	0.001389	0.008382	0.001417	0.03048
117	5.351399	0.012832	0.100838	0.018474	0.283464
118	2.899584	0.000334	0.01778	0.006149	0.079248
119	5.145628	0.001447	0.019812	0.003744	0.036576
120	3.674792	0.001443	0.061976	0.016021	0.176784
121	5.39534	0.001046	0.033528	0.006217	0.143256
122	5.35338	0.00552	0.007874	0.001443	0.070104

123	4.118623	0.000794	0.020828	0.004949	0.18288
124	3.092902	0.000535	0.00889	0.002771	0.039624
125	5.553801	0.001265	0.107696	0.018835	0.588264
126	4.072252	0.00066	0.016002	0.003802	0.10668
127	8.116277	0.002778	0.091186	0.011077	0.286512
128	8.459257	0.002181	0.033528	0.003918	0.064008
129	6.346285	0.002861	0.034544	0.00536	0.170688
130	4.617728	0.000913	0.001778	0.000378	0.012192
131	7.384477	0.002473	0.018542	0.002472	0.073152
132	6.732556	0.005838	0.05842	0.008554	0.204216
133	5.576423	0.010001	0.109474	0.019178	0.268224
134	12.33804	0.003403	0.047498	0.003813	0.146304
135	4.275153	0.00097	0.017018	0.004006	0.13716
136	6.675134	0.002949	0.032766	0.004824	0.18288
137	5.060613	0.001109	0.017272	0.003316	0.051816
138	7.473261	0.007677	0.075184	0.00986	0.118872
139	4.36428	0.00436	0.04318	0.009596	0.18288
140	3.854328	0.001686	0.020828	0.005153	0.10668
141	5.698764	0.00107	0.018288	0.003135	0.134112
142	6.10585	0.003427	0.071882	0.011501	0.283464
143	6.307149	0.004708	0.097028	0.015024	0.118872
144	5.36332	0.002289	0.033782	0.006142	0.231648
145	5.283022	0.001581	0.017526	0.003275	0.027432
146	4.53824	0.002658	0.051308	0.010897	0.271272
147	5.562005	0.005691	0.06477	0.011386	0.201168
148	5.981343	0.001363	0.040132	0.006552	0.204216
149	15.08322	0.008566	0.128778	0.008444	0.158496
150	3.45963	0.001251	0.025146	0.006937	0.12192
151	5.349496	0.005385	0.034798	0.006375	0.271272
152	5.040157	0.001024	0.03302	0.006391	0.115824
153	6.24605	0.004699	0.056388	0.008788	0.146304
154	3.585481	0.000818	0.014478	0.003861	0.079248
155	9.359631	0.006758	0.09398	0.009893	0.216408
156	4.501168	0.002037	0.02794	0.006041	0.124968
157	7.760639	0.011843	0.094996	0.012067	0.128016
158	2.940251	0.00032	0.013716	0.004448	0.073152
159	5.50743	0.007432	0.046736	0.008309	0.097536
160	5.00074	0.000901	0.021336	0.004163	0.100584
161	3.484263	0.000647	0.016002	0.004364	0.134112
162	8.484545	0.00179	0.032004	0.003711	0.0762
163	3.649135	0.000131	0.037405	0.010199	0.149352
164	10.95348	0.010026	0.05162	0.004678	0.158496
165	3.330348	0.002207	0.035306	0.010301	0.103632

166	3.413182	0.000817	0.022606	0.006539	0.073152
167	3.654198	0.002972	0.037084	0.00978	0.170688
168	4.423015	0.002272	0.049276	0.01085	0.332232
169	3.508817	0.001358	0.006604	0.001801	0.04572
170	6.929429	0.003269	0.01651	0.002345	0.140208
171	4.274754	0.00094	0.026924	0.006096	0.0762
172	7.014846	0.001729	0.009398	0.001304	0.048768
173	6.633661	0.003643	0.062484	0.009257	0.158496
174	6.285738	0.00346	0.042926	0.006647	0.21336
175	11.90067	0.004422	0.027686	0.002299	0.048768
176	5.905773	0.002999	0.029464	0.004877	0.124968
177	4.116685	0.001899	0.02921	0.006806	0.112776
178	4.028788	0.005964	0.04064	0.009912	0.170688
179	4.883857	0.003657	0.042672	0.008534	0.12192
180	4.264217	0.009201	0.086614	0.019797	0.256032
181	4.122854	0.002444	0.03175	0.007554	0.06096
182	6.215585	0.012127	0.141224	0.02238	0.222504
183	6.917943	0.005335	0.061976	0.008801	0.24384
184	3.207631	0.000451	0.018288	0.005486	0.0762
185	7.181889	0.004217	0.09144	0.01254	0.673608
186	4.311756	0.00183	0.009144	0.00207	0.051816
187	3.592877	0.00073	0.005588	0.00149	0.027432
188	5.44332	0.00515	0.042926	0.007688	0.374904
189	3.525332	0.001039	0.049784	0.013734	0.25908
190	5.206799	0.019017	0.131572	0.024675	0.268224
191	4.57097	0.003457	0.037084	0.007876	0.268224
192	5.6613	0.001524	0.024384	0.00421	0.143256
193	8.2125	0.007789	0.060706	0.007248	0.097536
194	3.983593	0.0009	0.018542	0.004495	0.115824
195	6.335109	0.001944	0.023876	0.003697	0.16764
196	5.254077	0.00218	0.031242	0.005768	0.082296
197	4.312613	0.003156	0.051816	0.011732	0.188976
198	3.84798	0.000651	0.007366	0.001842	0.027432
199	6.142293	0.002428	0.038354	0.006096	0.268224
200	5.861059	0.010353	0.12446	0.020744	0.393192
201	5.708556	0.007135	0.048026	0.008275	0.143256
202	5.0253	0.002383	0.021336	0.00413	0.033528
203	6.279024	0.004132	0.03937	0.006155	0.231648
204	4.16789	0.000585	0.020574	0.004748	0.088392
205	5.68976	0.001312	0.059182	0.010145	0.445008
206	10.53139	0.008695	0.100076	0.009419	0.252984
207	12.65329	0.004127	0.09271	0.007248	0.234696
208	4.769324	0.002187	0.01905	0.003875	0.118872

209	5.077976	0.002019	0.017272	0.003316	0.204216
210	8.13297	0.003238	0.011938	0.001454	0.051816
211	5.848848	0.012576	0.137414	0.022902	0.204216
212	5.953562	0.012165	0.146558	0.024092	0.323088
213	3.881505	0.001207	0.024638	0.006255	0.115824
214	9.610266	0.003347	0.043688	0.0045	0.109728
215	3.841861	0.003944	0.037592	0.009497	0.19812
216	5.540682	0.001194	0.02159	0.00381	0.176784
217	6.210983	0.001587	0.013716	0.002166	0.09144
218	3.608596	0.000608	0.007112	0.001897	0.036576
219	3.573874	0.00058	0.018729	0.005046	0.051816
220	6.756929	0.009136	0.05842	0.008497	0.316992
221	8.549775	0.004772	0.088646	0.010309	0.207264
222	3.47537	0.000694	0.012954	0.003616	0.0762
223	5.897622	0.002101	0.0254	0.004204	0.09144
224	4.708808	0.000803	0.019812	0.004099	0.12192
225	8.470935	0.002353	0.032766	0.003817	0.088392
226	5.798235	0.001514	0.014986	0.002678	0.118872
227	6.795507	0.004647	0.035814	0.005178	0.124968
228	5.38912	0.002234	0.002286	0.000416	0.027432
229	6.919132	0.001926	0.05461	0.007755	0.28956
230	30.21374	0.013059	0.18542	0.006113	0.384048
231	4.504587	0.00896	0.04064	0.008787	0.246888
232	4.944975	0.005356	0.04953	0.009744	0.252984
233	6.72327	0.002994	0.048768	0.007137	0.28956
234	7.452854	0.011887	0.088138	0.011623	0.161544
235	6.232286	0.002322	0.033074	0.005228	0.131064
236	4.928132	0.001311	0.019558	0.003879	0.143256
237	9.175662	0.003778	0.050038	0.005385	0.134112
238	4.323761	0.002929	0.032258	0.007235	0.09144
239	5.525131	0.002441	0.02413	0.004429	0.054864
240	3.830087	0.001227	0.016764	0.004235	0.12192
241	5.916734	0.004749	0.062992	0.010426	0.16764
242	3.874139	0.003922	0.04699	0.011747	0.131064
243	3.785811	0.001741	0.04445	0.011349	0.170688
244	4.632463	0.000789	0.040132	0.008449	0.170688
245	5.164343	0.002684	0.038354	0.007191	0.201168
246	3.646204	0.001407	0.029464	0.007771	0.128016
247	8.317617	0.003819	0.07239	0.008589	0.225552
248	4.443841	0.001274	0.048514	0.010585	0.225552
249	3.723149	0.000659	0.03556	0.009792	0.185928
250	5.167709	0.001053	0.01778	0.00336	0.094488
251	10.28491	0.004015	0.089423	0.008611	0.185928

252	6.930678	0.006395	0.087122	0.012372	0.249936
253	4.900262	0.00109	0.006681	0.001378	0.054864
254	9.751189	0.004652	0.053848	0.005466	0.10668
255	9.48533	0.00974	0.125476	0.013056	0.374904
256	4.162697	0.00327	0.046482	0.011051	0.085344
257	3.900453	0.002346	0.029955	0.007493	0.112776
258	4.621047	0.001558	0.044704	0.009654	0.170688
259	4.322711	0.009599	0.055118	0.012363	0.085344
260	4.36619	0.007938	0.069596	0.01561	0.131064
261	2.52069	-0.00025	0.011176	0.004191	0.06096
262	2.276464	6.92E-05	0.011938	0.005337	0.067056
263	4.357033	0.005293	0.04572	0.01016	0.185928
264	4.823977	0.002073	0.04318	0.008882	0.103632
265	3.735851	0.000601	0.02405	0.006305	0.09144
266	3.486936	0.000526	0.017272	0.00482	0.16764
267	5.798774	0.008106	0.112014	0.018932	0.41148
268	3.523256	0.001238	0.030115	0.008675	0.097536
269	3.436131	0.000767	0.03302	0.009599	0.085344
270	3.220178	0.000387	0.01524	0.004572	0.082296
271	4.058206	0.000596	0.035814	0.00851	0.210312
272	3.720098	0.000519	0.010668	0.002753	0.057912
273	6.636453	0.001632	0.027178	0.004026	0.128016
274	4.979729	0.001095	0.026162	0.005105	0.283464
275	9.672039	0.00415	0.045212	0.004617	0.161544
276	12.63968	0.003761	0.055626	0.004363	0.109728
277	11.48485	0.003782	0.042418	0.003649	0.155448
278	7.75681	0.002775	0.019812	0.002675	0.064008
279	5.68956	0.004012	0.050292	0.008684	0.204216
280	8.588424	0.002983	0.034798	0.003996	0.109728
281	3.737259	0.00296	0.054102	0.013968	0.170688
282	6.822939	0.003004	0.03937	0.005658	0.073152
283	7.47568	0.002329	0.022098	0.002914	0.064008
284	9.868646	0.006136	0.044704	0.00447	0.094488
285	13.11711	0.004364	0.054867	0.00416	0.0762
286	5.240912	0.001263	0.03556	0.006616	0.143256
287	8.622652	0.002898	0.062484	0.007342	0.109728
288	7.289545	0.002938	0.027432	0.003763	0.0762
289	3.850175	0.000712	0.076454	0.019113	0.569976
290	21.81862	0.006544	0.116332	0.005298	0.1524
291	6.50853	0.001579	0.021336	0.0032	0.082296
292	7.618077	0.001897	0.032512	0.004195	0.115824
293	6.978123	0.004832	0.047752	0.006702	0.149352
294	7.269839	0.003725	0.03683	0.004994	0.112776

295	7.586089	0.00372	0.038862	0.005042	0.134112
296	10.39932	0.006108	0.043688	0.004161	0.18288
297	14.14496	0.011129	0.093218	0.006523	0.19812
298	5.446026	0.005676	0.05588	0.010008	0.222504
299	5.913857	0.001689	0.03302	0.005465	0.0762
300	4.696955	0.001807	0.001524	0.000315	0.018288
301	5.600515	0.001086	0.011684	0.002047	0.067056
302	5.009285	0.001039	0.024618	0.005125	0.103632
303	7.358465	0.002064	0.04318	0.005757	0.13716
304	7.156471	0.004517	0.035814	0.004894	0.085344
305	7.095965	0.001713	0.059944	0.008316	0.256032
306	8.715696	0.003768	0.062484	0.007116	0.146304
307	7.879904	0.00362	0.032004	0.004001	0.088392
308	7.498259	0.005336	0.054854	0.007263	0.085344
309	7.561816	0.005087	0.043688	0.005698	0.097536
310	8.21823	0.002847	0.02413	0.002896	0.1524
311	6.657438	0.003708	0.036689	0.005395	0.12192
312	12.91335	0.006675	0.074168	0.005687	0.13716
313	4.546776	0.002999	0.037592	0.008055	0.124968
314	13.25554	0.005821	0.051816	0.003874	0.13716
315	4.560105	0.000929	0.018034	0.00383	0.179832
316	15.69908	0.004729	0.084836	0.005344	0.249936
317	8.446357	0.002578	0.005842	0.000677	0.033528
318	13.34901	0.005411	0.053594	0.00397	0.149352
319	7.341665	0.003494	0.033274	0.004461	0.094488
320	6.325241	0.001394	0.010922	0.001742	0.054864
321	9.431403	0.002411	0.035814	0.003767	0.103632
322	13.59432	0.004967	0.054864	0.004003	0.128016
323	5.063648	0.001171	0.02032	0.003901	0.124968
324	10.36148	0.007016	0.068072	0.006483	0.112776
325	7.094144	0.00201	0.02794	0.003876	0.067056
326	8.401016	0.002554	0.02159	0.00254	0.097536
327	14.25172	0.004473	0.053848	0.003746	0.079248
328	5.753582	0.001201	0.020066	0.003415	0.088392
329	7.039905	0.00213	0.026162	0.003651	0.085344
330	6.91087	0.002468	0.054102	0.007683	0.13716
331	4.691929	0.000891	0.005842	0.001209	0.012192
332	6.995206	0.005658	0.122682	0.017219	0.573024
333	3.910236	0.000778	0.023876	0.00597	0.118872
334	4.473355	0.000944	0.011863	0.00266	0.094488
335	5.677411	0.00134	0.01905	0.003269	0.09144
336	17.63893	0.008922	0.137414	0.007742	0.146304
337	7.865568	0.003716	0.054864	0.006858	0.12192

338	18.23795	0.007556	0.065278	0.003561	0.094488
339	4.408441	0.003249	0.048006	0.01057	0.161544
340	13.37696	0.006753	0.076962	0.005701	0.134112
341	4.311513	0.002531	0.030988	0.007016	0.185928
342	3.897586	0.003829	0.04826	0.011941	0.252984
343	15.41931	0.010629	0.089154	0.005738	0.256032
344	5.538397	0.002402	0.027686	0.004886	0.118872
345	8.095513	0.007495	0.066548	0.008066	0.097536
346	7.239858	0.006437	0.087122	0.01188	0.21336
347	5.122647	0.008303	0.107442	0.020465	0.19812
348	9.033525	0.003079	0.055118	0.006013	0.12192
349	4.170562	0.002471	0.049784	0.0116	0.112776
350	4.167109	0.000433	0.045466	0.010764	0.134112
351	4.916096	0.005494	0.059436	0.011789	0.313944
352	4.77362	0.000967	0.024638	0.005139	0.173736
353	9.165748	0.003421	0.110236	0.011864	0.27432
354	4.208863	0.000989	0.001524	0.000352	0.006096
355	3.713619	0.000718	0.024638	0.00646	0.262128
356	4.554155	0.001407	0.00508	0.001079	0.06096
357	6.125711	0.001084	0.048768	0.007803	0.21336
358	5.481976	0.004284	0.053848	0.009573	0.371856
359	8.107119	0.001679	0.021082	0.002555	0.088392
360	6.859014	0.003073	0.03556	0.00508	0.112776
361	6.111713	0.001996	0.02667	0.004267	0.118872
362	5.502529	0.005882	0.057404	0.010205	0.170688
363	4.746364	0.000965	0.00889	0.001893	0.04572
364	13.6592	0.004612	0.049022	0.003544	0.064008
365	8.21491	0.008892	0.080518	0.009662	0.149352
366	6.554846	0.003964	0.050038	0.007506	0.13716
367	3.794073	0.000719	0.023876	0.006096	0.103632
368	6.413369	0.001741	0.022098	0.003388	0.115824
369	3.025966	0.000475	0.000508	0.000203	0.003048
370	13.78182	0.004603	0.120142	0.008633	0.231648
371	4.402377	0.000596	0.010414	0.002306	0.042672
372	10.09033	0.003244	0.06858	0.00673	0.27432
373	4.827966	0.000925	0.028956	0.00584	0.201168
374	10.40375	0.006048	0.006096	0.000578	0.036576
375	8.301473	0.00519	0.073152	0.008649	0.131064
376	3.872605	0.020246	0.118872	0.029581	0.173736
377	3.851855	0.0137	0.110744	0.027987	0.47244
378	3.38148	0.003027	0.065024	0.018578	0.210312
379	5.599097	0.002241	0.04826	0.008393	0.158496
380	4.689354	0.001562	0.031496	0.006516	0.149352

381	6.019765	0.002193	0.033782	0.005515	0.09144
382	4.510444	0.000805	0.018796	0.004064	0.085344
383	6.892806	0.003072	0.043688	0.006183	0.179832
384	5.331841	0.003218	0.030988	0.005677	0.0762
385	6.545303	0.001921	0.033782	0.005036	0.231648
386	9.513183	0.002263	0.02413	0.002507	0.048768
387	11.97035	0.002897	0.045466	0.003763	0.0762
388	5.523196	0.001282	0.014224	0.00251	0.039624
389	10.07916	0.005522	0.060198	0.005873	0.13716
390	10.74872	0.003213	0.041656	0.00383	0.109728
391	7.5096	0.003398	0.032258	0.004208	0.070104
392	7.735451	0.005441	0.075438	0.009579	0.149352
393	14.05521	0.007227	0.188468	0.013304	0.420624
394	4.593989	0.003914	0.081788	0.017959	0.48768
395	3.985111	0.002717	0.022098	0.005412	0.103632
396	4.575084	0.001237	0.0635	0.013487	0.164592
397	5.273381	0.00116	0.018542	0.00345	0.067056
398	5.207297	0.002969	0.04064	0.00762	0.252984
399	8.008698	0.002402	0.03048	0.003751	0.088392
400	12.00177	0.004014	0.059182	0.004881	0.195072
401	5.93826	0.004931	0.031496	0.005177	0.057912
402	3.336081	0.001649	0.018796	0.005815	0.039624
403	4.209769	0.001272	0.019304	0.004455	0.0762
404	4.530589	0.002828	0.037592	0.008055	0.118872
405	6.62849	0.001661	0.01778	0.002634	0.143256
406	9.903377	0.004984	0.05461	0.005438	0.158496
407	4.105479	0.000605	0.011938	0.002782	0.042672
408	6.130695	0.003158	0.053086	0.008494	0.435864
409	4.06682	0.00075	0.014478	0.003475	0.048768
410	7.288755	0.003759	0.076708	0.010607	0.353568
411	5.92572	0.001506	0.091186	0.015093	0.24384
412	7.30659	0.002726	0.022606	0.003048	0.10668
413	8.287515	0.003174	0.109474	0.013007	0.637032
414	10.49798	0.006095	0.134366	0.012646	0.390144
415	4.453485	0.000849	0.019558	0.004267	0.057912
416	4.205184	0.000866	0.003968	0.000938	0.039624
417	8.531695	0.005473	0.043942	0.00507	0.109728
418	5.459148	0.002216	0.020828	0.00373	0.082296
419	6.79382	0.001573	0.045723	0.006944	0.143828
420	5.807848	0.005186	0.049022	0.008227	0.143256
421	6.93797	0.002508	0.018288	0.002595	0.04572
422	8.711866	0.006826	0.062992	0.007131	0.109728
423	3.792297	0.010876	0.049784	0.012776	0.188976

424	6.856793	0.004136	0.075946	0.010785	0.262128
425	9.290994	0.007253	0.081534	0.008658	0.16764
426	6.02647	0.001654	0.042418	0.006925	0.134112
427	5.383038	0.001105	0.028387	0.005284	0.085344
428	9.117499	0.004631	0.014986	0.00162	0.079248
429	5.962398	0.001695	0.052832	0.008685	0.408432
430	4.105061	0.000757	0.000508	0.000121	0.006096
431	7.099039	0.001927	0.08636	0.011912	0.3048
432	3.975394	0.000826	0.023114	0.005631	0.067056
433	10.60712	0.003249	0.03937	0.003677	0.16764
434	6.733596	0.001649	0.013208	0.001921	0.048768
435	18.51716	0.009252	0.100076	0.005361	0.118872
436	6.185326	0.001765	0.02667	0.004277	0.128016
437	6.289707	0.001113	0.017272	0.002677	0.051816
438	5.48551	0.004872	0.0508	0.009099	0.134112
439	3.29231	0.000461	0.007874	0.002493	0.04572
440	6.595895	0.003118	0.032512	0.004847	0.204216
441	8.561406	0.006869	0.060706	0.006971	0.16764
442	6.764436	0.003086	0.04572	0.00661	0.161544
443	6.901694	0.002415	0.036322	0.005222	0.103632
444	8.841055	0.003698	0.138176	0.015424	0.4572
445	4.183727	0.000984	0.026924	0.006213	0.085344
446	7.289957	0.00467	0.082042	0.011062	0.286512
447	5.043471	0.001045	0.018288	0.003533	0.04572
448	4.036368	0.000745	0.006604	0.001611	0.039624
449	6.002986	0.006327	0.05588	0.009123	0.109728
450	10.89805	0.002996	0.010922	0.000989	0.064008
451	8.353223	0.00349	0.034798	0.004074	0.067056
452	7.615018	0.002872	0.032004	0.00413	0.079248
453	7.408916	0.006942	0.056896	0.007544	0.10668
454	7.422808	0.002437	0.040132	0.005475	0.21336
455	4.743784	0.002277	0.023876	0.004856	0.115824
456	6.469482	0.001506	0.039116	0.005942	0.173736
457	5.474574	0.006175	0.107442	0.019101	0.8382
458	5.510052	0.010481	0.04572	0.00862	0.155448
459	4.582799	0.000872	0.016764	0.00356	0.109728
460	3.757792	0.000696	0.013471	0.003507	0.054864
461	5.808508	0.001394	0.02286	0.003899	0.149352
462	9.431476	0.024138	0.156718	0.016353	0.277368
463	3.125696	0.000391	0.022352	0.007192	0.088392
464	6.437336	0.002233	0.025349	0.004333	0.103632
465	8.436084	0.005882	0.0635	0.007434	0.1524
466	3.978097	0.001631	0.025146	0.006296	0.067056

467	4.466361	0.00874	0.10414	0.022517	0.16764
468	3.746425	0.001539	0.012446	0.003431	0.036576
469	4.213878	0.003608	0.052324	0.01196	0.143256
470	4.05905	0.005031	0.050038	0.012009	0.16764
471	2.879773	0.000262	0.0127	0.004215	0.033528
472	4.522405	0.010298	0.06731	0.014424	0.210312
473	3.976875	0.002289	0.042418	0.010283	0.18288
474	2.55871	0.000514	0.009652	0.003596	0.067056
475	3.974404	0.008146	0.085344	0.020901	0.316992
476	2.426507	0.000512	0.013716	0.005403	0.057912
477	4.224811	0.005817	0.052324	0.012075	0.09144
478	4.652504	0.000914	0.045466	0.009489	0.170688
479	4.289288	0.001012	0.027178	0.006154	0.128016
480	4.109581	0.001226	0.019304	0.004542	0.070104
481	4.698196	0.002362	0.03937	0.008216	0.19812
482	3.80311	0.001022	0.03048	0.007782	0.222504
483	2.738775	0.000451	0.009906	0.003446	0.082296
484	7.418355	0.004146	0.034544	0.00458	0.128016
485	4.928253	0.001931	0.015494	0.003128	0.13716
486	7.536833	0.002465	0.012192	0.00159	0.082296
487	6.564634	0.002523	0.027178	0.004051	0.115824
488	7.169649	0.005534	0.022098	0.003013	0.225552
489	3.943703	0.003872	0.026162	0.006473	0.176784
490	8.332063	0.002755	0.080264	0.009489	0.265176
491	6.089767	0.008659	0.072898	0.011742	0.25908
492	4.964758	0.001092	0.01143	0.002258	0.042672
493	5.69683	0.015336	0.120396	0.020739	0.3048
494	7.582513	0.001891	0.012192	0.001582	0.042672
495	4.411882	0.000903	0.001778	0.000391	0.012192
496	6.250481	0.001432	0.020828	0.003246	0.054864
497	8.78303	0.004654	0.049276	0.005501	0.192024
498	8.981165	0.00938	0.085344	0.009353	0.216408
499	3.860929	0.005477	0.046736	0.011684	0.161544
500	7.221736	0.002027	0.037338	0.005092	0.09144
501	4.70868	0.001352	0.027178	0.005575	0.128016
502	4.709454	0.005109	0.047244	0.009775	0.134112
503	2.625914	0.000323	0.00762	0.002771	0.033528
504	3.259795	0.000322	0.01905	0.005644	0.100584
505	3.074524	0.000544	0.010884	0.005542	0.097536
506	3.96705	0.000458	0.007874	0.001934	0.051816
507	9.173039	0.00378	0.060706	0.006533	0.338328
508	5.193914	0.004028	0.018288	0.003429	0.094488
509	4.180105	0.000648	0.014478	0.003374	0.173736

510	4.56226	0.000849	0.009398	0.002014	0.103632
511	7.992125	0.004341	0.048006	0.005908	0.124968
512	7.453133	0.006074	0.046228	0.006096	0.12192
513	8.161824	0.002694	0.026416	0.003202	0.131064
514	6.206447	0.001536	0.027432	0.004331	0.16764
515	17.04793	0.010323	0.106934	0.006229	0.146304
516	4.673561	0.002557	0.046228	0.009847	0.143256
517	5.688627	0.005767	0.0508	0.008771	0.27432
518	3.870716	0.001694	0.023876	0.005907	0.13716
519	6.320515	0.002683	0.047244	0.007315	0.146304
520	10.81176	0.004806	0.042296	0.003974	0.085344
521	3.985171	0.000553	0.012192	0.002956	0.039624
522	5.566661	0.001351	0.024892	0.004393	0.073152
523	3.947397	0.000668	0.011938	0.002963	0.042672
524	6.179437	0.001856	0.015494	0.002446	0.112776
525	7.102117	0.002537	0.044704	0.006202	0.112776
526	6.594078	0.00327	0.054864	0.008178	0.124968
527	3.380859	0.000306	0.013462	0.003846	0.070104
528	6.205989	0.002897	0.054102	0.008542	0.262128
529	8.323846	0.001961	0.004572	0.000541	0.024384
530	9.166045	0.005432	0.064516	0.006943	0.188976
531	11.08964	0.010055	0.06604	0.005892	0.246888
532	6.778072	0.003064	0.019558	0.002845	0.134112
533	6.150278	0.001527	0.026416	0.004227	0.192024
534	6.052896	0.007463	0.112776	0.018165	0.429768
535	5.471436	0.004506	0.082296	0.01474	0.268224
536	14.00752	0.008756	0.098806	0.006975	0.188976
537	10.12728	0.016234	0.136906	0.013357	0.192024
538	4.010818	0.010277	0.072644	0.017461	0.597408
539	3.362356	0.000687	0.011684	0.003999	0.073152
540	7.947147	0.005072	0.058166	0.007196	0.158496
541	5.125017	0.001909	0.025654	0.004886	0.124968
542	3.94183	0.000484	0.020828	0.005124	0.103632
543	4.110309	0.00069	0.015748	0.003705	0.051816
544	5.86869	0.002319	0.036068	0.006011	0.155448
545	5.419122	0.001488	0.022098	0.00417	0.097536
546	5.013321	0.004566	0.070866	0.013716	0.164592
547	4.294603	0.01452	0.103632	0.023464	0.170688
548	3.71932	0.001991	0.028448	0.007421	0.109728
549	3.603284	0.000896	0.019304	0.005207	0.100584
550	3.834145	0.004244	0.138176	0.034544	0.804672
551	3.997029	0.000673	0.014478	0.00351	0.173736
552	4.395046	0.001997	0.03486	0.00874	0.140208

553	2.759087	0.000218	0.038608	0.013237	0.323088
554	5.594393	0.003154	0.044196	0.007742	0.185928
A2					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	3.250219	0.000516	0.023114	0.007062	0.048768
2	4.450197	0.000836	0.023622	0.005154	0.128016
3	4.982894	0.007036	0.049022	0.009565	0.079248
4	1.639537	-2.49E- 05	0.020247	0.011684	0.085344
5	4.573695	0.002865	0.046736	0.009926	0.118872
6	4.144721	0.002379	0.037084	0.008726	0.155448
7	3.54381	0.000557	0.00635	0.001732	0.024384
8	6.761933	0.001739	0.028702	0.004175	0.088392
9	5.037826	0.003329	0.045466	0.0088	0.149352
10	2.131152	0.000207	0.01778	0.007759	0.12192
11	3.649632	0.000572	0.006096	0.001608	0.042672
12	6.237587	0.000949	0.010922	0.001713	0.036576
13	3.190347	0.000995	0.042776	0.013132	0.146304
14	4.114929	0.000728	0.027178	0.007347	0.188976
15	3.697269	0.000548	0.00762	0.001988	0.064008
16	2.875066	0.000302	0.002032	0.000677	0.024384
17	5.857655	0.00079	0.000508	8.53E-05	0.006096
18	4.689277	0.000717	0.000254	5.30E-05	0.003048
19	6.818847	0.00118	0.050038	0.007148	0.18288
20	3.129593	0.000297	0.014224	0.004435	0.124968
21	6.443941	0.003379	0.08255	0.012539	0.377952
22	8.800889	0.002285	0.071882	0.008062	0.164592
23	9.101115	0.002707	0.05461	0.00593	0.09144
24	4.224856	0.003609	0.051308	0.01184	0.134112
25	7.828376	0.001827	0.029464	0.00373	0.100584
26	4.508902	0.005982	0.079756	0.017375	0.231648
27	3.21451	0.003067	0.033528	0.010058	0.073152
28	4.35182	0.001005	0.027686	0.006225	0.064008
29	4.132816	0.002983	0.048006	0.011186	0.100584
30	3.170203	0.000401	0.001524	0.000463	0.009144
31	4.563996	0.002122	0.045212	0.009666	0.09144
32	2.906189	0.000559	0.012954	0.004259	0.064008
33	6.173524	0.001191	0.007186	0.001171	0.073152
34	7.633382	0.001617	0.037592	0.004825	0.112776
35	4.58213	0.00119	0.013208	0.002805	0.033528
36	4.200833	0.004151	0.099314	0.022919	0.219456
37	11.5312	0.002925	0.011938	0.001023	0.036576

38	3.295553	0.000784	0.010922	0.003197	0.082296
39	4.008051	0.001049	0.059944	0.014532	0.585216
40	2.613142	0.000305	0.018288	0.006588	0.10668
41	3.302823	0.000523	0.00127	0.000367	0.01524
42	4.122251	0.001126	0.018288	0.004261	0.088392
43	5.356068	0.002813	0.089154	0.01621	0.16764
44	3.038045	0.001004	0.064516	0.020392	0.219456
45	4.578193	0.00085	0.012446	0.002643	0.085344
46	7.484252	0.002115	0.038608	0.005063	0.316992
47	4.001112	0.003516	0.0254	0.006158	0.097536
48	4.570528	0.001524	0.011684	0.002482	0.04572
49	4.375554	0.00171	0.027178	0.00604	0.109728
50	4.671998	0.000898	0.009398	0.001961	0.027432
51	5.896292	0.005239	0.052832	0.008745	0.170688
52	4.257163	0.000718	0.011684	0.002671	0.036576
53	2.875164	0.000463	0.00508	0.001693	0.01524
54	3.625219	0.000629	0.003048	0.000795	0.018288
55	4.135663	0.000731	0.008636	0.002012	0.042672
56	3.385827	0.000565	0.01016	0.002869	0.10668
57	4.140171	0.001585	0.028448	0.006629	0.097536
58	4.22303	0.001811	0.039624	0.009144	0.176784
59	3.375109	0.000533	0.014986	0.004554	0.067056
60	3.318904	0.000434	0.010979	0.00356	0.103632
61	7.076476	0.001478	0.011684	0.001621	0.039624
62	4.103331	0.000701	0.000254	5.98E-05	0.003048
63	3.15575	0.000442	0.044196	0.013427	0.195072
64	4.875389	0.001658	0.017146	0.003467	0.064008
65	4.436117	0.000949	0.044196	0.009731	0.204216
66	12.96194	0.003278	0.02413	0.001838	0.067056
67	6.176223	0.002538	0.060198	0.009505	0.210312
68	5.711013	0.001163	0.00281	0.00052	0.021336
69	4.193706	0.003918	0.019304	0.004498	0.085344
70	4.467645	0.00218	0.023368	0.005098	0.079248
71	3.709524	0.001218	0.029464	0.007686	0.094488
72	6.094499	0.002438	0.026162	0.004186	0.082296
73	8.11706	0.002447	0.035052	0.004249	0.057912
74	2.406441	0.000337	0.000508	0.0002	0.006096
75	5.458661	0.001069	0.013462	0.002376	0.042672
76	7.61562	0.003556	0.051308	0.00662	0.09144
77	2.986068	0.003629	0.051562	0.0165	0.082296
78	3.403309	0.001951	0.018796	0.005341	0.057912
79	6.603462	0.002418	0.042418	0.006284	0.109728
80	7.525821	0.001846	0.042164	0.0055	0.195072

81	6.674707	0.002592	0.05207	0.007667	0.149352
82	2.93565	0.001969	0.058166	0.019123	0.490728
83	1.735951	0.000243	0.016002	0.008579	0.051816
84	11.78135	0.002777	0.041656	0.003496	0.280416
85	3.809435	0.000697	0.022606	0.005711	0.097536
86	4.146858	0.001687	0.084055	0.020047	0.27432
87	3.710209	0.00189	0.080264	0.020991	0.481584
88	6.481926	0.004492	0.065329	0.009938	0.158496
89	9.700334	0.002547	0.02413	0.002454	0.185928
90	3.417869	0.000384	0.012446	0.003514	0.112776
91	3.598842	0.001568	0.065532	0.017475	0.707136
92	3.740984	0.00069	0.024892	0.006424	0.25908
93	3.10867	0.000466	0.013716	0.00422	0.04572
94	4.913386	0.001536	0.001778	0.000353	0.021336
95	4.022221	0.002588	0.051054	0.012377	0.240792
96	2.593707	0.001178	0.038608	0.014039	0.149352
97	4.259086	0.003938	0.089408	0.020243	0.094488
98	4.804613	0.000977	0.055005	0.011236	0.179832
99	2.86309	0.00034	0.017339	0.005873	0.158496
100	3.798168	0.000989	0.05842	0.014916	0.332232
101	2.954674	0.000688	0.028956	0.009391	0.094488
102	4.06378	0.001239	0.03556	0.008534	0.097536
103	3.248124	0.000881	0.01778	0.005204	0.051816
104	4.073365	0.001271	0.019812	0.004708	0.100584
105	4.074761	0.001212	0.018034	0.004285	0.039624
106	2.277045	0.000287	0.012954	0.005469	0.042672
107	3.988519	0.000863	0.019558	0.00479	0.112776
108	4.097641	0.001	0.021082	0.00496	0.048768
109	3.269421	0.000488	0.01143	0.003345	0.04572
110	3.920524	0.000884	0.039878	0.009867	0.185928
111	3.933846	0.001522	0.044704	0.010948	0.192024
112	3.909958	0.002901	0.085344	0.021116	0.377952
113	5.387805	0.002583	0.035052	0.006325	0.0762
114	4.005631	0.000856	0.025654	0.006219	0.094488
115	3.499798	0.002372	0.10922	0.03013	0.188976
116	3.033714	0.000848	0.023114	0.007299	0.13716
117	2.810262	0.002569	0.032512	0.011147	0.323088
118	3.030885	0.001575	0.032766	0.010347	0.082296
119	3.929508	0.000732	0.046736	0.011446	0.192024
120	5.049106	0.001164	0.000254	7.19E-05	0.003048
121	4.118744	0.001548	0.079248	0.018647	0.277368
122	3.299829	0.001105	0.007366	0.00213	0.082296
123	3.367223	0.000532	0.012954	0.003731	0.064008

124	5.86733	0.001888	0.142748	0.023791	1.118616
125	3.329987	0.000984	0.035306	0.010209	0.21336
126	4.494118	0.001025	0.017018	0.003703	0.146304
127	3.237569	0.000484	0.008128	0.002408	0.057912
128	5.192321	0.004707	0.10541	0.019938	0.201168
129	4.098051	0.002311	0.012446	0.002928	0.057912
130	8.174614	0.004419	0.077724	0.009379	0.374904
131	2.438243	0.000402	0.01143	0.004523	0.048768
132	6.063018	0.002708	0.045974	0.007455	0.082296
133	2.738653	0.001294	0.022352	0.007775	0.124968
134	4.007489	0.000969	0.02032	0.004944	0.070104
135	4.648887	0.000956	0.01397	0.002915	0.064008
136	3.311189	0.002509	0.020009	0.006038	0.12192
137	2.170322	0.000393	0.012249	0.006674	0.06096
138	9.266757	0.001876	0.012192	0.001295	0.03048
139	3.924828	0.002757	0.100838	0.02495	0.283464
140	4.050339	0.000811	0.01778	0.004267	0.079248
141	2.250437	0.000346	0.003302	0.001471	0.021336
142	5.473518	0.001254	0.019812	0.003496	0.036576
143	2.836605	0.001197	0.035814	0.012106	0.161544
144	2.666885	0.000404	0.017018	0.006006	0.057912
145	5.942306	0.000762	0.011684	0.001921	0.036576
146	2.887172	0.000728	0.000508	0.000167	0.006096
147	3.024581	0.000953	0.010869	0.003495	0.070104
148	4.119948	0.002098	0.020828	0.004901	0.18288
149	7.656589	0.001814	0.02794	0.003586	0.21336
150	3.222442	0.000859	0.086868	0.025739	0.588264
151	5.58475	0.001286	0.011176	0.001971	0.036576
152	2.298773	0.000383	0.02286	0.009299	0.268224
153	4.465083	0.000984	0.005588	0.001219	0.054864
154	5.369282	0.000421	0.016002	0.002909	0.10668
155	4.279482	0.003525	0.07161	0.016428	0.286512
156	3.81015	0.00079	0.016871	0.004323	0.057912
157	3.963019	0.002201	0.02032	0.004976	0.088392
158	1.998965	0.000463	0.014224	0.006694	0.170688
159	5.790256	0.001329	0.004572	0.000773	0.054864
160	3.334785	0.000421	0.010414	0.003011	0.057912
161	4.489687	0.004246	0.05842	0.012664	0.204216
162	5.026115	0.001746	0.109474	0.021365	0.268224
163	4.262759	0.001359	0.004826	0.001093	0.024384
164	3.802714	0.000686	0.027178	0.006939	0.146304
165	6.637052	0.001356	0.017272	0.002559	0.051816
166	6.067189	0.003271	0.075184	0.01211	0.118872

167	27.98858	0.00593	0.0889	0.003166	0.18288
168	9.496895	0.003433	0.080157	0.00845	0.283464
169	6.944607	0.003502	0.097028	0.013698	0.118872
170	3.335107	0.000467	0.033782	0.009652	0.231648
171	4.63709	0.001335	0.017018	0.003583	0.027432
172	4.188275	0.002659	0.051308	0.011728	0.271272
173	7.64575	0.002351	0.098552	0.012716	0.323088
174	4.000109	0.000651	0.018796	0.004557	0.146304
175	4.423439	0.001193	0.05842	0.013953	0.158496
176	2.82015	0.001305	0.015748	0.005249	0.10668
177	4.528328	0.002869	0.047976	0.010424	0.10668
178	2.687522	0.001915	0.025146	0.008875	0.12192
179	2.707638	0.001206	0.023333	0.009325	0.268309
180	3.936963	0.000947	0.004572	0.001131	0.051816
181	4.901274	0.000911	0.03302	0.006549	0.115824
182	4.261267	0.003231	0.056204	0.012994	0.146304
183	2.579309	0.001126	0.014478	0.005346	0.079248
184	8.213665	0.001485	0.000254	3.05E-05	0.003048
185	3.421473	0.001089	0.033274	0.009395	0.216408
186	2.572059	0.002525	0.0276	0.010411	0.112776
187	2.201083	0.000435	0.032852	0.014946	0.185928
188	4.110687	0.00149	0.02794	0.006639	0.124968
189	7.070201	0.004432	0.0508	0.007047	0.10668
190	2.693957	0.000906	0.040132	0.014164	0.128016
191	6.354823	0.001404	0.004318	0.000664	0.021336
192	2.41947	0.000156	0.012954	0.005097	0.073152
193	3.066586	0.00122	0.046736	0.014759	0.097536
194	2.285706	0.000216	0.014986	0.006096	0.085344
195	3.064187	0.000338	0.013716	0.004275	0.103632
196	3.768703	0.000907	0.027178	0.007014	0.13716
197	2.620433	0.00031	0.011954	0.004632	0.048768
198	2.789563	0.000451	0.017272	0.005838	0.079248
199	3.824336	0.000901	0.02286	0.005775	0.088392
200	2.566588	0.000612	0.014224	0.005252	0.10668
201	3.760252	0.000892	0.017259	0.004459	0.100584
202	2.737763	0.000505	0.016002	0.005648	0.134112
203	3.473988	0.000456	0.004826	0.001331	0.01524
204	3.123563	0.000498	0.009398	0.002892	0.027432
205	3.675066	0.000641	0.022606	0.005962	0.0762
206	4.134314	0.000941	0.003048	0.000747	0.018288
207	5.221878	0.003265	0.044958	0.008364	0.158496
208	2.622379	0.000981	0.031496	0.011288	0.103632
209	7.840144	0.001784	0.026416	0.003319	0.073152

210	2.598228	0.00079	0.037084	0.013693	0.170688
211	2.759928	0.000322	0.006858	0.002351	0.070104
212	2.79471	0.000269	0.013208	0.004528	0.158496
213	3.719473	0.001435	0.049276	0.012855	0.332232
214	3.44347	0.000543	0.029718	0.008293	0.353568
215	3.441068	0.000413	0.01524	0.004262	0.140208
216	3.003696	0.00036	0.011221	0.003946	0.067056
217	2.668206	0.000199	0.0127	0.004549	0.1524
218	3.491175	0.000379	0.00254	0.000701	0.018288
219	3.743099	0.000676	0.022352	0.005768	0.1524
220	3.990157	0.000802	0.026924	0.006527	0.0762
221	4.206666	0.000772	0.009398	0.002169	0.048768
222	4.239665	0.000807	0.012192	0.002787	0.04572
223	4.087007	0.00372	0.062484	0.014848	0.158496
224	2.910952	0.002393	0.042926	0.014309	0.21336
225	2.375492	0.000424	0.011684	0.004597	0.054864
226	4.95307	0.001669	0.00508	0.000999	0.018288
227	18.89369	0.003895	0.093472	0.00492	0.124968
228	4.349873	0.004066	0.042164	0.009548	0.170688
229	4.140481	0.002491	0.042926	0.010002	0.12192
230	4.16661	0.004061	0.086614	0.020182	0.256032
231	3.178779	0.001382	0.031496	0.009459	0.06096
232	3.918601	0.001036	0.011176	0.002765	0.054864
233	10.2511	0.006707	0.12954	0.012448	0.222504
234	7.354756	0.002554	0.017272	0.002316	0.057912
235	3.852165	0.001537	0.031242	0.007879	0.079248
236	2.418691	0.000428	0.030734	0.011897	0.24384
237	2.317221	0.000172	0.018288	0.007439	0.0762
238	3.200083	0.000418	0.01905	0.005715	0.085344
239	4.166885	0.000553	0.022606	0.005217	0.222504
240	4.060259	0.000843	0.035052	0.008412	0.234696
241	3.481812	0.00064	0.009144	0.002552	0.051816
242	4.422088	0.000771	0.006604	0.001454	0.027432
243	5.322052	0.001469	0.049784	0.009127	0.25908
244	3.683918	0.000668	0.006858	0.001848	0.024384
245	4.650594	0.006406	0.131572	0.027459	0.268224
246	7.457656	0.001156	0.027178	0.003607	0.097536
247	3.769792	0.000619	0.037084	0.009468	0.268224
248	4.710888	0.000903	0.05461	0.011299	0.25908
249	2.631891	0.000363	0.024384	0.008735	0.143256
250	9.080939	0.005253	0.060706	0.006593	0.097536
251	3.60187	0.000626	0.018288	0.004932	0.06096
252	4.185442	0.001257	0.023876	0.00551	0.16764

253	4.170972	0.001407	0.030226	0.007043	0.082296
254	3.358517	0.001811	0.051816	0.014983	0.188976
255	2.949515	0.000504	0.012192	0.004008	0.054864
256	4.621845	0.001165	0.007366	0.001551	0.027432
257	3.54708	0.000588	0.005334	0.001438	0.021336
258	4.042209	0.001572	0.038354	0.009205	0.268224
259	4.321701	0.006426	0.117506	0.026671	0.393192
260	8.966988	0.003602	0.007874	0.000863	0.039624
261	3.390162	0.001713	0.047752	0.013643	0.143256
262	4.790812	0.001097	0.021336	0.00434	0.033528
263	3.830082	0.001786	0.037592	0.009497	0.231648
264	3.218996	0.000542	0.007874	0.002333	0.079248
265	3.133321	0.000358	0.002794	0.000885	0.018288
266	3.459307	0.000492	0.02667	0.007443	0.140208
267	2.432415	0.00031	0.056327	0.02236	0.445008
268	2.636199	0.000278	0.011176	0.004064	0.115824
269	3.836759	0.000659	0.020828	0.005262	0.094488
270	4.575434	0.001829	0.062992	0.013261	0.252984
271	3.446343	0.000513	0.029073	0.009052	0.185928
272	2.795276	0.000391	0.026162	0.009024	0.234696
273	3.663756	0.000513	0.012954	0.003416	0.118872
274	3.719324	0.000523	0.02032	0.005244	0.204216
275	10.33651	0.002163	0.041148	0.003919	0.164592
276	5.48022	0.00618	0.137414	0.024629	0.204216
277	3.821562	0.000716	0.010922	0.002759	0.109728
278	2.808407	0.000344	0.010872	0.003829	0.048768
279	4.679607	0.007534	0.146558	0.030601	0.323088
280	17.16813	0.003653	0.033528	0.001939	0.115824
281	3.872966	0.000664	0.015748	0.003982	0.048768
282	3.916402	0.000936	0.027686	0.00678	0.109728
283	2.711972	0.001721	0.037592	0.013075	0.19812
284	3.96463	0.00089	0.02159	0.005306	0.176784
285	4.147742	0.001004	0.013716	0.003196	0.09144
286	3.508399	0.000552	0.007112	0.00194	0.036576
287	5.160511	0.005041	0.05842	0.011057	0.316992
288	2.266457	0.0005	0.01143	0.00473	0.085344
289	2.774597	0.003317	0.076708	0.026681	0.207264
290	5.602332	0.003009	0.047299	0.008223	0.124968
291	3.438594	0.000451	0.00127	0.000359	0.01524
292	2.567523	0.000417	0.012954	0.004783	0.0762
293	3.825497	0.000808	0.017526	0.004428	0.09144
294	2.463637	0.000314	0.007144	0.002806	0.054864
295	3.793646	0.000958	0.019812	0.005037	0.12192

296	3.80932	0.000808	0.025146	0.00642	0.088392
297	3.081299	0.00036	0.017272	0.005383	0.176784
298	3.516788	0.000523	0.014986	0.004087	0.118872
299	4.813074	0.000729	0.027686	0.005584	0.128016
300	4.262159	0.00206	0.025654	0.005864	0.124968
301	3.52318	0.000507	0.053086	0.01617	0.28956
302	2.611286	0.000396	0.000508	0.000185	0.006096
303	2.420276	0.000125	0.018288	0.007996	0.109728
304	3.579314	0.000391	0.035052	0.009521	0.225552
305	2.967454	0.000367	0.004572	0.001483	0.054864
306	4.286531	0.002002	0.040132	0.009086	0.210312
307	2.990313	0.000391	0.000762	0.000247	0.009144
308	3.92809	0.000644	0.032512	0.007962	0.27432
309	5.129836	0.003572	0.04064	0.007741	0.246888
310	3.538745	0.000861	0.013462	0.003671	0.06096
311	4.157704	0.004235	0.04953	0.011541	0.252984
312	3.375109	0.000564	0.009652	0.002758	0.04572
313	4.148197	0.00537	0.048768	0.011363	0.28956
314	4.048554	0.001354	0.011176	0.002682	0.085344
315	4.254061	0.004716	0.076962	0.017425	0.161544
316	11.36118	0.003585	0.026108	0.002476	0.13716
317	3.30878	0.00039	0.00889	0.002602	0.094488
318	3.541686	0.000496	0.006604	0.001781	0.06096
319	2.980748	0.001193	0.030988	0.009916	0.131064
320	3.54953	0.000775	0.019558	0.005334	0.143256
321	4.121807	0.001705	0.032004	0.00753	0.103632
322	2.662633	0.000599	0.018034	0.006365	0.134112
323	4.39119	0.001346	0.032258	0.007103	0.09144
324	3.128317	0.00059	0.014224	0.004321	0.051816
325	4.160674	0.001101	0.02413	0.005623	0.054864
326	3.793109	0.00092	0.016764	0.00428	0.12192
327	3.957205	0.001468	0.041368	0.01022	0.16764
328	2.65008	0.000531	0.017212	0.006326	0.0762
329	7.171268	0.002863	0.047244	0.006442	0.131064
330	3.55813	0.001081	0.044324	0.012157	0.170688
331	3.2565	0.000252	0.031496	0.009332	0.18288
332	2.719288	0.000493	0.023622	0.008337	0.124968
333	3.845257	0.000697	0.039824	0.010095	0.170688
334	4.047641	0.000719	0.038136	0.009114	0.201168
335	2.856375	0.000613	0.029464	0.00996	0.128016
336	3.39702	0.00136	0.04191	0.011917	0.225552
337	1.408904	7.53E-05	0.018542	0.012027	0.210312
338	3.89502	0.000759	0.048514	0.01222	0.225552

339	2.53549	0.000355	0.03556	0.013335	0.185928
340	3.686495	0.000862	0.01778	0.004689	0.094488
341	5.4019	0.001205	0.031242	0.005638	0.368808
342	4.087974	0.000755	0.033782	0.008052	0.161544
343	4.392677	0.002096	0.071628	0.015771	0.185928
344	2.668322	0.001256	0.017018	0.006006	0.10668
345	4.314918	0.001061	0.009652	0.002165	0.03048
346	4.965519	0.002915	0.087122	0.016999	0.249936
347	3.260663	0.000548	0.01143	0.003643	0.03048
348	4.954998	0.001029	0.012192	0.002398	0.048768
349	6.141734	0.002201	0.034798	0.005531	0.088392
350	5.170466	0.008391	0.122428	0.023136	0.374904
351	3.452201	0.001069	0.046482	0.012972	0.085344
352	4.065892	0.00191	0.027686	0.006579	0.112776
353	10.67305	0.006328	0.09271	0.008565	0.170688
354	6.862599	0.002037	0.007366	0.001046	0.0762
355	3.210115	0.001881	0.067289	0.020504	0.131064
356	3.595762	0.000564	0.011176	0.003014	0.06096
357	3.152889	0.001221	0.04572	0.013899	0.185928
358	5.436612	0.001279	0.042948	0.007929	0.103632
359	3.003609	0.00036	0.005842	0.001973	0.021336
360	2.792717	0.000386	0.02032	0.007078	0.09144
361	3.494403	0.000443	0.017272	0.004765	0.16764
362	3.545634	0.000923	0.065786	0.017942	0.41148
363	2.553097	0.000942	0.047244	0.017743	0.219456
364	2.821089	0.000486	0.027686	0.009229	0.097536
365	4.302832	0.000877	0.045077	0.010237	0.124968
366	2.96184	0.000243	0.01524	0.004943	0.082296
367	2.691182	0.000199	0.011176	0.004024	0.070104
368	3.549258	0.001553	0.03302	0.008904	0.210312
369	2.088473	0.00011	0.010668	0.004831	0.057912
370	3.429868	0.000434	0.016256	0.004537	0.100584
371	2.651124	0.000249	0.00635	0.002275	0.0762
372	4.805339	0.000812	0.02159	0.004802	0.128016
373	2.875051	0.00025	0.004572	0.001503	0.054864
374	3.803545	0.000837	0.026162	0.00668	0.283464
375	4.706541	0.000724	0.009144	0.001892	0.039624
376	5.185282	0.002635	0.045212	0.008477	0.161544
377	4.788148	0.001493	0.034544	0.007026	0.109728
378	3.680665	0.000637	0.019474	0.005268	0.079248
379	4.891146	0.001995	0.024638	0.004887	0.06096
380	4.756459	0.001855	0.019812	0.004064	0.064008
381	3.234679	0.002891	0.050292	0.014901	0.204216

382	3.60254	0.001114	0.018542	0.005	0.109728
383	3.127846	0.004093	0.054102	0.016647	0.170688
384	3.640575	0.002125	0.0381	0.010082	0.048768
385	5.101872	0.001812	0.03937	0.007499	0.073152
386	7.07273	0.001386	0.017526	0.002431	0.064008
387	4.073352	0.001332	0.022098	0.005251	0.064008
388	8.855312	0.003436	0.044704	0.00499	0.094488
389	4.273809	0.000873	0.023368	0.005341	0.06096
390	4.929048	0.001848	0.031496	0.006196	0.0762
391	3.67601	0.000606	0.03556	0.009277	0.143256
392	3.229273	0.000498	0.02667	0.007902	0.0762
393	4.551882	0.002488	0.021914	0.004735	0.173736
394	3.087552	0.000535	0.013716	0.004275	0.161544
395	3.845148	0.00063	0.005334	0.001348	0.054864
396	3.239255	0.000524	0.000508	0.000151	0.003048
397	3.968021	0.000708	0.076454	0.018534	0.569976
398	5.162874	0.001241	0.054864	0.010404	0.1524
399	4.114665	0.000797	0.023622	0.005558	0.140208
400	5.545339	0.001599	0.036322	0.00641	0.067056
401	3.328248	0.000557	0.021336	0.006169	0.082296
402	4.12532	0.003025	0.032512	0.00765	0.115824
403	8.082151	0.006486	0.048006	0.005848	0.149352
404	6.560792	0.003745	0.03683	0.00549	0.112776
405	3.985443	0.00193	0.03683	0.008928	0.134112
406	3.763022	0.000684	0.0127	0.003277	0.033528
407	7.074743	0.003445	0.043688	0.006061	0.18288
408	4.310453	0.001396	0.025146	0.00564	0.131064
409	6.886633	0.004734	0.068072	0.009725	0.19812
410	4.730126	0.003172	0.05588	0.011561	0.222504
411	8.534355	0.002292	0.03302	0.003829	0.0762
412	3.508549	0.000461	0.02323	0.0065	0.12192
413	2.951259	0.000413	0.001524	0.000494	0.018288
414	3.648601	0.000633	0.021082	0.005622	0.082296
415	3.357818	0.000562	0.002286	0.000653	0.012192
416	5.00615	0.001163	0.036322	0.007087	0.13716
417	4.625996	0.001897	0.0254	0.005491	0.073152
418	3.617771	0.000404	0.036735	0.009821	0.25908
419	8.148221	0.0015	0.02921	0.003523	0.115824
420	2.789226	0.00026	0.000254	0.000119	0.003048
421	7.208418	0.001466	0.05969	0.008048	0.256032
422	4.197581	0.003354	0.061468	0.014229	0.146304
423	4.243227	0.00288	0.032004	0.007315	0.088392
424	6.395454	0.00444	0.052324	0.00805	0.085344

425	4.512253	0.004081	0.043688	0.009446	0.097536
426	3.810328	0.000808	0.011938	0.003016	0.094488
427	7.138123	0.001883	0.028956	0.003994	0.1524
428	6.315445	0.002319	0.03683	0.005703	0.12192
429	6.426066	0.002332	0.034544	0.005281	0.112776
430	6.055496	0.002077	0.039624	0.006493	0.13716
431	3.175755	0.002263	0.037592	0.01142	0.124968
432	2.323081	0.000295	0.011938	0.004856	0.070104
433	3.495294	0.00055	0.026416	0.007468	0.103632
434	3.192937	0.000508	0.01524	0.004602	0.051816
435	2.713606	0.000258	0.023368	0.008128	0.176784
436	3.847535	0.000722	0.004826	0.001207	0.042672
437	4.271629	0.0011	0.018034	0.004083	0.179832
438	3.657223	0.000652	0.030226	0.007972	0.249936
439	3.979698	0.000832	0.026416	0.006404	0.12192
440	2.892443	0.000374	0.000254	8.35E-05	0.003048
441	8.829912	0.001757	0.048514	0.005416	0.149352
442	3.291831	0.000471	0.017272	0.005055	0.161544
443	5.005093	0.001373	0.027432	0.005309	0.094488
444	4.608534	0.003492	0.013208	0.002781	0.054864
445	5.471033	0.003174	0.03048	0.005459	0.103632
446	5.176273	0.001639	0.027297	0.005184	0.100584
447	4.281868	0.000965	0.019812	0.004486	0.128016
448	4.535947	0.001092	0.02032	0.004354	0.124968
449	9.03846	0.004527	0.068072	0.007426	0.112776
450	5.335647	0.001692	0.025654	0.0047	0.067056
451	4.929866	0.001675	0.02159	0.004282	0.097536
452	4.471814	0.001723	0.020574	0.004489	0.079248
453	3.090358	0.000616	0.020066	0.006254	0.073152
454	8.49532	0.001889	0.035306	0.004093	0.134112
455	4.450197	0.000836	0.020066	0.004378	0.085344
456	6.812969	0.001746	0.054102	0.007775	0.13716
457	3.51285	0.000553	0.009144	0.002522	0.097536
458	3.379232	0.000443	0.011938	0.003407	0.048768
459	4.572263	0.000823	0.005842	0.001241	0.012192
460	3.197985	0.000532	0.000254	7.62E-05	0.003048
461	6.485657	0.001091	0.025635	0.004067	0.118872
462	3.374398	0.000598	0.014224	0.004064	0.128016
463	7.21064	0.001535	0.02286	0.003117	0.131064
464	4.708454	0.001055	0.01905	0.003908	0.09144
465	12.59288	0.004449	0.097028	0.007635	0.146304
466	3.616689	0.005304	0.040386	0.010735	0.079248
467	4.425376	0.002174	0.054864	0.01208	0.12192

468	10.21754	0.003564	0.05461	0.005285	0.094488
469	3.26169	0.001005	0.048006	0.014051	0.161544
470	4.698224	0.001901	0.03175	0.006569	0.064008
471	6.337001	0.001984	0.045212	0.007001	0.134112
472	3.588218	0.001588	0.030988	0.008356	0.185928
473	2.946745	0.002555	0.04826	0.015652	0.252984
474	4.119482	0.001613	0.01016	0.002414	0.067056
475	3.604331	0.000596	0.007112	0.001897	0.036576
476	5.468188	0.001263	0.022352	0.004003	0.064008
477	3.90924	0.003507	0.062484	0.015621	0.256032
478	3.982386	0.001533	0.027686	0.006712	0.118872
479	10.1375	0.004329	0.066548	0.006492	0.097536
480	11.64303	0.002349	0.048514	0.004129	0.103632
481	4.699282	0.001303	0.053594	0.011115	0.21336
482	6.222058	0.000871	0.035306	0.005538	0.140208
483	3.984123	0.000802	0.0271	0.010582	0.264274
484	3.776227	0.003858	0.102481	0.027729	0.19812
485	7.596416	0.001429	0.016002	0.002076	0.036576
486	3.718053	0.000673	0.036723	0.009505	0.12192
487	2.929633	0.001029	0.041402	0.013612	0.112776
488	3.951932	0.003115	0.059436	0.017702	0.313944
489	2.945666	0.000496	0.009144	0.003469	0.057912
490	5.635902	0.001023	0.092703	0.016227	0.877824
491	4.66874	0.000975	0.058051	0.012139	0.27432
492	8.709669	0.001159	0.046482	0.005262	0.496824
493	3.208393	0.00048	0.00508	0.001505	0.06096
494	6.18006	0.001231	0.04572	0.007219	0.21336
495	3.863032	0.001829	0.053848	0.013604	0.371856
496	5.031496	0.000979	0.021082	0.00408	0.088392
497	4.403981	0.000893	0.035052	0.007789	0.112776
498	4.573189	0.000945	0.02667	0.005715	0.118872
499	3.961777	0.004957	0.057404	0.014058	0.170688
500	4.004735	0.000957	0.00889	0.002134	0.04572
501	4.701105	0.000963	0.014224	0.002943	0.03048
502	3.944143	0.002472	0.021082	0.005111	0.064008
503	2.419727	0.0004	0.013716	0.005396	0.04572
504	5.086498	0.0012	0.005842	0.001122	0.036576
505	3.632915	0.0006	0.002794	0.000745	0.027432
506	4.213946	0.00184	0.02159	0.004982	0.13716
507	2.989467	0.003432	0.058928	0.018609	0.149352
508	4.182877	0.000688	0.006923	0.001731	0.024384
509	10.9862	0.002635	0.00889	0.000799	0.027432
510	2.460635	0.000344	0.002427	0.000983	0.027432

511	3.635798	0.000418	0.00635	0.001693	0.027432
512	2.498812	0.00038	0.00381	0.001451	0.036576
513	4.18736	0.002489	0.04445	0.010357	0.13716
514	3.499318	0.000521	0.023876	0.006586	0.103632
515	3.467421	0.000516	0.022098	0.006167	0.115824
516	3.438652	0.000451	0.000508	0.000143	0.003048
517	3.731965	0.000731	0.01778	0.00454	0.09144
518	3.78509	0.00053	0.025146	0.00642	0.173736
519	3.18549	0.000476	0.021527	0.006831	0.164592
520	3.717783	0.000714	0.066802	0.017427	0.231648
521	2.405855	0.000215	0.00762	0.002998	0.088392
522	3.48291	0.00064	0.020574	0.005711	0.094488
523	5.058817	0.00147	0.016256	0.003146	0.097536
524	3.608525	0.000509	0.00937	0.002534	0.033528
525	6.228042	0.001839	0.02286	0.003586	0.27432
526	2.187046	1.70E-05	0.012954	0.006443	0.073152
527	2.982051	0.00121	0.010212	0.003675	0.082296
528	2.68304	0.001038	0.01524	0.005379	0.097536
529	3.432641	0.000653	0.004318	0.001219	0.036576
530	4.484723	0.001268	0.04699	0.01016	0.100584
531	4.248526	0.010335	0.117602	0.026651	0.173736
532	7.975918	0.006268	0.10668	0.013063	0.47244
533	3.938643	0.002228	0.004064	0.001006	0.048768
534	2.329979	0.000223	0.062953	0.026648	0.210312
535	1.990025	0.000206	0.00381	0.001793	0.021336
536	2.182762	0.000153	0.000762	0.000333	0.009144
537	4.017256	0.001495	0.04826	0.011468	0.158496
538	3.179441	0.000757	0.031496	0.009568	0.149352
539	4.61626	0.002176	0.033782	0.007122	0.09144
540	1.87915	0.000107	0.006604	0.003235	0.051816
541	2.671045	0.000587	0.018796	0.006634	0.085344
542	5.781247	0.001549	0.041656	0.00709	0.179832
543	5.442906	0.002865	0.03175	0.005706	0.0762
544	3.821156	0.001338	0.033782	0.008534	0.231648
545	3.493783	0.000494	0.011938	0.003293	0.027432
546	2.9504	0.000413	0.012192	0.003901	0.048768
547	3.86048	0.000784	0.023622	0.005905	0.0762
548	3.496007	0.000489	0.01651	0.004554	0.06096
549	3.767706	0.000693	0.007112	0.001835	0.033528
550	4.002355	0.001022	0.021082	0.005111	0.088392
551	3.81739	0.002494	0.039116	0.009882	0.13716
552	2.603511	0.000509	0.01016	0.003776	0.04572
553	3.980975	0.000923	0.01016	0.002463	0.054864

554	3.984989	0.000466	0.025931	0.006447	0.109728
555	3.32226	0.000496	0.010668	0.003122	0.051816
556	3.197999	0.000451	0.007112	0.002161	0.0762
557	3.858828	0.000876	0.02667	0.006738	0.13716
558	4.10669	0.002099	0.031496	0.007484	0.070104
559	6.56619	0.005761	0.062884	0.00939	0.10668
560	6.774427	0.001898	0.030988	0.004507	0.28956
561	4.823122	0.000584	0.116586	0.023743	0.420624
562	2.197143	0.000203	0.000508	0.000214	0.006096
563	1.857555	-1.86E-05	0.004572	0.002286	0.054864
564	2.743385	0.001399	0.06477	0.02225	0.323088
565	2.776465	0.001863	0.062484	0.021423	0.48768
566	4.480552	0.001328	0.022098	0.005541	0.103632
567	3.879028	0.000693	0.050038	0.012381	0.192024
568	3.187381	0.000599	0.061722	0.019887	0.164592
569	4.165139	0.001193	0.014224	0.003334	0.067056
570	3.596483	0.002363	0.04064	0.010959	0.252984
571	3.28911	0.000636	0.002032	0.000595	0.024384
572	2.755038	0.000237	0.000762	0.000265	0.009144
573	4.247636	0.002945	0.025908	0.006	0.088392
574	3.97583	0.000879	0.014224	0.003448	0.057912
575	4.102618	0.001367	0.044958	0.010683	0.195072
576	4.148423	0.00485	0.031496	0.007339	0.057912
577	2.159194	0.000264	0.018353	0.008477	0.039624
578	3.554643	0.000894	0.019304	0.005206	0.0762
579	3.973565	0.002381	0.037592	0.009113	0.118872
580	7.276028	0.001372	0.013462	0.001815	0.048768
581	4.125771	0.000913	0.01778	0.004143	0.143256
582	3.859598	0.000815	0.019558	0.00489	0.10668
583	3.588515	0.002484	0.035052	0.009244	0.158496
584	2.983993	0.000509	0.011938	0.003872	0.042672
585	4.224878	0.001049	0.00508	0.001161	0.042672
586	5.000308	0.001797	0.053197	0.010367	0.435864
587	3.280827	0.000459	0.00254	0.000743	0.027432
588	3.443375	0.000477	0.013136	0.003957	0.048768
589	4.86519	0.000559	0.001524	0.000305	0.012192
590	3.266049	0.000549	0.038354	0.011364	0.353568
591	3.29914	0.001071	0.038354	0.011226	0.18288
592	3.26621	0.000427	0.003048	0.000912	0.018288
593	5.878396	0.000984	0.029718	0.004953	0.161544
594	7.103272	0.003967	0.08522	0.012157	0.24384
595	2.851985	0.000294	0.021997	0.007577	0.10668

596	3.361218	0.000541	0.01524	0.004354	0.149352
597	4.573321	0.000705	0.005588	0.001187	0.048768
598	3.22123	0.000409	0.005842	0.001731	0.057912
599	4.393796	0.000646	0.00127	0.00028	0.01524
600	5.898026	0.001632	0.110744	0.01833	0.637032
601	3.344416	0.001322	0.02921	0.008446	0.1524
602	4.214891	0.005474	0.041853	0.009694	0.390144
603	5.550462	0.001234	0.063246	0.011161	0.524256
604	4.014805	0.000714	0.0254	0.006158	0.21336
605	3.225831	0.000462	0.004826	0.00143	0.03048
606	3.152996	0.000472	0.005588	0.001698	0.024384
607	4.141216	0.001921	0.03556	0.008367	0.109728
608	4.150679	0.000977	0.020828	0.004853	0.082296
609	4.188333	0.001258	0.036576	0.008523	0.100584
610	4.040552	0.0033	0.049022	0.011765	0.143256
611	4.993455	0.002888	0.018288	0.003568	0.04572
612	2.562746	0.000374	0.000762	0.000281	0.006096
613	4.969145	0.002814	0.037592	0.007335	0.109728
614	2.460465	0.000556	0.0254	0.009525	0.097536
615	3.965535	0.003367	0.049784	0.012192	0.188976
616	2.326029	0.001423	0.017639	0.007405	0.067056
617	2.879963	0.001582	0.058307	0.01953	0.262128
618	11.82866	0.00193	0.007366	0.000616	0.036576
619	3.659369	0.000609	0.020574	0.005426	0.10668
620	6.504992	0.00123	0.06096	0.009144	0.16764
621	3.813853	0.000778	0.042418	0.010733	0.134112
622	5.642552	0.000851	0.003302	0.00057	0.024384
623	7.01473	0.001292	0.029972	0.004207	0.085344
624	3.041723	0.000426	0.013462	0.004196	0.054864
625	5.441082	0.001036	0.002032	0.000364	0.021336
626	4.023668	0.001234	0.009144	0.002217	0.079248
627	5.938714	0.001096	0.052832	0.008685	0.408432
628	5.060912	0.000553	0.057404	0.01111	0.371856
629	5.836199	0.000967	0.008128	0.001345	0.073152
630	2.555647	0.000287	0.023114	0.008668	0.149352
631	3.526882	0.000464	0.000254	7.01E-05	0.003048
632	10.03347	0.00324	0.053086	0.005222	0.405384
633	4.344288	0.002053	0.08636	0.01937	0.3048
634	3.972386	0.000678	0.018458	0.004697	0.067056
635	5.04204	0.003556	0.038603	0.007583	0.16764
636	3.258776	0.000517	0.015494	0.004591	0.158496
637	3.073163	0.000491	0.00889	0.002771	0.097536
638	5.16154	0.001149	0.013208	0.002476	0.048768

639	4.781824	0.001005	0.018796	0.003823	0.082296
640	5.010807	0.003258	0.031496	0.006047	0.10668
641	4.59589	0.001255	0.040132	0.008524	0.118872
642	4.266968	0.002526	0.026416	0.006038	0.128016
643	5.959786	0.003782	0.0508	0.008351	0.134112
644	2.865277	0.000645	0.007874	0.002742	0.04572
645	2.541995	0.000325	0.004826	0.001782	0.042672
646	4.005217	0.001719	0.032512	0.007803	0.204216
647	3.893072	0.000697	0.01397	0.003456	0.16764
648	3.98495	0.005001	0.041148	0.009975	0.16764
649	2.50492	0.000621	0.019304	0.007239	0.12192
650	11.08196	0.003473	0.04572	0.004079	0.161544
651	3.738995	0.000584	0.032512	0.008596	0.103632
652	3.352775	0.000591	0.001016	0.00029	0.009144
653	3.158027	0.000323	0.018225	0.005634	0.140208
654	2.886877	0.000221	0.003302	0.001101	0.024384
655	2.682218	0.000154	0.012446	0.004393	0.134112
656	6.910014	0.001197	0.005334	0.000757	0.033528
657	4.741678	0.006431	0.135994	0.028168	0.4572
658	6.310538	0.001337	0.021336	0.003304	0.112776
659	2.852499	0.000369	0.0127	0.004233	0.057912
660	3.347332	0.00056	0.01397	0.003991	0.070104
661	5.245883	0.001527	0.026924	0.005009	0.085344
662	6.716817	0.001794	0.027178	0.003977	0.128016
663	4.952865	0.000998	0.012192	0.002398	0.048768
664	5.147744	0.00504	0.082042	0.015504	0.286512
665	3.399369	0.000486	0.007112	0.002044	0.06096
666	2.698163	0.000385	0.006604	0.002297	0.039624
667	4.309911	0.003133	0.05588	0.012534	0.109728
668	2.937664	0.000472	0.004064	0.001318	0.024384
669	3.930665	0.000733	0.012192	0.002986	0.140208
670	4.425613	0.000985	0.00762	0.001678	0.064008
671	4.649728	0.001382	0.034544	0.007209	0.067056
672	4.540401	0.00107	0.032004	0.006879	0.079248
673	6.31806	0.003135	0.056896	0.00881	0.10668
674	3.224973	0.000772	0.012932	0.003886	0.070104
675	6.939616	0.001249	0.040132	0.005699	0.21336
676	3.956718	0.000798	0.023876	0.005847	0.115824
677	7.82709	0.001675	0.041488	0.005346	0.173736
678	5.671462	0.001483	0.106782	0.018555	0.8382
679	4.717429	0.003021	0.04572	0.009886	0.155448
680	4.40841	0.000739	0.025146	0.005537	0.118872
681	2.560564	0.000358	0.061468	0.022696	0.371856

682	2.825998	0.000327	0.051308	0.017344	0.307848
683	2.962879	0.000388	0.005842	0.001869	0.033528
684	2.801072	0.00027	0.005334	0.001829	0.054864
685	2.920899	0.000317	0.0111	0.003712	0.04572
686	2.448081	0.000335	0.005588	0.002163	0.064008
687	2.349831	0.000233	0.008636	0.003454	0.057912
688	2.588023	0.000118	0.001016	0.000369	0.009144
689	4.252705	0.000832	0.016764	0.003816	0.109728
690	3.499102	0.000394	0.0127	0.003532	0.054864
691	3.369244	0.000319	0.02286	0.006531	0.149352
692	8.547467	0.008974	0.15657	0.018138	0.277368
693	1.633524	0.000107	0.02794	0.017723	0.143256
694	3.130643	0.000469	0.022352	0.006878	0.088392
695	4.397665	0.00086	0.02286	0.00508	0.103632
696	4.049816	0.00139	0.025146	0.006035	0.1524
697	2.902999	0.00129	0.038354	0.01261	0.1524
698	2.74206	0.000691	0.025146	0.009047	0.067056
699	4.24379	0.003716	0.10414	0.023842	0.16764
700	3.53647	0.002903	0.011938	0.003256	0.036576
701	12.14117	0.005377	0.065786	0.005352	0.143256
702	2.926092	0.001644	0.050038	0.016451	0.16764
703	2.471721	0.000377	0.0127	0.004916	0.033528
704	5.7168	0.00092	0.048768	0.008301	0.176784
705	3.833144	0.003483	0.06731	0.016828	0.210312
706	3.005304	0.00036	0.00254	0.000802	0.021336
707	3.525999	0.001082	0.042418	0.011702	0.18288
708	2.708533	0.000562	0.009652	0.003407	0.067056
709	2.896252	0.002746	0.08509	0.027597	0.316992
710	2.203474	0.000378	0.013716	0.005878	0.057912
711	2.651692	0.000723	0.051816	0.018288	0.09144
712	1.968394	0.000111	0.002286	0.001097	0.024384
713	3.858124	0.000693	0.009652	0.002413	0.112776
714	4.441131	0.001048	0.035306	0.007774	0.170688
715	3.824622	0.001839	0.023114	0.005846	0.128016
716	2.983088	0.000966	0.019304	0.006177	0.070104
717	3.446575	0.000452	0.016002	0.004466	0.146304
718	3.442168	0.00039	0.03937	0.010987	0.19812
719	3.371635	0.0003	0.03048	0.008709	0.222504
720	2.916817	0.000469	0.007874	0.002554	0.036576
721	3.938049	0.000806	0.032004	0.007919	0.128016
722	3.890755	0.0009	0.01778	0.004445	0.13716
723	4.753396	0.000564	0.002286	0.000469	0.01524
724	5.801022	0.000635	0.027178	0.004561	0.237744

725	3.756651	0.000889	0.00127	0.00042	0.01524
726	2.954929	0.000396	0.012954	0.004201	0.115824
727	2.926417	0.000356	0.00889	0.002883	0.10668
728	2.618602	0.000166	0.034036	0.012502	0.225552
729	3.047079	0.000736	0.026162	0.008262	0.176784
730	2.966723	0.000324	0.000508	0.000163	0.006096
731	3.655434	0.000731	0.02413	0.006435	0.149352
732	7.52913	0.002426	0.080264	0.010526	0.265176
733	5.803205	0.002458	0.072898	0.012235	0.25908
734	4.744927	0.001547	0.01143	0.002345	0.042672
735	4.340359	0.006959	0.11811	0.026492	0.3048
736	5.045664	0.001743	0.012192	0.00236	0.042672
737	5.246664	0.000978	0.001778	0.000331	0.012192
738	4.758034	0.001154	0.020828	0.004272	0.054864
739	4.16924	0.001711	0.032512	0.007576	0.192024
740	2.228323	0.000273	0.016764	0.007678	0.06096
741	7.342732	0.001638	0.025654	0.00344	0.210312
742	4.205736	0.005494	0.066802	0.015269	0.216408
743	2.670521	0.001838	0.041143	0.015914	0.161544
744	2.46723	0.000247	0.01905	0.007374	0.134112
745	10.8016	0.002671	0.0381	0.003477	0.09144
746	3.88592	0.000852	0.02921	0.007302	0.128016
747	3.459023	0.004287	0.047244	0.013184	0.134112
748	6.191547	0.002641	0.019558	0.003109	0.100584
749	2.786409	0.000436	0.018034	0.006183	0.124968
750	4.109395	0.00135	0.035306	0.008307	0.39624
751	2.748674	0.000224	0.014478	0.004964	0.088392
752	2.877133	0.00025	0.00762	0.00254	0.051816
753	5.473451	0.001333	0.04826	0.00858	0.338328
754	3.907133	0.002009	0.018288	0.004525	0.094488
755	3.619057	0.001482	0.003302	0.00089	0.021336
756	3.71281	0.000618	0.041148	0.010734	0.19812
757	2.922277	0.000334	0.009144	0.003006	0.103632
758	4.369669	0.002553	0.046228	0.010273	0.124968
759	6.004696	0.001664	0.045466	0.007423	0.12192
760	5.046998	0.001042	0.02794	0.005408	0.112776
761	4.812283	0.00107	0.026416	0.005373	0.131064
762	4.721235	0.001697	0.027432	0.005627	0.16764
763	4.524021	0.000847	0.018796	0.004028	0.10668
764	4.563689	0.001309	0.022352	0.004774	0.146304
765	3.061825	0.006266	0.065786	0.020505	0.13716
766	3.212072	0.001402	0.046228	0.013919	0.143256
767	4.103856	0.00171	0.0508	0.012071	0.27432

768	2.841415	0.000825	0.023864	0.008071	0.13716
769	6.99043	0.002876	0.046736	0.006559	0.146304
770	2.982083	0.000421	0.009652	0.00313	0.073152
771	5.434199	0.001706	0.03048	0.005419	0.067056
772	2.899834	0.000947	0.010414	0.003378	0.085344
773	4.083563	0.000724	0.008382	0.001972	0.048768
774	3.804343	0.000701	0.024892	0.006361	0.073152
775	3.639805	0.000601	0.012192	0.003251	0.112776
776	3.396927	0.000537	0.044632	0.012773	0.112776
777	3.979794	0.001014	0.054864	0.013436	0.124968
778	3.490214	0.000519	0.01524	0.004204	0.070104
779	4.12911	0.000587	0.02159	0.00508	0.088392
780	4.699994	0.00081	0.054102	0.011194	0.262128
781	3.821011	0.000596	0.023368	0.005903	0.225552
782	2.87161	0.000402	0.000254	8.47E-05	0.003048
783	3.688997	0.000694	0.031496	0.008216	0.204216
784	3.303305	0.000425	0.000254	7.34E-05	0.003048
785	8.002908	0.002459	0.064516	0.00786	0.188976
786	2.576215	0.00051	0.000508	0.000188	0.006096
787	2.575356	0.000482	0.018542	0.006846	0.192024
788	4.511251	0.000898	0.026416	0.005661	0.246888
789	3.002724	0.000366	0.005842	0.001869	0.039624
790	8.805665	0.001263	0.022606	0.002535	0.192024
791	4.166068	0.005091	0.112776	0.026337	0.429768
792	4.077833	0.003162	0.082296	0.019555	0.268224
793	3.347135	0.00053	0.021082	0.006096	0.219456
794	7.397062	0.002196	0.041656	0.005554	0.12192
795	4.347197	0.003078	0.05715	0.0127	0.188976
796	7.315118	0.005986	0.060137	0.008394	0.073152
797	2.376504	0.000685	0.076769	0.031811	0.192024
798	6.063062	0.005003	0.072898	0.011821	0.597408
799	9.138451	0.002249	0.022352	0.002406	0.073152
800	2.557363	0.000297	0.014732	0.00544	0.097536
801	2.786119	0.00143	0.039116	0.013411	0.158496
802	2.487114	0.000226	0.017272	0.006686	0.195072
803	3.938599	0.001218	0.025654	0.006283	0.124968
804	3.830018	0.000658	0.020828	0.005262	0.103632
805	3.283082	0.00049	0.009144	0.002853	0.024384
806	3.638651	0.000593	0.015748	0.004108	0.051816
807	3.975426	0.003253	0.036068	0.008833	0.155448
808	5.231952	0.001979	0.026255	0.005026	0.097536
809	3.772369	0.001046	0.070866	0.018298	0.164592
810	4.137424	0.005203	0.100838	0.023496	0.170688

811	5.598654	0.001668	0.036327	0.006361	0.292608
812	1.752876	-4.67E-05	0.027178	0.014552	0.219456
813	2.44586	0.000114	0.025146	0.009734	0.109728
814	2.848209	0.000952	0.014224	0.004676	0.100584
815	2.622346	0.00107	0.055694	0.02032	0.146304
816	5.563472	0.001558	0.000762	0.000134	0.009144
817	2.974687	0.000559	0.019304	0.006177	0.12192
818	4.039973	0.001375	0.042672	0.010241	0.185928
P1					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	2.908373	0.000828	0.04572	0.01524	0.1524
2	3.25375	0.000991	0.02032	0.005947	0.06096
3	3.717373	0.002504	0.0381	0.009939	0.09144
4	3.740105	0.002478	0.05334	0.013915	0.12192
5	3.02935	0.000778	0.00762	0.002438	0.09144
6	3.372321	0.001114	0.01524	0.004354	0.09144
7	3.399591	0.001309	0.06604	0.018647	0.1524
8	4.783215	0.002567	0.02286	0.004649	0.18288
9	6.971809	0.004391	0.07112	0.01004	0.21336
10	3.2396	0.001015	0.02032	0.006096	0.09144
11	4.441787	0.002862	0.079185	0.017574	0.18288
12	3.481901	0.001288	0.00508	0.001418	0.03048
13	3.708619	0.002276	0.05842	0.01524	0.12192
14	3.533387	0.001128	0.01524	0.004156	0.06096
15	2.752092	0.000685	0.01524	0.005301	0.06096
16	4.169786	0.001764	0.0635	0.014796	0.21336
17	3.567819	0.001854	0.04318	0.011644	0.1524
18	3.529443	0.001415	0.04064	0.011084	0.09144
19	3.232509	0.001686	0.02286	0.006773	0.12192
20	2.457175	0.001138	0.02032	0.007866	0.12192
21	3.246961	0.00123	0.02032	0.006096	0.12192
22	2.625382	0.001463	0.03556	0.012931	0.1524
23	2.889363	0.000623	0.00508	0.001693	0.03048
24	2.818619	0.000693	0.01524	0.005152	0.06096
25	3.065161	0.000813	0.00508	0.001734	0.03048
26	3.438991	0.002289	0.06096	0.017097	0.24384
27	5.853088	0.004428	0.10668	0.018064	0.18288
28	2.60889	0.001763	0.06858	0.024938	0.21336
29	3.706011	0.002299	0.05842	0.01524	0.12192
30	2.730151	0.000682	0.0127	0.004417	0.09144
31	2.342568	0.000558	0.0127	0.006744	0.06096

32	3.440864	0.001804	0.03048	0.008606	0.09144
33	2.957498	0.000889	0.0127	0.004119	0.09144
34	2.547579	0.00097	0.01778	0.007144	0.09144
35	3.197109	0.00092	0.07874	0.023622	0.54864
36	3.707052	0.00114	0.00762	0.002223	0.03048
37	2.967521	0.000771	0.0254	0.008128	0.12192
38	2.847572	0.000698	0.03556	0.012277	0.1524
39	3.434764	0.001587	0.13208	0.03686	0.4572
40	2.833788	0.000694	0.00762	0.002807	0.03048
41	3.336133	0.001399	0.02794	0.008079	0.12192
42	2.822275	0.000998	0.0127	0.004233	0.06096
43	2.107213	0.000336	0.007486	0.003481	0.06096
44	3.383199	0.001329	0.02032	0.005737	0.09144
45	2.907781	0.002061	0.04572	0.014828	0.12192
46	1.889534	0.00022	0.01524	0.007464	0.12192
47	2.99272	0.001197	0.01016	0.003251	0.12192
48	2.530204	0.000537	0.01778	0.00686	0.09144
49	5.105931	0.002726	0.01778	0.003387	0.12192
50	3.31945	0.001369	0.01778	0.005141	0.09144
51	3.525388	0.002085	0.03048	0.008408	0.09144
52	3.348982	0.0014	0.0381	0.010886	0.1524
53	4.058634	0.002208	0.04318	0.010261	0.1524
54	2.982853	0.00193	0.02286	0.007414	0.12192
55	3.392375	0.00143	0.05588	0.015966	0.21336
56	3.310636	0.001237	0.06858	0.020072	0.39624
57	2.087325	0.00048	0.00508	0.0023	0.03048
58	3.126012	0.000872	0.02032	0.006252	0.06096
59	3.249691	0.001148	0.02794	0.008413	0.1524
60	3.451365	0.002473	0.04318	0.01205	0.12192
61	3.397407	0.001278	0.04318	0.012337	0.12192
62	2.845348	0.002189	0.04572	0.015455	0.18288
63	2.438513	0.001196	0.01016	0.003997	0.06096
64	4.307436	0.004524	0.12954	0.02933	0.27432
65	2.910188	0.000696	0.04572	0.015031	0.24384
66	2.822166	0.000658	0.08636	0.029609	0.27432
67	2.734607	0.000652	0.01524	0.005301	0.06096
68	2.469717	0.000561	0.01778	0.006883	0.09144
69	3.101382	0.000952	0.0254	0.007917	0.09144
70	2.774776	0.000596	0.0254	0.008709	0.21336
71	2.863096	0.000667	0.019221	0.007013	0.1524
72	2.773115	0.000737	0.02794	0.009718	0.09144
73	3.07906	0.000901	0.02032	0.006334	0.12192
74	3.187803	0.000781	0.06858	0.020834	0.27432

75	2.860444	0.000619	0.00508	0.001693	0.06096
76	4.599629	0.002869	0.018886	0.004779	0.113317
77	4.101377	0.003303	0.09144	0.021728	0.3048
78	3.454916	0.001698	0.03048	0.008506	0.06096
79	3.542861	0.001629	0.04318	0.011776	0.09144
80	3.137645	0.000922	0.0254	0.007716	0.09144
81	3.147966	0.000949	0.01524	0.004689	0.09144
82	3.559547	0.002662	0.0508	0.013699	0.12192
83	3.34827	0.00154	0.06096	0.017627	0.21336
84	3.020058	0.000786	0.028336	0.010429	0.203068
85	2.788757	0.000356	0.00508	0.001742	0.03048
86	2.950225	0.000717	0.00254	0.000824	0.03048
87	2.286728	0.000527	0.02286	0.009459	0.24384
88	2.362943	0.000427	0.00762	0.0031	0.09144
89	2.013347	0.000442	0.00508	0.002391	0.06096
90	3.423784	0.001331	0.04318	0.012192	0.21336
91	2.62382	0.000761	0.041624	0.015702	0.09144
92	3.423383	0.00129	0.03048	0.008877	0.12192
93	5.149343	0.002234	0.033708	0.007232	0.09144
94	2.839783	0.000878	0.02286	0.007727	0.09144
95	2.180872	0.000592	0.01016	0.004433	0.06096
96	3.586815	0.002353	0.03048	0.008219	0.12192
97	2.105205	0.000442	0.01778	0.007759	0.12192
98	2.293041	0.000357	0.01016	0.004133	0.09144
99	5.689393	0.001922	0.11176	0.019309	0.24384
100	4.484357	0.00189	0.03302	0.007204	0.12192
101	3.546472	0.001414	0.1905	0.051955	0.4572
102	1.998622	0.000444	0.01016	0.004781	0.09144
103	2.325623	0.000526	0.05588	0.022731	0.1524
104	3.282938	0.001167	0.02794	0.008178	0.06096
105	2.772547	0.000691	0.0254	0.008835	0.1524
106	3.649311	0.002563	0.08636	0.022776	0.21336
107	3.091652	0.000846	0.01524	0.004689	0.03048
108	3.714718	0.002663	0.06604	0.017228	0.1524
109	2.339149	0.00047	0.01778	0.007233	0.12192
110	4.295219	0.003234	0.05334	0.012077	0.09144
111	3.48014	0.001633	0.02794	0.007708	0.06096
112	3.775842	0.001411	0.04826	0.012646	0.12192
113	3.13149	0.000825	0.020068	0.006252	0.06096
114	2.877941	0.000918	0.02794	0.009313	0.1524
115	3.057313	0.000946	0.0254	0.008021	0.1524
116	3.157526	0.000941	0.06096	0.018519	0.33528
117	4.494676	0.002515	0.06096	0.01326	0.12192

118	3.559719	0.001815	0.06096	0.016625	0.27432
119	3.051977	0.000863	0.01524	0.004813	0.06096
120	2.252884	0.000491	0.01524	0.006417	0.09144
121	2.68809	0.000708	0.01016	0.003586	0.06096
122	4.133132	0.001842	0.05842	0.013746	0.1524
123	3.154077	0.000933	0.0635	0.019291	0.27432
124	3.366737	0.001319	0.03302	0.009434	0.1524
125	3.380885	0.001238	0.02286	0.006455	0.09144
126	3.748365	0.003178	0.05588	0.014421	0.09144
127	3.251906	0.002699	0.04318	0.012794	0.1524
128	3.320088	0.001677	0.04572	0.013381	0.1524
129	2.098259	0.000331	0.0127	0.005644	0.06096
130	3.511068	0.002938	0.069187	0.020699	0.1524
131	3.412045	0.001931	0.04064	0.011475	0.18288
132	2.268575	0.000401	0.00762	0.003208	0.06096
133	2.930279	0.002808	0.07366	0.02389	0.27432
134	6.149925	0.003371	0.0635	0.01016	0.12192
135	3.345951	0.001226	0.03302	0.009548	0.21336
136	3.286724	0.0012	0.05588	0.016355	0.21336
137	2.614274	0.000585	0.01778	0.006565	0.06096
138	1.912664	0.000356	0.01778	0.008709	0.06096
139	1.926773	0.000492	0.00762	0.003658	0.06096
140	2.842334	0.000707	0.009742	0.003434	0.09144
141	2.718073	0.001435	0.0127	0.004417	0.09144
142	3.446947	0.001366	0.04826	0.013468	0.3048
143	4.720101	0.001157	0.03302	0.006832	0.12192
144	2.70409	0.00053	0.04572	0.01638	0.33528
145	3.537487	0.001264	0.02032	0.006235	0.12192
146	3.951139	0.003573	0.11684	0.028614	0.51816
147	3.137619	0.000913	0.02032	0.006173	0.06096
148	5.848723	0.001959	0.03302	0.005542	0.09144
149	2.49953	0.000604	0.01524	0.005806	0.1524
150	3.740331	0.002788	0.10414	0.026875	0.3048
151	2.664229	0.001833	0.036774	0.013447	0.1524
152	3.101373	0.000872	0.01778	0.005471	0.06096
153	3.209441	0.001268	0.03048	0.009144	0.24384
154	2.948239	0.000611	0.10414	0.034238	0.36576
155	2.685259	0.000482	0.01778	0.006369	0.12192
156	2.899724	0.000611	0.09652	0.032173	0.36576
157	4.969458	0.001613	0.07366	0.01449	0.27432
158	2.288818	0.000408	0.02794	0.011561	0.09144
159	2.432735	0.000722	0.01524	0.005996	0.06096
160	2.451719	0.00062	0.01524	0.006383	0.09144

161	3.228798	0.001033	0.03048	0.009144	0.1524
162	2.823709	0.000694	0.0254	0.008586	0.21336
163	3.538284	0.002333	0.07874	0.021601	0.27432
164	3.458799	0.001871	0.03556	0.009924	0.09144
165	2.896018	0.000643	0.02032	0.006773	0.06096
166	2.863103	0.000741	0.00762	0.00254	0.03048
167	4.334781	0.002552	0.03048	0.006837	0.12192
168	2.999876	0.001019	0.0254	0.008128	0.09144
169	3.177714	0.001163	0.06096	0.018288	0.12192
170	3.179575	0.00099	0.04318	0.014329	0.1524
171	3.500641	0.002174	0.04064	0.011211	0.12192
172	2.509106	0.000472	0.00508	0.001935	0.03048
173	2.776541	0.000535	0.003347	0.001742	0.03048
174	3.997624	0.00156	0.08382	0.02032	0.21336
175	3.484549	0.001421	0.04064	0.011211	0.12192
176	2.424787	0.000517	0.0254	0.009993	0.24384
177	3.000637	0.000775	0.01778	0.00569	0.12192
178	5.035037	0.003231	0.06096	0.011704	0.21336
179	5.916369	0.005019	0.14478	0.023964	0.24384
180	3.364358	0.001241	0.0762	0.022034	0.51816
181	2.258348	0.000627	0.01524	0.006306	0.06096
182	2.974761	0.00067	0.02032	0.00659	0.09144
183	3.491767	0.002327	0.02794	0.00762	0.12192
184	2.641968	0.000693	0.0254	0.009099	0.1524
185	3.316925	0.001506	0.0254	0.007345	0.09144
186	2.727946	0.000529	0.01778	0.006497	0.12192
187	3.085857	0.000784	0.01524	0.004689	0.06096
188	2.661841	0.000375	0.05842	0.020927	0.48768
189	3.487968	0.001714	0.03302	0.009109	0.09144
190	3.700911	0.004661	0.1651	0.04307	0.42672
191	2.764006	0.002657	0.02794	0.009718	0.12192
192	2.099983	0.000292	0.01524	0.006773	0.06096
193	2.884658	0.001201	0.02387	0.008722	0.1524
194	2.878808	0.001703	0.06096	0.020042	0.12192
195	6.055221	0.005082	0.01016	0.001648	0.09144
P2					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	3.479559	0.001614	0.03048	0.008506	0.27432
2	2.616051	0.001199	0.0254	0.009378	0.12192
3	6.674283	0.003373	0.07366	0.010846	0.09144
4	3.53279	0.001399	0.02286	0.006235	0.09144
5	4.924386	0.001914	0.03302	0.006496	0.06096

6	3.327522	0.001531	0.02032	0.005876	0.12192
7	2.686442	0.001653	0.03556	0.012738	0.06096
8	3.162805	0.001489	0.03048	0.00926	0.1524
9	2.560585	0.001319	0.04572	0.017145	0.1524
10	2.087057	0.000544	0.02032	0.009031	0.09144
11	2.446053	0.000551	0.02286	0.008994	0.1524
12	2.872363	0.00144	0.02794	0.009313	0.06096
13	2.934585	0.000555	0.02032	0.00659	0.09144
14	4.556273	0.001272	0.03048	0.006474	0.06096
15	3.509915	0.002037	0.061727	0.017762	0.36576
16	4.688889	0.002076	0.04572	0.009459	0.24384
17	1.34437	0.000218	0.00508	0.004746	0.06096
18	2.026363	0.000308	0.02032	0.009378	0.12192
19	3.657844	0.001409	0.0381	0.010048	0.09144
20	2.827436	0.000516	0.00762	0.002576	0.06096
21	1.732611	0.00027	0.02032	0.011776	0.09144
22	2.237491	0.000313	0.057446	0.026033	0.42672
23	5.140774	0.00495	0.20066	0.03792	0.4572
24	3.350766	0.00248	0.07366	0.021299	0.21336
25	2.036668	0.000541	0.0254	0.011723	0.12192
26	3.406291	0.001029	0.02794	0.007889	0.1524
27	2.060039	0.000298	0.00254	0.001172	0.03048
28	5.467153	0.002	0.034395	0.006615	0.12192
29	5.246598	0.001364	0.0254	0.004762	0.1524
30	1.779897	0.000274	0.00762	0.004439	0.03048
31	2.908271	0.001742	0.03556	0.011691	0.18288
32	2.45317	0.001381	0.04318	0.016715	0.09144
33	2.183941	0.000543	0.02032	0.008709	0.21336
34	2.445688	0.000727	0.01778	0.006883	0.1524
35	1.705717	0.000239	0.00254	0.001385	0.03048
36	1.946856	0.000258	0.00762	0.003658	0.03048
37	3.005087	0.000496	0.00508	0.001845	0.03048
38	4.04216	0.00159	0.01524	0.003658	0.09144
39	4.325745	0.002255	0.08382	0.018801	0.27432
40	2.262898	0.000461	0.0127	0.005255	0.06096
41	3.22822	0.001085	0.02032	0.006021	0.09144
42	3.197345	0.001708	0.08128	0.024693	0.33528
43	3.936982	0.000577	0.01778	0.004354	0.06096
44	4.091618	0.001629	0.04318	0.010261	0.18288
45	2.616463	0.001174	0.02794	0.01016	0.27432
46	2.931126	0.000524	0.06096	0.020361	0.24384
47	2.893959	0.000521	0.0127	0.004233	0.12192
48	1.630167	0.000201	0.00508	0.002835	0.03048

49	2.862057	0.000518	0.00254	0.000835	0.03048
50	2.821161	0.000484	0.04572	0.015455	0.33528
51	2.147556	0.000294	0.00762	0.003325	0.09144
52	3.245938	0.000643	0.0254	0.007526	0.27432
53	3.140336	0.000634	0.04318	0.013286	0.18288
54	2.210343	0.000341	0.01016	0.004278	0.09144
55	3.946613	0.001068	0.02794	0.006842	0.1524
56	3.341544	0.001669	0.0254	0.007345	0.09144
57	3.708163	0.002194	0.0635	0.016565	0.24384
58	3.781928	0.001115	0.05842	0.015008	0.12192
59	3.175689	0.000698	0.03302	0.009906	0.09144
60	3.379383	0.00166	0.05334	0.01524	0.24384
61	2.857749	0.001995	0.02794	0.009445	0.12192
62	2.109073	0.000434	0.02032	0.009031	0.1524
63	3.075365	0.000872	0.00254	0.000792	0.03048
64	2.974431	0.000904	0.07874	0.025537	0.4572
65	2.325569	0.000351	0.03302	0.013837	0.27432
66	2.793252	0.000513	0.00508	0.001742	0.03048
67	3.597035	0.000977	0.05842	0.015754	0.24384
68	36.89737	0.008939	0.20137	0.005535	0.24384
69	3.295643	0.001253	0.008265	0.004089	0.09144
70	7.497014	0.002224	0.02794	0.003664	0.06096
71	3.532157	0.001338	0.0254	0.007007	0.09144
72	5.965947	0.001332	0.04064	0.006681	0.1524
73	2.526305	0.000512	0.00762	0.002857	0.06096
74	3.116207	0.000546	0.00508	0.001563	0.03048
75	2.975379	0.001263	0.014639	0.006813	0.1524
76	2.824258	0.000722	0.00508	0.00205	0.03048
77	3.420439	0.000851	0.013807	0.004708	0.12192
78	2.202045	0.00034	0.01016	0.004354	0.12192
79	2.806731	0.000453	0.01016	0.00354	0.12192
80	2.483753	0.000425	0.03556	0.013547	0.36576
81	2.095472	0.000301	0.01016	0.004601	0.06096
82	2.218148	0.000372	0.011923	0.005443	0.03048
83	3.372181	0.001019	0.03302	0.009434	0.12192
84	3.762656	0.001266	0.02286	0.005899	0.09144
85	2.916263	0.00104	0.02286	0.007516	0.09144
86	2.416245	0.000359	0.00762	0.002998	0.03048
87	3.72126	0.001232	0.0254	0.006626	0.12192
88	2.364987	0.00039	0.01778	0.007233	0.06096
89	3.20174	0.001248	0.02032	0.006173	0.12192
90	2.9348	0.000738	0.01524	0.00501	0.06096
91	5.246574	0.002459	0.0381	0.007088	0.1524

92	3.725919	0.001964	0.0254	0.006555	0.3048
93	3.255311	0.002245	0.0508	0.015052	0.12192
94	2.886834	0.002049	0.05334	0.01778	0.12192
95	2.614914	0.000713	0.01778	0.006565	0.09144
96	3.942804	0.003466	0.08128	0.019905	0.21336
97	2.401808	0.000273	0.009827	0.004179	0.06096
98	2.484593	0.000405	0.01524	0.005899	0.12192
99	2.896024	0.000491	0.03048	0.01016	0.12192
100	8.277263	0.002435	0.04826	0.005734	0.1524
101	2.198071	0.000309	0.02794	0.012715	0.1524
102	2.588981	0.000434	0.00762	0.002814	0.09144
103	2.924837	0.000585	0.0127	0.004175	0.09144
104	4.919683	0.002154	0.12954	0.025694	0.51816
105	4.032519	0.001411	0.04318	0.010363	0.24384
106	2.566346	0.000402	0.00508	0.001876	0.06096
107	2.795194	0.000482	0.01524	0.005152	0.06096
108	1.821741	0.000247	0.01524	0.007782	0.12192
109	2.951918	0.000587	0.0381	0.012526	0.36576
110	5.119713	0.001232	0.03302	0.00634	0.09144
111	3.499756	0.001318	0.02032	0.005606	0.12192
112	3.085534	0.000598	0.00254	0.000792	0.03048
113	5.376767	0.00344	0.10922	0.019858	0.21336
114	4.008855	0.00214	0.03556	0.008621	0.1524
115	3.925685	0.001097	0.0254	0.006485	0.12192
116	1.721334	0.000238	0.00762	0.004741	0.06096
117	1.89049	0.000222	0.02794	0.01397	0.1524
118	2.554097	0.000462	0.0127	0.004763	0.12192
119	3.813009	0.001666	0.0635	0.016213	0.21336
120	2.724107	0.00141	0.03556	0.012369	0.1524
121	2.65548	0.000714	0.03556	0.012931	0.42672
122	2.796303	0.000482	0.02032	0.006967	0.21336
123	2.851364	0.000487	0.02794	0.009313	0.24384
124	3.558385	0.003016	0.10922	0.029787	0.3048
125	3.471377	0.002442	0.067575	0.019139	0.3048
126	3.106272	0.000783	0.02286	0.007034	0.18288
127	3.826862	0.002617	0.07366	0.018609	0.3048
128	3.360528	0.00129	0.03302	0.009434	0.1524
129	3.022102	0.000837	0.01778	0.005615	0.21336
130	3.23432	0.001617	0.0381	0.011289	0.1524
131	3.448119	0.001034	0.02286	0.00638	0.06096
132	2.471008	0.00143	0.06096	0.023597	0.18288
133	2.465924	0.001074	0.01778	0.006883	0.09144
134	2.998283	0.000652	0.01016	0.003251	0.06096

135	2.374402	0.000477	0.00762	0.003048	0.06096
136	4.47126	0.001215	0.01778	0.003879	0.12192
137	3.399992	0.000869	0.01524	0.004354	0.06096
138	5.201498	0.000831	0.00762	0.001429	0.03048
139	2.271471	0.000377	0.01778	0.008021	0.09144
140	6.65285	0.002793	0.017873	0.003049	0.18288
141	2.830525	0.000577	0.0127	0.004293	0.09144
142	2.265589	0.000828	0.03556	0.014465	0.24384
143	2.53096	0.001191	0.03048	0.01143	0.09144
144	2.962285	0.000618	0.0127	0.004492	0.09144
145	2.724991	0.000476	0.01016	0.003586	0.06096
146	5.017754	0.00197	0.04064	0.007866	0.09144
147	4.877151	0.001786	0.0381	0.00762	0.18288
148	2.885328	0.000953	0.0254	0.008467	0.09144
149	2.867333	0.037463	0.01524	0.005152	0.09144
150	2.616277	0.000528	0.00762	0.002771	0.06096
151	1.82804	0.005916	0.00762	0.004366	0.06096
152	2.375865	0.000479	0.00508	0.002032	0.06096
153	2.532808	0.000216	0.0127	0.004838	0.09144
154	3.630294	0.001224	0.03302	0.008709	0.18288
155	2.393031	0.000334	0.01524	0.005996	0.18288
156	2.695213	0.000718	0.0254	0.008965	0.1524
157	1.554112	0.000658	0.00508	0.002974	0.06096
158	2.573047	0.000215	0.01016	0.005436	0.104044
159	1.075767	2.48E-05	0.00254	0.002032	0.03048
160	2.751141	0.000235	0.00762	0.00265	0.06096
161	4.679721	0.000399	0.01016	0.00212	0.09144
162	2.565396	0.000219	0.0127	0.005926	0.074487
163	18.06531	0.012618	0.09398	0.005161	0.27432
164	4.236425	0.015894	0.02286	0.005275	0.1524
165	0.809355	-6.19E-05	0.01016	0.010602	0.06096
166	4.406237	0.00127	0.04318	0.009508	0.24384
167	3.063894	0.001871	0.01778	0.005542	0.09144
168	2.143796	0.000322	0.00254	0.001129	0.03048
169	5.980735	0.001766	0.02794	0.004593	0.21336
170	2.900029	0.000488	0.00762	0.00254	0.06096
171	2.607706	0.000497	0.01016	0.003695	0.09144
172	2.268026	0.000446	0.00254	0.001577	0.03048
173	3.71699	0.001986	0.041301	0.011351	0.12192
174	4.037377	0.001383	0.0254	0.006158	0.09144
175	2.530936	0.000978	0.02032	0.00762	0.1524
176	1.998054	0.000202	0.01016	0.005379	0.06096

177	2.645778	0.001605	0.001913	0.001271	0.053435
178	3.161607	0.000879	0.01524	0.00463	0.06096
179	2.856687	0.000518	0.01016	0.003387	0.12192
180	2.82015	0.000707	0.0127	0.004293	0.06096
181	2.34086	0.00023	0.00508	0.002583	0.03048
182	3.256466	0.00214	0.04826	0.014299	0.09144
183	4.855069	0.002737	0.05334	0.010668	0.09144
184	3.377312	0.001986	0.00508	0.001451	0.06096
185	2.097057	0.000262	0.00508	0.002305	0.06096
186	3.089524	0.000751	0.01524	0.00475	0.1524
187	3.300173	0.000784	0.02286	0.006691	0.09144
188	3.888013	0.002146	0.05334	0.013335	0.18288
189	3.528771	0.002324	0.08636	0.023899	0.4572
190	2.38347	0.001114	0.02794	0.010993	0.1524
191	2.373753	0.000249	0.01524	0.006096	0.18288
192	4.519632	0.000779	0.01016	0.002177	0.06096
193	3.367453	0.002238	0.10922	0.031206	1.00584
194	2.892749	0.000521	0.00254	0.000847	0.03048
195	3.011218	0.000592	0.11684	0.037447	0.54864
196	3.136733	0.000613	0.05588	0.017194	0.18288
197	2.203795	0.000279	0.00762	0.003266	0.03048
198	3.472108	0.000936	0.04572	0.012612	0.1524
199	5.179573	0.001469	0.05334	0.01008	0.27432
200	3.651378	0.000647	0.0127	0.003387	0.03048
201	3.546087	0.001223	0.02794	0.007966	0.09144
202	3.591326	0.001536	0.03302	0.008904	0.18288
203	4.028899	0.001655	0.02032	0.004877	0.12192
204	1.712828	0.000268	0.00762	0.004156	0.06096
205	5.448868	0.002601	0.04572	0.00825	0.09144
206	2.215974	0.000627	0.0127	0.005255	0.06096
207	3.077319	0.002213	0.04064	0.012838	0.09144
208	3.480832	0.002201	0.03048	0.008506	0.1524
209	2.586234	0.00083	0.0127	0.004689	0.06096
210	2.361227	0.000506	0.01016	0.004133	0.06096
211	3.539116	0.002253	0.05588	0.01524	0.09144
212	3.656562	0.001653	0.02032	0.005419	0.1524
213	3.123403	0.000837	0.01778	0.005471	0.09144
214	2.481169	0.000426	0.030571	0.013331	0.27432
215	2.681529	0.000466	0.05842	0.020619	0.54864
216	3.00036	0.000563	0.0127	0.004064	0.1524
217	2.901195	0.000524	0.0381	0.012526	0.1524
218	5.412073	0.000928	0.02794	0.005248	0.06096
219	6.086982	0.001297	0.04826	0.007773	0.12192

220	3.328004	0.001316	0.03302	0.009548	0.21336
221	3.435652	0.001756	0.03556	0.009924	0.1524
222	6.208741	0.001517	0.02794	0.004412	0.09144
223	2.830264	0.002319	0.04064	0.013737	0.18288
224	2.973016	0.001504	0.0254	0.008128	0.06096
225	2.195979	0.000236	0.03302	0.014469	0.12192
226	2.055528	0.000337	0.01524	0.007476	0.06096
227	4.446758	0.001294	0.0381	0.008313	0.27432
228	3.118332	0.001353	0.03048	0.009378	0.1524
229	2.975459	0.000589	0.01778	0.00569	0.09144
230	4.299815	0.001312	0.02794	0.006326	0.09144
231	3.574356	0.001859	0.07366	0.019863	0.33528
232	2.406758	0.000388	0.01016	0.003997	0.09144
233	3.467236	0.000925	0.01778	0.004962	0.09144
234	3.529527	0.001429	0.02794	0.007708	0.12192
235	3.722548	0.00175	0.03556	0.009177	0.12192
236	3.932217	0.001707	0.0381	0.009427	0.12192
237	3.08285	0.000598	0.02286	0.007125	0.09144
238	3.690664	0.000924	0.03556	0.009378	0.06096
239	3.233049	0.000794	0.03048	0.009079	0.1524
240	3.516185	0.000666	0.02794	0.00762	0.24384
241	3.22353	0.000793	0.00508	0.001505	0.03048
242	3.780348	0.000658	0.01778	0.004749	0.09144
243	3.337416	0.000742	0.0127	0.003672	0.09144
244	3.658613	0.000952	0.03048	0.008039	0.09144
245	2.153051	0.000336	0.0127	0.005542	0.09144
246	4.064801	0.001444	0.04064	0.009657	0.18288
247	7.500489	0.002316	0.04064	0.00533	0.12192
248	3.846367	0.001151	0.0254	0.006484	0.09144
249	3.457665	0.001179	0.02286	0.00638	0.06096
250	3.144786	0.001366	0.02286	0.006945	0.09144
251	3.094367	0.001536	0.03048	0.009378	0.09144
252	2.893104	0.001862	0.0508	0.016701	0.18288
253	1.454085	0.000249	0.00508	0.003126	0.03048
254	2.571522	0.000402	0.0127	0.004763	0.06096
255	2.736471	0.000422	0.02286	0.008068	0.21336
256	2.577403	0.000799	0.00508	0.001876	0.06096
257	3.188421	0.000973	0.03048	0.009385	0.3048
258	1.720386	0.000269	0.00762	0.004156	0.03048
259	3.872594	0.000848	0.03302	0.008573	0.1524
260	3.211505	0.000579	0.04318	0.012954	0.18288
261	4.174761	0.00121	0.02794	0.00651	0.09144
262	3.703822	0.001657	0.03556	0.009277	0.18288

263	4.043389	0.000798	0.02032	0.004877	0.06096
264	3.316328	0.000783	0.0127	0.003672	0.06096
265	2.896297	0.000552	0.01016	0.00334	0.03048
266	2.719518	0.000567	0.00762	0.002689	0.09144
267	2.7582	0.000525	0.01778	0.006184	0.09144
268	2.113025	0.000353	0.0381	0.016933	0.33528
269	2.250678	0.000344	0.02794	0.011764	0.18288
270	3.705617	0.000712	0.00254	0.000663	0.03048
271	3.07421	0.000598	0.03048	0.009625	0.09144
272	3.701962	0.001169	0.02794	0.007289	0.06096
273	3.564231	0.001767	0.04826	0.013162	0.1524
274	2.680188	0.00127	0.03556	0.012738	0.06096
275	3.494235	0.000595	0.01016	0.002803	0.06096
276	2.524736	0.000454	0.00254	0.000952	0.03048
277	5.360748	0.001745	0.0254	0.004583	0.06096
278	3.90948	0.001156	0.012911	0.003797	0.033015
279	7.900599	0.00254	0.059836	0.008134	0.24384
280	2.819057	0.001069	0.01778	0.006455	0.06096
281	2.211421	0.000469	0.01778	0.008069	0.09144
282	2.276508	0.000865	0.03048	0.012834	0.12192
283	3.35164	0.001863	0.04826	0.014085	0.21336
284	2.45249	0.002034	0.07874	0.03048	0.24384
285	3.270362	0.001132	0.03556	0.010536	0.1524
286	5.36569	0.004715	0.147908	0.027425	0.21336
287	2.964479	0.001968	0.05334	0.017299	0.1524
288	2.865311	0.000593	0.01016	0.00381	0.06096
289	1.992301	0.000994	0.07874	0.037795	0.54864
290	2.754447	0.000874	0.03556	0.012192	0.09144
291	3.59202	0.002298	0.0508	0.013815	0.18288
292	2.062437	0.000633	0.04064	0.019	0.27432
293	2.819755	0.00186	0.05842	0.02003	0.3048
294	2.602965	0.0019	0.04318	0.015943	0.1524
295	3.403806	0.000579	0.03048	0.008606	0.27432
296	3.433547	0.001741	0.04826	0.013468	0.27432
297	4.683994	0.001239	0.02794	0.005831	0.12192
298	1.92383	0.000261	0.07874	0.038567	0.64008
299	3.345756	0.00135	0.06096	0.017212	0.70104
300	1.978724	0.000265	0.03556	0.016734	0.36576
301	3.03254	0.000815	0.03556	0.011229	0.39624
302	3.381687	0.001812	0.07112	0.02032	0.54864
303	1.955709	0.0003	0.00508	0.002438	0.03048
304	3.395915	0.000594	0.0127	0.003771	0.09144
305	2.361162	0.000293	0.00254	0.001016	0.03048

306	2.76929	0.000358	0.008332	0.003817	0.080471
307	3.165569	0.000575	0.00508	0.001543	0.03048
308	3.312385	0.000933	0.02032	0.005947	0.09144
309	2.677768	0.00137	0.02286	0.008189	0.09144
310	2.818191	0.000383	0.00508	0.001717	0.03048
311	2.72385	0.000476	0.01016	0.003586	0.03048
312	3.633443	0.000602	0.00762	0.002032	0.03048
313	2.555181	0.000155	0.004062	0.001905	0.03048
314	4.099484	0.001707	0.03302	0.007846	0.12192
315	3.7763	0.001153	0.04064	0.010488	0.1524
316	3.235816	0.001312	0.0127	0.00381	0.12192
317	1.565945	0.000238	0.00328	0.002974	0.03048
318	2.019497	0.000264	0.00254	0.001683	0.03048
319	3.295464	0.001043	0.045995	0.014125	0.33528
320	4.733596	0.001318	0.05334	0.010942	0.21336
321	3.57442	0.002753	0.09906	0.026713	0.24384
322	3.524205	0.001949	0.01524	0.004156	0.12192
323	3.331103	0.002907	0.11176	0.032316	0.4572
324	2.331649	0.000474	0.00762	0.0031	0.06096
325	2.400992	0.00033	0.02032	0.008272	0.1524
326	3.24507	0.001038	0.04064	0.012041	0.09144
327	4.21915	0.001	0.0254	0.005862	0.12192
328	4.178752	0.001972	0.03048	0.00715	0.09144
329	2.246524	0.000618	0.01016	0.004278	0.09144
330	2.114226	0.000263	0.00762	0.003387	0.03048
331	3.063074	0.002578	0.04826	0.014849	0.27432
332	3.825	0.001078	0.01778	0.004492	0.06096
333	3.577459	0.001651	0.03556	0.009589	0.21336
334	3.486184	0.000876	0.0127	0.003842	0.06096
335	1.749973	0.000433	0.0127	0.006976	0.06096
336	5.358761	0.001909	0.0254	0.004618	0.06096
337	2.358121	0.000553	0.01778	0.007233	0.09144
338	3.031769	0.001463	0.04064	0.012834	0.12192
339	1.592356	0.00017	0.00254	0.001487	0.03048
340	3.010853	0.000723	0.03556	0.011379	0.12192
341	2.494102	0.000388	0.0127	0.004838	0.12192
342	2.247446	0.000283	0.01778	0.007486	0.09144
343	3.532387	0.000972	0.03556	0.009698	0.09144
344	2.936855	0.000622	0.00762	0.002505	0.06096
345	2.446745	0.000461	0.01016	0.003933	0.06096
346	2.817288	0.000515	0.01016	0.003483	0.03048
347	2.679997	0.001295	0.10668	0.038214	0.82296
348	2.998541	0.000652	0.0127	0.004064	0.12192

349	4.383858	0.001258	0.06858	0.01524	0.24384
350	3.442046	0.001299	0.0381	0.010633	0.36576
351	4.674004	0.002113	0.13208	0.027565	0.4572
352	3.098323	0.001732	0.02032	0.006252	0.06096
353	4.282936	0.00192	0.04572	0.01045	0.09144
354	3.943836	0.001877	0.01016	0.002488	0.03048
355	2.675984	0.001966	0.0381	0.013648	0.09144
356	2.579427	0.000954	0.0127	0.004763	0.06096
357	2.887862	0.00197	0.03048	0.010354	0.12192
358	2.835317	0.000484	0.01524	0.005152	0.09144
359	3.51782	0.001025	0.0127	0.003464	0.06096
360	2.798463	0.001597	0.02032	0.006967	0.1524
361	4.964795	0.00253	0.04572	0.008994	0.18288
362	1.37769	0.000206	0.00508	0.003473	0.06096
363	2.243223	0.000451	0.006017	0.003208	0.03048
364	4.569193	0.001192	0.01778	0.003776	0.09144
365	2.83348	0.00057	0.00762	0.002576	0.03048
366	2.322458	0.000229	0.00254	0.001033	0.03048
367	2.29761	0.000366	0.01016	0.004133	0.06096
368	2.26081	0.000399	0.00254	0.001069	0.03048
369	3.124627	0.000572	0.00508	0.001563	0.06096
370	3.049575	0.000662	0.0254	0.008021	0.09144
371	2.496666	0.000365	0.037864	0.014739	0.24384
372	3.247531	0.000753	0.0381	0.011622	0.09144
373	2.637642	0.000348	0.0127	0.004549	0.06096
374	2.882776	0.000524	0.02032	0.006773	0.1524
375	3.518151	0.001063	0.0508	0.014014	0.27432
376	2.2238	0.000342	0.01524	0.006417	0.06096
377	2.951148	0.000526	0.0254	0.008238	0.12192
378	2.861953	0.000498	0.02286	0.00762	0.1524
379	3.786796	0.002194	0.07112	0.018158	0.21336
380	1.766185	0.000334	0.00508	0.00265	0.03048
381	3.778838	0.001542	0.0508	0.01297	0.18288
382	3.462649	0.001027	0.02286	0.006306	0.06096
383	3.703158	0.001687	0.0254	0.006626	0.09144
384	2.771974	0.000724	0.01524	0.005301	0.12192
385	2.644322	0.00175	0.04318	0.015467	0.24384
386	2.816508	0.002669	0.04572	0.015455	0.12192
387	3.05307	0.000565	0.01524	0.00475	0.06096
388	2.655093	0.001878	0.0254	0.008965	0.12192
389	2.725772	0.000434	0.02286	0.007951	0.12192
390	2.15951	0.00055	0.00684	0.003325	0.06096
391	3.471404	0.00182	0.03048	0.008506	0.21336

392	3.60072	0.001322	0.01778	0.004795	0.12192
393	2.678232	0.00157	0.05334	0.019107	0.21336
394	3.270587	0.001151	0.02794	0.008279	0.09144
395	2.979787	0.000537	0.03048	0.009885	0.09144
396	3.456564	0.001997	0.04064	0.011211	0.1524
397	2.730208	0.000419	0.02032	0.007172	0.09144
398	3.182759	0.000881	0.03302	0.010031	0.33528
399	2.874014	0.000546	0.0127	0.004233	0.09144
400	2.063008	0.000301	0.02286	0.010551	0.1524
401	5.304954	0.001449	0.08636	0.015822	0.18288
402	2.137387	0.000243	0.011218	0.00588	0.09144
403	2.586204	0.000448	0.01016	0.003751	0.09144
404	7.750695	0.002338	0.05842	0.007379	0.1524
405	1.873154	0.000253	0.00428	0.00254	0.03048
406	3.895131	0.001216	0.02032	0.00508	0.06096
407	3.149008	0.001427	0.02286	0.006945	0.1524
408	2.344891	0.000344	0.00254	0.001016	0.03048
409	2.153613	0.000373	0.00254	0.001129	0.03048
410	3.026387	0.000551	0.0127	0.004064	0.1524
411	3.645574	0.00128	0.0381	0.010048	0.24384
412	2.757781	0.00076	0.02794	0.009718	0.21336
413	5.647387	0.001045	0.01016	0.001754	0.12192
414	2.725948	0.000484	0.00762	0.002689	0.06096
415	4.777305	0.002244	0.04318	0.008782	0.18288
416	3.72564	0.001321	0.03302	0.008521	0.3048
417	1.780422	0.000139	0.00254	0.001904	0.03048
418	1.728503	0.0003	0.00254	0.001355	0.03048
419	1.737008	0.000259	0.0127	0.006773	0.09144
420	2.752702	0.000479	0.02032	0.007068	0.21336
421	3.39358	0.001173	0.03556	0.01004	0.3048
422	4.129542	0.004275	0.13462	0.031675	0.51816
423	1.731408	0.000305	0.04064	0.021675	0.36576
424	2.836291	0.000638	0.01778	0.00601	0.06096
425	3.583033	0.000855	0.03302	0.008904	0.06096
426	3.24364	0.000875	0.00254	0.000743	0.03048
427	3.007809	0.000552	0.01524	0.004877	0.06096
428	4.953311	0.001828	0.06858	0.013491	0.6096
429	3.47744	0.00112	0.02032	0.005671	0.09144
430	4.780054	0.002715	0.07112	0.014465	0.21336
431	2.566939	0.000719	0.00762	0.002858	0.03048
432	1.969422	0.000263	0.01016	0.004877	0.09144
433	3.73462	0.00242	0.04572	0.011799	0.18288
434	2.755198	0.000515	0.00254	0.000883	0.03048

435	3.424765	0.000756	0.02032	0.005737	0.09144
436	4.101438	0.002606	0.04064	0.009657	0.09144
437	4.031181	0.002183	0.0381	0.009144	0.09144
438	5.380126	0.001608	0.0381	0.006927	0.06096
439	1.508757	0.000153	0.00762	0.004689	0.06096
440	2.932495	0.001423	0.04318	0.014196	0.21336
441	2.59221	0.000402	0.0127	0.004689	0.09144
442	2.281574	0.000408	0.0254	0.01051	0.1524
443	2.962896	0.000497	0.03048	0.009885	0.1524
444	3.497087	0.001914	0.08382	0.023123	0.24384
445	3.136473	0.002023	0.00762	0.002479	0.06096
446	2.758872	0.001875	0.02032	0.007068	0.24384
447	2.63817	0.000465	0.0508	0.018473	0.6096
448	1.819047	0.000229	0.00254	0.001297	0.03048
449	1.509186	0.000251	0.00028	0.003132	0.06432
450	2.362468	0.000337	0.06604	0.026416	0.48768
451	3.393825	0.000872	0.0508	0.014514	0.42672
452	3.321157	0.001084	0.03048	0.008813	0.24384
453	5.081597	0.001074	0.01778	0.003414	0.03048
454	3.734745	0.001385	0.03556	0.009277	0.21336
455	3.399613	0.00207	0.0508	0.014177	0.36576
456	4.007881	0.003859	0.08128	0.019704	0.1524
457	3.661212	0.001532	0.01524	0.004019	0.06096
458	2.899302	0.001859	0.0381	0.012526	0.18288
459	2.579217	0.001467	0.03556	0.01313	0.1524
460	2.996646	0.000587	0.00508	0.001626	0.03048
461	5.197913	0.001541	0.0254	0.004762	0.06096
462	2.450719	0.001312	0.04826	0.018988	0.24384
463	3.323035	0.00211	0.0381	0.011017	0.1524
464	2.01035	0.000468	0.01016	0.004781	0.06096
465	2.867983	0.001555	0.0508	0.016701	0.3048
466	5.844391	0.003375	0.07366	0.012363	0.12192
467	1.804174	0.000209	0.00254	0.001297	0.03048
468	3.14624	0.000558	0.00762	0.002315	0.09144
469	2.086044	0.000301	0.00762	0.003988	0.03048
470	3.632187	0.001499	0.03302	0.008805	0.18288
471	2.247389	0.000337	0.00762	0.003208	0.06096
472	2.41657	0.000267	0.00254	0.000999	0.03048
473	3.215452	0.002593	0.05334	0.015962	0.24384
474	2.179234	0.00031	0.00254	0.001089	0.03048
475	5.746464	0.00263	0.0635	0.010809	0.24384
476	2.108153	0.000314	0.02794	0.012418	0.24384
477	4.35555	0.003129	0.02032	0.004516	0.21336

478	2.60178	0.000628	0.0127	0.004689	0.12192
479	2.051444	0.000307	0.00762	0.003767	0.06096
480	2.207044	0.00031	0.04064	0.017417	0.42672
481	2.860692	0.000442	0.03556	0.011853	0.18288
482	3.461531	0.000935	0.0635	0.017517	0.27432
483	6.151637	0.001957	0.07366	0.011708	0.1524
484	4.164803	0.00139	0.00762	0.001776	0.06096
485	2.689407	0.001269	0.02794	0.009861	0.12192
486	3.455288	0.00188	0.03556	0.009924	0.24384
487	2.896361	0.000482	0.03302	0.011007	0.21336
488	2.008667	0.000286	0.00762	0.003517	0.06096
489	1.699037	0.000226	0.0127	0.007271	0.06096
490	2.364004	0.000506	0.02794	0.011365	0.21336
491	3.184851	0.00082	0.03302	0.010031	0.21336
492	2.414768	0.000419	0.03302	0.012991	0.24384
493	4.034207	0.002572	0.11176	0.026822	0.67056
494	2.188791	0.000334	0.00508	0.002177	0.03048
495	2.428769	0.000368	0.02794	0.010993	0.33528
496	3.440554	0.000598	0.03048	0.008506	0.21336
497	5.736676	0.003029	0.13208	0.022642	0.42672
498	2.288987	0.00035	0.02286	0.009299	0.1524
499	3.502416	0.001851	0.03556	0.009698	0.24384
500	3.619245	0.003357	0.09398	0.025061	0.48768
501	3.375653	0.001791	0.03302	0.009678	0.1524
502	3.672652	0.00154	0.02286	0.006029	0.12192
503	3.889241	0.001901	0.0254	0.00635	0.12192
504	2.463199	0.001205	0.0254	0.009832	0.12192
505	3.33844	0.000864	0.01524	0.004407	0.06096
506	3.024394	0.000512	0.0127	0.004276	0.06096
507	2.810757	0.000565	0.0127	0.004293	0.09144
508	6.132429	0.001158	0.02032	0.003251	0.06096
509	2.770282	0.000526	0.01524	0.005301	0.09144
510	2.608829	0.000314	0.01524	0.005542	0.1524
511	2.924235	0.000559	0.03556	0.011533	0.1524
512	3.110244	0.000581	0.02286	0.007125	0.21336
513	4.880391	0.002189	0.14478	0.028956	0.73152
514	3.054846	0.000819	0.04064	0.013149	0.3048
515	2.429619	0.000603	0.04318	0.016989	0.33528
516	4.028486	0.001933	0.04572	0.010973	0.21336
517	2.741016	0.000522	0.01524	0.005545	0.1524
518	2.645593	0.000409	0.0254	0.01204	0.18288
519	4.221121	0.001006	0.07874	0.018171	0.54864
520	6.180236	0.001624	0.04064	0.006459	0.3048

521	3.292356	0.00086	0.01524	0.00446	0.09144
522	2.324102	0.000288	0.026519	0.011882	0.21336
523	3.254813	0.001101	0.04826	0.014299	0.21336
524	2.990471	0.000621	0.01016	0.003295	0.03048
525	5.546806	0.003534	0.0889	0.015688	0.24384
526	3.536816	0.001506	0.01778	0.004849	0.18288
527	2.732333	0.000921	0.01524	0.005379	0.06096
528	1.96735	0.000224	0.00254	0.001195	0.03048
529	3.791542	0.001249	0.01778	0.00454	0.06096
530	2.666669	0.001873	0.03048	0.010758	0.12192
531	2.361327	0.000303	0.0127	0.00508	0.12192
532	3.406003	0.000963	0.0127	0.003586	0.09144
533	2.39363	0.000601	0.01524	0.006096	0.09144
534	3.127028	0.000754	0.01524	0.004689	0.06096
535	3.291699	0.000677	0.01016	0.002974	0.06096
536	2.694599	0.001231	0.02032	0.007279	0.06096
537	3.05907	0.000916	0.04572	0.014438	0.51816
538	3.610988	0.002279	0.05334	0.014224	0.21336
539	2.755434	0.00128	0.0381	0.013252	0.1524
540	3.429603	0.000597	0.0508	0.014177	0.21336
541	3.232932	0.001179	0.00508	0.001524	0.03048
542	2.416052	0.000511	0.00254	0.000999	0.03048
543	3.141751	0.001714	0.00254	0.000772	0.03048
544	2.449541	0.000608	0.01524	0.005996	0.1524
545	4.507366	0.002444	0.03302	0.007139	0.1524

P3

Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	4.990772	0.001646	0.04572	0.008921	0.09144
2	4.2767	0.001225	0.03556	0.008051	0.1524
3	4.235445	0.001272	0.01778	0.004026	0.09144
4	6.195015	0.001749	0.02286	0.003633	0.06096
5	7.135351	0.001802	0.03048	0.004304	0.06096
6	4.490442	0.001437	0.02794	0.006096	0.09144
7	3.601959	0.000905	0.0254	0.006773	0.09144
8	2.478839	0.000152	0.00254	0.000983	0.03048
9	2.922961	0.00039	0.00254	0.000835	0.03048
10	2.484922	0.000528	0.00508	0.001905	0.03048
11	3.569358	0.000911	0.0127	0.003425	0.06096
12	2.746408	0.000418	0.01524	0.005301	0.09144
13	2.115899	0.000413	0.01524	0.006773	0.09144
14	4.58336	0.001344	0.02032	0.004316	0.12192
15	2.295835	0.000322	0.03048	0.015608	0.36576

16	3.764209	0.000719	0.01016	0.002622	0.09144
17	4.846558	0.001319	0.0508	0.01016	0.4572
18	4.086875	0.001263	0.05334	0.012774	0.18288
19	4.771526	0.001836	0.03302	0.006773	0.1524
20	4.490214	0.001561	0.03048	0.006531	0.1524
21	4.885499	0.001299	0.03302	0.006604	0.12192
22	4.329387	0.001985	0.04826	0.010825	0.09144
23	3.037176	0.000365	0.00254	0.000879	0.03048
24	5.649503	0.002054	0.04064	0.007017	0.21336
25	4.931964	0.001365	0.0254	0.004997	0.06096
26	5.884628	0.001479	0.02032	0.003387	0.06096
27	21.72308	0.009555	0.12954	0.005937	0.12192
28	2.913048	0.000442	0.00508	0.00167	0.03048
29	4.068952	0.002368	0.05334	0.013246	0.12192
30	3.456041	0.000677	0.02286	0.006412	0.09144
31	2.699818	8.35E-05	0.00508	0.002241	0.06096
32	7.815238	0.002688	0.09398	0.011809	0.4572
33	3.279403	0.000935	0.05588	0.016355	0.33528
34	5.137094	0.001934	0.06858	0.013063	0.21336
35	3.681205	0.00088	0.02286	0.006227	0.18288
36	3.115274	0.000556	0.013667	0.005824	0.118987
37	10.93637	0.005414	0.11684	0.010542	0.18288
38	5.011213	0.002349	0.0381	0.007374	0.12192
39	2.924787	0.000261	0.00762	0.002505	0.03048
40	5.097138	0.001192	0.02794	0.005322	0.09144
41	9.057787	0.003626	0.07366	0.007999	0.42672
42	3.164989	0.00038	0.014901	0.004647	0.12192
43	10.9674	0.003275	0.0635	0.005708	0.1524
44	2.816838	0.000681	0.01778	0.006257	0.12192
45	7.333825	0.002198	0.0381	0.00508	0.06096
46	4.845056	0.001614	0.03048	0.006147	0.12192
47	3.467565	0.001	0.01524	0.00452	0.09144
48	5.746611	0.001661	0.05334	0.009079	0.21336
49	3.911425	0.001392	0.02286	0.005656	0.12192
50	4.146496	0.001481	0.02032	0.004781	0.1524
51	4.117351	0.001804	0.03556	0.008367	0.21336
52	3.423877	0.000468	0.023836	0.007172	0.12192
53	6.596946	0.004231	0.05334	0.007951	0.1524
54	6.809798	0.004529	0.17526	0.025187	0.4572
55	8.178524	0.004092	0.10668	0.012802	0.36576
56	4.652535	0.001667	0.04064	0.008481	0.21336
57	11.2205	0.005044	0.08382	0.007369	0.1524
58	3.752032	0.000961	0.02286	0.005837	0.1524

59	8.044832	0.003643	0.05334	0.006612	0.1524
60	3.405029	0.000983	0.01524	0.004303	0.09144
61	5.817856	0.002824	0.09652	0.016313	0.27432
62	9.03006	0.003096	0.0635	0.006972	0.1524
63	3.811712	0.001732	0.0635	0.016646	0.33528
64	3.859317	0.00143	0.00508	0.001283	0.03048
65	5.204342	0.003194	0.11176	0.020955	0.67056
66	3.023185	0.000668	0.01524	0.004813	0.06096
67	3.290732	0.000728	0.02794	0.008178	0.18288
68	3.79105	0.000966	0.05334	0.013619	0.33528
69	3.070374	0.000551	0.049152	0.01677	0.12192
70	3.920131	0.001071	0.02794	0.006842	0.06096
71	5.025098	0.001528	0.0254	0.004916	0.06096
72	2.725012	0.000208	0.00254	0.000896	0.03048
73	3.141804	0.000534	0.02032	0.006252	0.1524
74	2.828521	0.000412	0.02794	0.009445	0.09144
75	7.839424	0.002844	0.04064	0.005107	0.09144
76	6.73882	0.002143	0.04572	0.00665	0.1524
77	3.555804	0.001001	0.02794	0.00762	0.09144
78	5.687026	0.001967	0.08382	0.014369	0.3048
79	3.534525	0.000888	0.039663	0.011084	0.1524
80	3.521035	0.00121	0.04318	0.012612	0.09144
81	4.058758	0.0013	0.0508	0.012192	0.24384
82	6.129304	0.001863	0.03048	0.004877	0.09144
83	4.612946	0.001631	0.0762	0.016042	0.42672
84	3.349556	0.000795	0.0381	0.010886	0.33528
85	4.077341	0.0011	0.01524	0.003621	0.03048
86	8.856256	0.003565	0.07366	0.008184	0.1524
87	7.704702	0.002382	0.0762	0.009728	0.21336
88	5.239829	0.001674	0.04064	0.007561	0.1524
89	3.687427	0.000771	0.01524	0.004019	0.03048
90	5.028277	0.001864	0.033401	0.007466	0.12192
91	3.000972	0.001045	0.02286	0.007315	0.09144
92	8.852927	0.002315	0.04064	0.004537	0.09144
93	2.292817	0.000558	0.00762	0.0031	0.03048
94	11.50662	0.00474	0.09398	0.008055	0.18288
95	8.167128	0.002742	0.05334	0.006433	0.1524
96	3.142145	0.000468	0.02286	0.006945	0.12192
97	8.227233	0.002246	0.04064	0.004877	0.12192
98	2.704426	0.000541	0.011949	0.004482	0.03048
99	6.647038	0.002523	0.05334	0.007854	0.12192
100	2.554096	0.000705	0.045492	0.018055	0.12192
101	6.704115	0.003697	0.023088	0.004072	0.09144

102	6.595054	0.004017	0.0762	0.011359	0.24384
103	3.506332	0.001117	0.02286	0.006306	0.06096
104	3.097226	0.00062	0.02032	0.006252	0.1524
105	2.829059	0.000616	0.04064	0.013737	0.1524
106	3.6883	0.000774	0.01778	0.004689	0.1524
107	2.90212	0.000402	0.02286	0.007516	0.09144
108	2.914809	0.000564	0.01016	0.00334	0.06096
109	3.892327	0.001038	0.0508	0.012569	0.1524
110	3.697631	0.001106	0.07366	0.019427	0.54864
111	2.37375	0.000414	0.00254	0.001524	0.03048
112	2.87313	0.000651	0.00036	0.000847	0.03048
113	7.132823	0.001669	0.03556	0.004905	0.12192
114	2.615184	0.000318	0.01016	0.003695	0.03048
115	8.365978	0.001919	0.0254	0.003122	0.09144
116	6.20129	0.002328	0.033517	0.005738	0.1524
117	2.848659	0.000588	0.02032	0.006773	0.12192
118	3.074549	0.001383	0.03302	0.010292	0.18288
119	4.378115	0.001886	0.04064	0.009057	0.12192
120	4.636538	0.001872	0.04064	0.008481	0.12192
121	5.472909	0.002461	0.06604	0.011828	0.12192
122	5.336581	0.001409	0.02032	0.003723	0.09144
123	5.838468	0.005489	0.12446	0.020894	0.21336
124	2.596181	0.000255	0.010167	0.004618	0.06096
125	3.528627	0.000815	0.01524	0.004204	0.09144
126	4.036625	0.001176	0.05842	0.014021	0.39624
127	4.837944	0.001782	0.08128	0.016256	0.3048
128	2.659973	0.000384	0.03302	0.0124	0.33528
129	5.328977	0.001196	0.0254	0.004653	0.09144
130	3.112757	0.000739	0.01778	0.005471	0.06096
131	4.761588	0.001834	0.0381	0.007749	0.24384
132	8.100736	0.002811	0.05334	0.006588	0.12192
133	7.532914	0.003642	0.07112	0.009277	0.1524
134	4.522135	0.00129	0.03302	0.007076	0.12192
135	6.299459	0.00179	0.0381	0.005938	0.3048
136	3.447494	0.000989	0.06858	0.019139	0.42672
137	16.27615	0.006484	0.00762	0.000464	0.09144
138	3.358131	0.001406	0.03048	0.008709	0.36576
139	4.825755	0.003061	0.11684	0.023678	0.6096
140	2.528133	0.000522	0.00508	0.001876	0.03048
141	5.38585	0.002055	0.1016	0.018334	0.21336
142	3.858402	0.001247	0.01778	0.004492	0.12192
143	6.013182	0.001389	0.03302	0.005355	0.21336
144	3.103839	0.000585	0.01016	0.003126	0.06096

145	3.261689	0.000542	0.01016	0.00301	0.06096
146	3.461857	0.000502	0.04064	0.011211	0.12192
147	2.570833	0.000649	0.00762	0.002857	0.06096
148	8.880282	0.003964	0.02794	0.003104	0.21336
149	5.729754	0.002175	0.04064	0.006986	0.21336
150	2.751944	0.000943	0.05842	0.02032	0.12192
151	5.829724	0.001156	0.00762	0.001279	0.03048
152	5.053586	0.00138	0.02032	0.003933	0.06096
153	4.929102	0.001243	0.04318	0.008565	0.27432
154	4.628343	0.001367	0.07874	0.016577	0.24384
155	4.276815	0.001324	0.0127	0.002903	0.06096
156	3.759793	0.000901	0.0127	0.003277	0.12192
157	3.193051	0.000687	0.038484	0.012954	0.33528
158	2.718402	0.000604	3.78E-05	0.000883	0.03048
159	14.24113	0.00431	0.07874	0.005493	0.1524
160	2.295849	0.000527	0.0127	0.005166	0.12192
161	7.19042	0.002467	0.03556	0.004877	0.06096
162	6.73404	0.002051	0.03302	0.004988	0.06096
163	2.543772	0.000249	0.0254	0.009525	0.09144
164	5.159434	0.00133	0.03302	0.00629	0.06096
165	2.502662	0.000397	0.00254	0.000968	0.03048
166	3.180765	0.00035	0.03302	0.010031	0.1524
167	4.30834	0.001906	0.04826	0.010927	0.12192
168	8.444503	0.003123	0.0635	0.007444	0.24384
169	4.231448	0.001319	0.03048	0.00697	0.24384
170	2.928941	0.000444	0.03556	0.011533	0.1524
171	2.843876	0.000465	0.0254	0.008586	0.06096
172	2.57956	0.000558	0.00961	0.003751	0.06096
173	3.322004	0.000701	0.0127	0.003675	0.09144
174	7.882892	0.002422	0.06096	0.007581	0.1524
175	5.192637	0.001455	0.02032	0.00384	0.06096
176	6.800777	0.002174	0.04318	0.006363	0.1524
177	3.879634	0.001097	0.01778	0.004399	0.06096
178	5.494296	0.0024	0.05334	0.009504	0.1524
179	4.147032	0.00134	0.023468	0.005918	0.06096
180	3.805023	0.001422	0.02794	0.007134	0.12192
181	2.667596	0.000598	0.00987	0.003691	0.06096
182	4.44032	0.001891	0.05842	0.012746	0.18288
183	4.259325	0.000956	0.03048	0.006901	0.1524
184	2.725992	0.00072	0.01016	0.003534	0.09144
185	3.209058	0.000719	0.01524	0.004572	0.09144
186	2.69171	0.000448	0.00254	0.000896	0.03048
187	6.749267	0.003242	0.1143	0.016525	0.42672

188	3.034248	0.000565	0.05588	0.017646	0.42672
189	3.294551	0.000688	0.05842	0.017193	0.12192
190	3.952149	0.001096	0.03302	0.008087	0.09144
191	8.628735	0.002347	0.04064	0.004645	0.18288
192	2.834588	0.000617	0.0127	0.004233	0.06096
193	6.99925	0.00269	0.04318	0.00606	0.24384
194	3.322736	0.00065	0.02032	0.005947	0.03048
195	3.144917	0.000705	0.0127	0.004298	0.03048
196	3.062857	0.000415	0.01778	0.005542	0.06096
197	5.784375	0.001453	0.01524	0.002576	0.1524
198	2.253904	0.000462	0.0254	0.01051	0.21336
199	2.761391	0.00034	0.0127	0.004417	0.12192
200	4.715431	0.001764	0.06096	0.0131	0.12192
201	3.260369	0.000704	0.07112	0.021718	0.48768
202	3.121391	0.000648	0.01767	0.005542	0.09144
203	4.167596	0.001099	0.03302	0.007694	0.18288
204	3.332874	0.000793	0.01778	0.005141	0.18288
205	3.938456	0.001012	0.02794	0.006842	0.09144
206	8.343071	0.002472	0.04064	0.004874	0.27432
207	3.95976	0.001076	0.05588	0.013996	0.1524
208	3.250328	0.000784	0.0254	0.007526	0.18288
209	3.303955	0.000769	0.02032	0.005947	0.06096
210	3.584012	0.000882	0.018912	0.00548	0.06096
211	3.763244	0.000993	0.01524	0.003891	0.03048
212	5.380361	0.00175	0.04572	0.008313	0.18288
213	2.464895	0.000454	0.003547	0.002263	0.06096
214	9.843521	0.003796	0.07366	0.007397	0.1524
215	3.228232	0.000721	0.0254	0.007526	0.06096
216	2.582568	0.000497	0.001167	0.000924	0.03048
217	3.482671	0.000763	0.02286	0.006306	0.09144
218	2.487357	0.000517	0.00762	0.002903	0.06096
219	3.534976	0.000937	0.01524	0.004503	0.06096
220	3.402411	0.000862	0.02286	0.006531	0.09144
221	4.959304	0.001643	0.05334	0.010408	0.24384
222	4.935983	0.001671	0.03302	0.006496	0.12192
223	3.279415	0.000787	0.02286	0.006773	0.09144
224	12.22727	0.004423	0.09144	0.007414	0.27432
225	12.93813	0.004715	0.08382	0.006407	0.12192
226	3.873867	0.001066	0.01778	0.004399	0.1524
227	6.21089	0.001953	0.03302	0.00518	0.12192
228	5.977209	0.001212	0.02286	0.003835	0.09144
229	2.596553	0.000438	0.00254	0.000938	0.03048
230	5.877869	0.001689	0.044728	0.008085	0.18288

231	14.42507	0.004415	0.034012	0.002717	0.097395
232	6.809569	0.005014	0.12192	0.017704	0.18288
233	4.44785	0.001708	0.04318	0.0097	0.09144
234	2.807412	0.000659	0.00508	0.001717	0.03048
235	5.246848	0.001686	0.0381	0.007388	0.12192
236	9.506535	0.003179	0.06858	0.007125	0.1524
237	3.392857	0.000766	0.03302	0.009323	0.21336
238	3.904649	0.000981	0.02032	0.007541	0.24384
239	15.38121	0.005045	0.19304	0.012454	0.70104
240	3.438361	0.000744	0.00762	0.002127	0.06096
241	3.306343	0.000394	0.015003	0.004495	0.06096
242	3.427291	0.000992	0.01524	0.004253	0.03048
243	3.465863	0.000625	0.0254	0.007007	0.12192
244	7.261898	0.002152	0.02794	0.003767	0.09144
245	7.00395	0.002386	0.05842	0.008152	0.1524
246	2.853207	0.000923	0.01016	0.003864	0.03048
247	8.131321	0.00315	0.00508	0.000759	0.03048
248	3.794969	0.000605	0.00762	0.001946	0.03048
249	3.34414	0.000916	0.01778	0.005141	0.09144
250	4.139647	0.00124	0.00254	0.000598	0.03048
251	5.398166	0.00241	0.09652	0.017549	0.27432
252	3.470183	0.000778	0.03302	0.009406	0.1524
253	5.143061	0.002364	0.09652	0.018385	0.51816
254	3.02205	0.000399	0.00508	0.001626	0.03048
255	5.253866	0.002102	0.0508	0.009457	0.12192
256	3.179171	0.000411	0.00576	0.002667	0.06096
257	3.113109	0.000952	0.05334	0.016412	0.27432
258	3.125919	0.000832	0.01016	0.003126	0.06096
259	3.487041	0.000841	0.01016	0.002771	0.06096
260	2.520496	3.93E-05	0.00762	0.002857	0.03048
261	3.34641	0.000401	0.00273	0.001451	0.03048
262	2.567546	0.000404	0.01016	0.003751	0.09144
263	4.309147	0.001353	0.0254	0.005644	0.06096
264	1.987873	0.000563	0.003617	0.002391	0.03048
265	2.655177	0.000505	0.009014	0.003639	0.03048
266	2.7537	0.00034	0.0127	0.004859	0.06096
267	5.096076	0.001636	0.0508	0.00984	0.18288
268	2.595094	7.09E-05	0.007719	0.005026	0.12192
269	3.457841	0.000807	0.06858	0.019139	0.39624
270	3.425156	0.000864	0.09906	0.027645	0.21336
271	5.683434	0.001162	0.03556	0.006096	0.12192
272	4.964756	0.001369	0.02794	0.005408	0.09144
273	9.460028	0.003205	0.03048	0.003181	0.06096

274	5.842465	0.001868	0.03302	0.005542	0.12192
275	2.8116	0.000279	0.0127	0.004354	0.09144
276	3.117503	0.000648	0.01016	0.003126	0.03048
277	4.928191	0.001457	0.02032	0.00403	0.1524
278	8.785331	0.001911	0.05334	0.005982	0.18288
279	3.391632	0.000708	0.01016	0.00324	0.06096
280	2.880344	0.000557	0.01016	0.003571	0.06096
281	2.524838	0.000491	0.00508	0.001905	0.03048
282	3.249851	0.000302	0.0127	0.003763	0.06096
283	2.899715	0.000502	0.01016	0.00334	0.12192
284	3.870987	0.001035	0.0254	0.006758	0.09144
285	5.866785	0.002566	0.07366	0.012277	0.21336
286	5.111044	0.00107	0.0254	0.004838	0.06096
287	3.435806	0.000683	0.027061	0.008248	0.06096
288	4.268601	0.001433	0.03302	0.007547	0.12192
289	7.837369	0.002264	0.03556	0.004468	0.12192
290	4.768388	0.001561	0.02032	0.004098	0.06096
291	3.019215	0.000402	0.01524	0.005283	0.03048
292	2.878531	0.001018	0.03048	0.010021	0.1524
293	7.883803	0.002973	0.05842	0.007314	0.33528
294	3.450948	0.00102	0.03302	0.009424	0.09144
295	2.538412	0.000466	0.00254	0.000952	0.03048
296	2.743414	0.000473	0.01524	0.005225	0.06096
297	3.614346	0.000855	0.03556	0.009483	0.21336
298	3.483168	0.000901	0.01524	0.004253	0.09144
299	4.045024	0.001573	0.05334	0.012551	0.24384
300	3.225676	0.001361	0.024457	0.00762	0.09144
301	3.341612	0.00048	0.0127	0.003672	0.12192
302	3.020154	0.001165	0.02032	0.006417	0.09144
303	3.733143	0.000959	0.09652	0.024908	0.24384
304	3.282219	0.000605	0.00508	0.001487	0.03048
305	2.50696	0.000288	0.01159	0.00505	0.09144
306	2.856635	0.000467	0.011292	0.004233	0.03048
307	6.051758	0.001944	0.05588	0.009001	0.1524
308	3.218738	0.000872	0.0127	0.003763	0.06096
309	7.338484	0.002578	0.05842	0.007833	0.18288
310	2.973712	0.000367	0.00254	0.000824	0.03048
311	10.01692	0.002833	0.05588	0.005519	0.21336
312	2.368154	0.000299	0.012049	0.005458	0.12192
313	3.143522	0.00062	0.027771	0.008597	0.12192
314	6.122321	0.002624	0.04826	0.00767	0.18288
315	2.841032	0.000614	0.018699	0.006869	0.06096
316	1.962402	8.30E-05	0.00254	0.001219	0.03048

317	5.034119	0.002245	0.08128	0.015732	0.24384
318	6.974584	0.002188	0.08382	0.011833	0.18288
319	2.922295	0.000455	0.01778	0.007516	0.12192
320	3.634256	0.000914	0.02032	0.005359	0.06096
321	6.618988	0.002801	0.08128	0.012041	0.36576
322	6.949121	0.002349	0.0635	0.008965	0.21336
323	3.227131	0.000446	0.0127	0.003763	0.09144
324	7.616163	0.003626	0.0508	0.006633	0.09144
325	4.773526	0.001741	0.04318	0.008782	0.12192
326	3.45917	0.00078	0.0254	0.007088	0.06096
327	2.997014	0.000476	0.005667	0.003611	0.09144
328	2.823764	0.000649	0.009573	0.003869	0.08792
329	6.288842	0.001585	0.04064	0.006334	0.27432
330	2.777668	0.000611	0.02286	0.008429	0.06096
331	3.957193	0.001105	0.0127	0.00311	0.06096
332	4.742433	0.002173	0.10414	0.021362	0.21336
333	3.371491	0.000767	0.01524	0.004354	0.12192
334	6.013722	0.00391	0.09906	0.016173	0.12192
335	3.002091	0.000726	0.0127	0.004064	0.06096
336	4.743043	0.001502	0.03048	0.006252	0.12192
337	3.633376	0.001278	0.03302	0.008709	0.12192
338	3.590928	0.000983	0.02032	0.005419	0.09144
339	8.542832	0.0029	0.05334	0.006155	0.1524
340	3.852353	0.001482	0.03302	0.008342	0.1524
341	6.174722	0.002181	0.06858	0.0109	0.3048
342	6.262098	0.004011	0.083219	0.013243	0.12192
343	3.175469	0.000283	0.002655	0.001881	0.06096
344	3.858715	0.001004	0.02794	0.006985	0.1524
345	2.573731	0.0004	0.002112	0.000953	0.03048
346	4.006131	0.002446	0.03048	0.007389	0.09144
347	5.026692	0.001025	0.04064	0.007866	0.33528
348	2.745512	0.000438	0.0127	0.004417	0.09144
349	3.619567	0.000908	0.0635	0.017272	0.1524
350	2.258366	0.000484	0.02032	0.008408	0.21336
351	3.424257	0.000779	0.04572	0.013557	0.33528
352	3.15456	0.000588	0.036463	0.013924	0.12463
353	3.113182	0.000678	0.09144	0.028347	0.33528
354	5.097605	0.001268	0.04318	0.008225	0.3048
355	2.33891	0.000471	0.00508	0.002514	0.06096
356	2.871504	0.000338	0.00254	0.000847	0.03048
357	5.448992	0.001329	0.02	0.003668	0.06096
358	2.748162	0.000312	0.00762	0.00265	0.06096
359	3.279393	0.000637	0.01524	0.00446	0.1524

360	9.60393	0.003187	0.07112	0.007294	0.18288
361	3.916843	0.000917	0.01778	0.004399	0.09144
362	2.94746	0.000377	0.0254	0.008281	0.18288
363	3.242627	0.001306	0.00762	0.002258	0.06096
364	2.958161	0.00068	0.029339	0.012357	0.3048
365	2.552321	0.000433	0.00762	0.002858	0.09144
366	5.62833	0.001963	0.05842	0.01016	0.18288
367	3.658661	0.000799	0.04572	0.012058	0.12192
368	3.90051	0.001153	0.02286	0.005715	0.21336
369	4.798384	0.00129	0.05842	0.011882	0.24384
370	4.205711	0.001446	0.03302	0.00762	0.21336
371	2.933149	0.00048	0.02794	0.009062	0.1524
372	3.741854	0.00113	0.01778	0.004588	0.09144
373	3.172966	0.000521	0.0254	0.007716	0.12192
374	3.057998	0.000748	0.01524	0.004813	0.09144
375	6.02894	0.001105	0.00508	0.000824	0.03048
376	6.048814	0.001588	0.05842	0.009474	0.21336
377	4.811417	0.001566	0.10414	0.021003	0.39624
378	3.577165	0.000912	0.05334	0.014384	0.1524
379	8.406486	0.004552	0.10414	0.012192	0.18288
380	2.64073	0.000448	0.005497	0.003184	0.06096
381	5.711548	0.00136	0.0254	0.004354	0.06096
382	2.657501	0.000424	0.01016	0.003695	0.06096
383	4.686837	0.001628	0.03302	0.006773	0.12192
384	3.303779	0.00076	0.01524	0.00446	0.09144
385	3.156706	0.000618	0.02032	0.006252	0.09144
386	3.805956	0.00115	0.02032	0.005188	0.21336
387	3.733914	0.00099	0.03048	0.007866	0.12192
388	2.976373	0.00067	0.02286	0.007315	0.12192
389	8.822146	0.003226	0.02794	0.003119	0.06096

C1

Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	12.6102	0.003954	0.0635	0.004997	0.33528
2	65.88455	0.027605	0.0508	0.00077	0.21336
3	6.492644	0.001512	0.00762	0.00115	0.06096
4	11.56986	0.004458	0.02286	0.001952	0.06096
5	25.51244	0.010392	0.05334	0.002075	0.09144
6	5.793941	0.005067	0.01778	0.003005	0.09144
7	4.42236	0.001722	0.03556	0.00802	0.3048
8	3.890734	0.000698	0.01016	0.002514	0.06096
9	4.342667	0.000789	0.01016	0.002258	0.06096
10	7.818406	0.003129	0.04572	0.005715	0.33528

11	4.480586	0.003877	0.047252	0.011308	0.42672
12	4.782579	0.001722	0.00762	0.001563	0.09144
13	4.118212	0.000783	0.03302	0.007769	0.21336
14	10.2036	0.003506	0.0762	0.007374	0.54864
15	12.13467	0.011185	0.12954	0.010575	0.42672
16	5.316469	0.004084	0.0127	0.002327	0.12192
17	10.67263	0.004674	0.0448	0.004354	0.09144
18	26.72596	0.011315	0.06096	0.002268	0.1524
19	5.35004	0.002782	0.00508	0.000924	0.03048
20	5.190043	0.001644	0.02109	0.005715	0.18288
21	3.856164	0.003356	0.04318	0.010795	0.1524
22	4.949564	0.002044	0.00762	0.001511	0.03048
23	6.006012	0.002915	0.03556	0.005806	0.09144
24	6.042432	0.001742	0.06858	0.010973	0.1524
25	3.625437	0.001057	0.000437	0.000677	0.03048
26	13.47209	0.005091	0.04064	0.003228	0.09144
27	4.209467	0.002498	0.0381	0.008792	0.09144
28	4.699319	0.001365	0.01016	0.002102	0.06096
29	5.156508	0.003555	0.03048	0.005806	0.1524
30	6.495398	0.005647	0.07366	0.011175	0.33528
31	3.534536	0.000619	0.01016	0.002771	0.09144
32	9.120284	0.002444	0.02032	0.002197	0.06096
33	66.04815	0.03454	0.20066	0.003033	0.1524
34	4.27536	0.000784	0.00508	0.001139	0.06096
35	7.550276	0.005035	0.0254	0.003313	0.12192
36	4.560922	0.002061	0.01778	0.003776	0.09144
37	5.001774	0.002388	0.00762	0.001487	0.03048
38	3.20747	0.000582	0.00254	0.000762	0.03048
39	5.307148	0.002242	0.03302	0.006049	0.12192
40	4.034373	0.003546	0.01016	0.002438	0.09144
41	5.496077	0.003768	0.03302	0.005914	0.18288
42	3.01754	0.006204	0.008046	0.003488	0.078755
43	3.172885	0.001162	0.065614	0.02106	0.54864
44	3.281845	0.001037	0.01778	0.005268	0.1524
45	3.505384	0.00407	0.0635	0.017517	0.39624
46	3.12953	0.000906	0.02032	0.006252	0.24384
47	4.223794	0.000597	0.02794	0.006386	0.27432
48	3.346056	0.001098	0.01524	0.004303	0.12192
49	6.325979	0.006771	0.1143	0.017698	0.33528
50	3.23195	0.000695	0.01016	0.00301	0.12192
51	6.940034	0.003711	0.0254	0.003607	0.24384
52	5.01655	0.001961	0.002804	0.001204	0.06096
53	6.480901	0.0049	0.02286	0.003642	0.03048

54	4.166864	0.000984	0.00762	0.001776	0.06096
55	14.73472	0.008598	0.07366	0.004966	0.18288
56	3.67826	0.000677	0.04572	0.012058	0.54864
57	5.579679	0.002154	0.0254	0.00445	0.09144
58	20.12944	0.012678	0.17272	0.008529	0.27432
59	5.637689	0.003588	0.00508	0.000883	0.06096
60	29.03247	0.011453	0.09906	0.003396	0.3048
61	8.381435	0.006491	0.09144	0.010848	0.12192
62	4.422158	0.001006	0.00508	0.001119	0.03048
63	5.22305	0.002171	0.01524	0.002814	0.09144
64	5.156568	0.002953	0.0381	0.007257	0.09144
65	4.238048	0.000821	0.00254	0.000586	0.03048
66	7.07314	0.001581	0.01016	0.001401	0.06096
67	4.447388	0.001155	0.00508	0.001108	0.06096
68	4.427876	0.00102	0.00508	0.001108	0.03048
69	7.214493	0.003503	0.0254	0.003464	0.06096
70	4.049239	0.001005	0.0127	0.003048	0.06096
71	4.927278	0.002521	0.01016	0.002015	0.06096
72	5.065651	0.003672	0.02794	0.005364	0.09144
73	8.155382	0.004969	0.07366	0.008884	0.1524
74	2.302272	3.12E-05	0.00254	0.001051	0.03048
75	21.49469	0.012587	0.12446	0.005942	0.42672
76	20.60398	0.01726	0.20828	0.010038	0.4572
77	6.322508	0.003612	0.03556	0.005506	0.3048
78	5.750474	0.001727	0.01524	0.002576	0.1524
79	5.993987	0.002576	0.02032	0.003318	0.06096
80	4.26485	0.002522	0.03302	0.007476	0.12192
81	3.984782	0.001424	0.01524	0.003695	0.06096
82	3.664395	0.001648	0.0254	0.006773	0.09144
83	4.84457	0.001956	0.00254	0.000512	0.03048
84	5.169291	0.001943	0.02794	0.00528	0.06096
85	5.478036	0.003391	0.03556	0.006275	0.1524
86	5.274325	0.002593	0.02286	0.00422	0.09144
87	3.282376	0.001082	0.00254	0.000734	0.03048
88	5.030947	0.004357	0.05842	0.011307	0.36576
89	5.057473	0.004719	0.02286	0.004389	0.06096
90	4.479584	0.003152	0.02286	0.004943	0.09144
91	3.976517	0.000538	0.00254	0.000616	0.03048
92	7.500462	0.007269	0.03302	0.00433	0.1524
93	5.702364	0.013124	0.22352	0.038318	0.88392
94	3.831273	0.004128	0.0254	0.006417	0.18288
95	4.696186	0.00336	0.06858	0.014068	0.33528
96	3.891486	0.000882	0.01524	0.003771	0.09144

97	5.255557	0.001722	0.0127	0.002363	0.09144
98	5.934493	0.001805	0.0127	0.002102	0.09144
99	13.46471	0.011398	0.04064	0.002983	0.09144
100	7.229606	0.003481	0.0254	0.003464	0.09144
101	5.188381	0.005118	0.0381	0.007144	0.18288
102	8.019267	0.001925	0.03048	0.003751	0.09144
103	3.472455	0.001564	0.02032	0.005606	0.12192
104	5.094559	0.003326	0.05334	0.01016	0.21336
105	4.111175	0.000731	0.01524	0.003621	0.09144
106	5.336606	0.001468	0.03556	0.006515	0.1524
107	8.130298	0.003051	0.05588	0.006773	0.42672
108	4.546084	0.001051	0.01524	0.003237	0.12192
109	6.414559	0.016515	0.19812	0.030286	0.33528
110	9.482942	0.00917	0.0762	0.007917	0.1524
111	5.064393	0.003745	0.04318	0.008357	0.18288
112	3.676743	0.000753	0.00508	0.00134	0.06096
113	5.229386	0.002993	0.03302	0.006143	0.1524
114	7.643959	0.005209	0.118914	0.015434	0.4572
115	3.097679	0.000571	0.0127	0.003908	0.03048
116	2.968287	0.000309	0.0127	0.004064	0.06096
117	3.826176	0.001328	0.01524	0.00385	0.06096
118	2.775063	0.000526	0.00508	0.001742	0.06096
119	4.516643	0.001501	0.01016	0.002197	0.06096
120	4.667177	0.001708	0.01016	0.00212	0.06096
121	2.819384	0.000573	0.00762	0.00254	0.06096
122	5.071945	0.001829	0.01524	0.002926	0.06096
123	5.297642	0.004293	0.04064	0.007445	0.21336
124	3.514591	0.002309	0.03302	0.009109	0.18288
125	3.25111	0.001936	0.008835	0.00301	0.06096
126	3.230429	0.001	0.016565	0.006021	0.09144
127	4.882966	0.0042	0.05588	0.011264	0.18288
128	3.268038	0.001331	0.01778	0.005204	0.1524
129	3.306739	0.001547	0.03556	0.010282	0.39624
130	3.868602	0.001003	0.17018	0.042545	1.00584
131	15.26749	0.007597	0.11176	0.007269	0.33528
132	4.525231	0.000985	0.00508	0.001089	0.03048
133	103.9239	0.046624	0.246808	0.002414	0.18288
134	5.260107	0.003216	0.02032	0.003751	0.18288
135	3.915628	0.000584	0.00508	0.001257	0.03048
136	5.39897	0.00246	0.01778	0.003233	0.12192
137	5.089494	0.002879	0.03048	0.005852	0.18288
138	4.80613	0.004581	0.06604	0.013432	0.27432
139	4.467309	0.001335	0.01016	0.002217	0.06096

140	3.041939	0.000314	0.01016	0.003167	0.09144
141	7.656505	0.003514	0.04318	0.005542	0.21336
142	3.497786	0.000598	0.01016	0.002803	0.06096
143	5.591217	0.007898	0.01524	0.00267	0.1524
144	6.994711	0.002787	0.08128	0.011408	0.24384
145	11.08869	0.004598	0.03556	0.003173	0.12192
146	21.6538	0.008391	0.06858	0.003147	0.27432
147	8.306102	0.002387	0.04826	0.005734	0.27432
148	38.46582	0.011783	0.08382	0.00217	0.12192
149	47.80187	0.030712	0.26162	0.005455	0.36576
150	5.302246	0.003752	0.04572	0.008441	0.09144
151	5.54395	0.00142	0.0254	0.004482	0.06096
152	3.5655	0.000498	0.00508	0.001385	0.06096
153	11.20658	0.015967	0.16002	0.014119	0.24384
154	3.025308	0.004304	0.11176	0.035293	0.33528
155	2.928244	0.000494	0.01778	0.005845	0.12192
156	1.755306	0.000605	0.00762	0.003976	0.09144
157	2.992756	0.000467	0.00508	0.001626	0.06096
158	2.6223	0.000818	0.01524	0.005542	0.09144
159	3.107456	0.001644	0.00508	0.001722	0.03048
160	2.953949	0.000425	0.00508	0.001648	0.06096
161	3.313061	0.001764	0.005137	0.002938	0.09144
162	3.163439	0.00103	0.01524	0.004572	0.1524
163	6.336766	0.002519	0.02032	0.003146	0.09144
164	10.09904	0.006111	0.0635	0.006274	0.27432
165	6.552858	0.01058	0.0635	0.009525	0.33528
166	5.071472	0.003786	0.04572	0.008778	0.1524
167	4.853714	0.003219	0.01778	0.003586	0.21336
168	5.195417	0.002568	0.0254	0.004763	0.06096
169	4.603288	0.002346	0.03302	0.006891	0.27432
170	2.861916	0.001906	0.01778	0.005927	0.12192
171	2.956051	0.000307	0.00762	0.002471	0.06096
172	42.43513	0.012505	0.07366	0.001731	0.12192
173	4.932546	0.00176	0.00508	0.000999	0.06096
174	6.705523	0.004321	0.0381	0.005542	0.3048
175	6.345962	0.001607	0.0254	0.003908	0.09144
176	4.949596	0.002862	0.0254	0.004997	0.21336
177	4.380552	0.000676	0.01016	0.002258	0.06096
178	5.298142	0.005041	0.05334	0.009772	0.1524
179	2.715684	0.000799	0.00508	0.001793	0.06096
180	3.816268	0.00196	0.02286	0.005775	0.1524
181	3.486282	0.00093	0.00762	0.002102	0.06096
182	4.960322	0.000944	0.00508	0.000999	0.03048

183	6.450208	0.000902	0.01524	0.002315	0.09144
184	5.032087	0.002761	0.03556	0.006939	0.21336
185	4.255153	0.000698	0.01016	0.0023	0.06096
186	5.663759	0.002596	0.04572	0.007894	0.4572
187	5.622146	0.002449	0.065282	0.011617	0.24384
188	4.900733	0.002253	0.03556	0.007053	0.27432
189	4.94858	0.004081	0.0127	0.002498	0.1524
190	9.070836	0.008213	0.08382	0.009103	0.24384
191	7.050795	0.003191	0.0254	0.003544	0.09144
192	4.474462	0.001749	0.00508	0.001108	0.06096
193	5.613504	0.003663	0.03048	0.005263	0.1524
194	6.183431	0.010617	0.03048	0.004845	0.09144
195	2.614147	0.001486	0.03556	0.0131	0.21336
196	3.182385	0.00185	0.01778	0.005334	0.09144
197	5.056496	0.0055	0.09144	0.017556	0.39624
198	4.319591	0.002466	0.0254	0.005697	0.21336
199	3.762644	0.003552	0.03048	0.007866	0.09144
200	3.743338	0.001921	0.0254	0.006555	0.27432
201	4.553122	0.001144	0.01524	0.003266	0.12192
202	5.323915	0.001099	0.01016	0.001861	0.06096
203	4.726368	0.001625	0.0127	0.002628	0.09144
204	5.526795	0.004485	0.0508	0.008954	0.21336
205	3.067119	0.000395	0.00762	0.002406	0.06096
206	4.482317	0.001104	0.01524	0.003367	0.06096
207	3.597944	0.000959	0.00508	0.00134	0.06096
208	4.55772	0.003558	0.0508	0.010886	0.27432
209	3.271611	0.000949	0.00762	0.002258	0.06096
210	3.775871	0.00264	0.01016	0.002594	0.09144
211	4.641912	0.001286	0.02032	0.004241	0.09144
212	5.913042	0.003174	0.01524	0.002522	0.12192
213	2.602749	0.000213	0.00508	0.001847	0.06096
214	4.716583	0.002308	0.01524	0.003153	0.09144
215	5.285269	0.001516	0.0381	0.007034	0.1524
216	70.36166	0.036685	0.27432	0.003891	0.42672
217	3.455895	0.001388	0.03556	0.009924	0.09144
218	3.330099	0.001316	0.0381	0.010886	0.21336
219	64.85371	0.026272	0.03048	0.000469	0.24384
220	12.50715	0.006153	0.07112	0.005633	0.21336
221	6.419357	0.007021	0.04318	0.006772	0.06096
222	5.113001	0.0033	0.04826	0.009192	0.36576
223	3.153042	0.000844	0.0127	0.003858	0.1524
224	3.687714	0.00339	0.03556	0.009277	0.18288
225	3.226186	0.000924	0.0254	0.00762	0.1524

226	3.740997	0.002642	0.08382	0.021631	0.24384
227	3.646097	0.001489	0.0127	0.003387	0.06096
228	6.369589	0.00177	0.00762	0.001172	0.09144
229	4.975758	0.001825	0.01778	0.003469	0.06096
230	3.915885	0.00098	0.01016	0.002514	0.09144
231	3.94864	0.000988	0.01524	0.003771	0.03048
232	4.700609	0.001243	0.00762	0.001577	0.06096
233	8.370443	0.004842	0.06858	0.008068	0.09144
234	3.150354	0.000721	0.00762	0.002315	0.09144
235	4.821152	0.001427	0.04064	0.008196	0.27432
236	3.917323	0.00098	0.02794	0.007068	0.21336
237	16.16462	0.027183	0.42926	0.026348	0.6096
238	4.83627	0.001745	0.03302	0.006659	0.12192
239	3.608426	0.004227	0.127	0.033495	0.27432
240	2.707299	0.000268	0.00508	0.001793	0.03048
241	4.611406	0.001738	0.00762	0.001604	0.09144
242	7.397443	0.002274	0.01778	0.002345	0.09144
243	48.57562	0.017653	0.17272	0.003546	0.18288
244	3.158369	0.000557	0.02032	0.006173	0.1524
245	8.601794	0.0042	0.0762	0.008709	0.18288
246	7.226331	0.004242	0.03302	0.004477	0.1524
247	5.581609	0.001531	0.01778	0.003115	0.18288
248	33.01713	0.013243	0.05971	0.00184	0.12192
249	7.385712	0.002401	0.02032	0.002709	0.06096
250	16.6661	0.007226	0.05334	0.003169	0.21336
251	5.895101	0.00527	0.0127	0.002102	0.06096
252	4.756085	0.001776	0.0254	0.00521	0.24384
253	9.264056	0.003914	0.07366	0.007857	0.39624
254	5.658144	0.001582	0.0127	0.002631	0.06096
255	23.32326	0.018697	0.08636	0.003681	0.18288
256	9.80334	0.003901	0.04826	0.004867	0.18288
257	5.038493	0.003098	0.0381	0.007374	0.21336
258	3.716885	0.001507	0.02032	0.005301	0.12192
259	3.800029	0.000351	0.0127	0.003243	0.1524
260	3.754017	0.001913	0.01778	0.004588	0.12192
261	18.6788	0.00677	0.19558	0.010408	0.57912
262	11.89616	0.003953	0.00762	0.000633	0.06096
263	3.815462	0.002996	0.0508	0.01297	0.24384
264	4.692986	0.001881	0.01524	0.003153	0.06096
265	7.299568	0.005632	0.09652	0.013014	0.18288
266	4.620572	0.001009	0.00762	0.001604	0.09144
267	4.466741	0.003042	0.01524	0.003295	0.09144
268	5.042054	0.003129	0.03048	0.005899	0.33528

269	4.935023	0.002317	0.0127	0.002498	0.09144
270	7.357343	0.0056	0.127	0.01684	0.42672
271	4.70571	0.00097	0.03048	0.006252	0.21336
272	3.25837	0.001145	0.0127	0.003717	0.06096
273	6.292649	0.004324	0.0889	0.013855	0.42672
274	6.49738	0.006144	0.09652	0.014569	0.73152
275	9.993681	0.006005	0.12192	0.012041	0.57912
276	4.280641	0.003338	0.01016	0.0023	0.12192
277	3.332411	0.002247	0.00762	0.002203	0.09144
278	5.462329	0.002598	0.03556	0.006322	0.21336
279	4.622089	0.003221	0.02794	0.005831	0.24384
280	10.7211	0.00404	0.03302	0.003048	0.06096
281	3.536774	0.000983	0.03048	0.008895	0.09144
282	8.588525	0.0069	0.02032	0.002333	0.09144
283	3.388601	0.003618	0.02032	0.005806	0.1524
284	5.821657	0.005922	0.13462	0.022753	0.54864
285	2.509763	-0.00021	0.03302	0.012579	0.33528
286	3.184216	0.004694	0.01778	0.005402	0.09144
287	2.926697	0.000579	0.01016	0.00334	0.09144
288	5.447131	0.002805	0.03048	0.005459	0.24384
289	6.182372	0.002163	0.02286	0.003633	0.21336
290	4.612121	0.001125	0.00508	0.001069	0.06096
291	3.566387	0.001865	0.01524	0.00411	0.18288
292	6.262866	0.001677	0.0127	0.001979	0.12192
293	5.474729	0.004887	0.04572	0.008189	0.18288
294	5.673046	0.002883	0.01778	0.00307	0.06096
295	3.515488	0.002556	0.03556	0.009698	0.27432
296	2.416721	0.000288	0.0635	0.024984	0.73152
297	3.740373	0.002313	0.01778	0.004588	0.21336
298	5.630016	0.004217	0.05334	0.009277	0.24384
299	6.679214	0.006234	0.08382	0.012266	0.21336
300	7.181493	0.002609	0.06096	0.008313	0.39624
301	9.682814	0.007162	0.0508	0.005188	0.21336
302	6.468956	0.004839	0.03048	0.004572	0.12192
303	4.79794	0.003826	0.0381	0.00762	0.21336
304	2.976956	0.000848	0.00508	0.001604	0.03048
305	6.076336	0.004286	0.0508	0.008183	0.12192
306	3.26254	0.000729	0.00508	0.001505	0.03048
307	3.566585	0.002548	0.01524	0.00411	0.1524
308	3.431643	0.001875	0.02032	0.005671	0.12192
309	3.084248	0.000322	0.00254	0.000792	0.03048
310	4.862263	0.001873	0.00508	0.001025	0.03048
311	5.397215	0.003037	0.01778	0.003233	0.06096

312	5.22176	0.004416	0.02286	0.004253	0.09144
313	4.745208	0.001438	0.0254	0.00521	0.3048
314	3.738328	0.003708	0.03556	0.009079	0.21336
315	4.009091	0.00452	0.03048	0.007315	0.1524
316	5.485825	0.005614	0.06096	0.010837	0.21336
317	3.130082	0.001254	0.00254	0.000782	0.03048
318	4.072381	0.000662	0.00762	0.001811	0.06096
319	6.941843	0.00907	0.04572	0.006455	0.09144
320	3.281398	0.00211	0.00762	0.002258	0.09144
321	4.501267	0.004147	0.05334	0.01143	0.21336
322	3.367507	0.001972	0.02032	0.005806	0.12192
323	6.017268	0.011934	0.0508	0.008238	0.33528
324	3.480598	0.001949	0.00508	0.001401	0.06096
325	4.011501	0.002663	0.0381	0.009236	0.18288
326	2.668046	0.000261	0.01778	0.006275	0.09144
327	5.672825	0.002465	0.00762	0.001316	0.03048
328	5.701081	0.003879	0.02286	0.003919	0.06096
329	3.649881	0.001003	0.00762	0.001988	0.09144
330	5.050854	0.004835	0.06858	0.013063	0.21336
331	5.109057	0.004251	0.04064	0.007803	0.24384
332	3.621359	0.003314	0.03556	0.009483	0.21336
333	3.620344	0.002153	0.13208	0.035617	0.24384
334	3.140369	0.000316	0.00254	0.000772	0.03048
335	3.314935	0.00057	0.0127	0.003717	0.06096
336	4.926914	0.001666	0.00508	0.000999	0.03048
337	3.949936	0.000684	0.0508	0.012441	0.21336
338	3.714976	0.000806	0.01524	0.004261	0.06096
339	5.886185	0.00813	0.0635	0.010583	0.3048
340	5.678126	0.002457	0.06858	0.011841	0.21336
341	9.120676	0.011849	0.12954	0.014004	0.51816
342	7.599386	0.007264	0.04064	0.005272	0.3048
343	12.04288	0.008958	0.09906	0.008134	0.36576
344	6.447416	0.004293	0.03048	0.00463	0.09144
345	3.37831	0.000595	0.00508	0.001451	0.03048
346	4.551134	0.004018	0.02032	0.004354	0.12192
347	3.527899	0.002349	0.06096	0.016439	0.64008
348	3.389593	0.001269	0.01016	0.003163	0.09144
349	3.207776	0.000604	0.00762	0.002258	0.06096
350	6.370803	0.00364	0.06858	0.010551	0.24384
351	3.44857	0.00174	0.00508	0.001434	0.06096
352	5.743378	0.002579	0.0127	0.002162	0.03048
353	4.502346	0.00398	0.0508	0.010886	0.1524
354	3.048758	0.000538	0.00508	0.001604	0.06096

355	3.287701	0.000757	0.00508	0.001487	0.06096
356	3.350068	0.000761	0.00762	0.002177	0.09144
357	12.08225	0.006544	0.05588	0.004577	0.24384
358	7.290335	0.006491	0.03048	0.004281	0.1524
359	6.438637	0.002189	0.0508	0.007716	0.24384
360	2.814769	0.000239	0.00508	0.002026	0.03048
361	4.365622	0.005407	0.05334	0.012008	0.3048
362	3.182854	0.000626	0.02286	0.006945	0.24384
363	4.909571	0.002796	0.02286	0.004534	0.27432
364	3.93791	0.001429	0.00254	0.000628	0.03048
365	5.306358	0.003209	0.02032	0.003751	0.06096
366	6.231821	0.008022	0.10668	0.016734	0.4572
367	5.252774	0.003361	0.04826	0.009181	0.09144
368	5.527253	0.004254	0.02794	0.004931	0.18288
369	7.206579	0.004421	0.01778	0.002425	0.03048
370	2.776871	0.001083	0.00762	0.002613	0.06096
371	4.682141	0.002851	0.00508	0.001051	0.03048
372	3.987518	0.001069	0.01016	0.002463	0.06096
373	5.255192	0.003487	0.02032	0.003751	0.18288
374	5.541695	0.005636	0.07112	0.012551	0.18288
375	5.913483	0.004335	0.04318	0.007147	0.12192
376	5.670831	0.00429	0.0508	0.008771	0.1524
377	3.074514	0.000192	0.00254	0.000868	0.03048
378	9.527885	0.010101	0.04318	0.004467	0.27432
379	5.279987	0.002093	0.0508	0.009307	0.33528
380	9.822994	0.007316	0.03048	0.003061	0.1524
381	3.49206	0.000596	0.01016	0.002803	0.03048
382	8.070354	0.002433	0.02286	0.002785	0.06096
383	6.086286	0.012023	0.01778	0.002864	0.09144
384	3.584059	0.001229	0.00508	0.00137	0.06096
385	3.292773	0.001567	0.01778	0.005141	0.12192
386	4.255162	0.004451	0.00508	0.001161	0.03048
387	3.195408	0.000794	0.00762	0.002286	0.06096
388	4.191341	0.000594	0.00508	0.001172	0.03048
389	8.772298	0.020693	0.44958	0.05042	0.67056
390	27.10892	0.017601	0.06096	0.002237	0.18288
391	6.035102	0.002746	0.01524	0.002471	0.12192
392	11.89287	0.00383	0.01524	0.00127	0.12192
393	4.549989	0.003667	0.03302	0.007013	0.1524
394	5.138428	0.002047	0.01778	0.003387	0.06096
395	2.487977	0.000966	0.00254	0.000952	0.03048
396	3.95558	0.002821	0.017079	0.004354	0.09144
397	3.319974	0.002146	0.026101	0.008079	0.1524

398	3.523378	0.00114	0.00254	0.000693	0.03048
399	2.932178	0.000369	0.00254	0.000957	0.03048
400	4.688486	0.001346	0.0127	0.00265	0.06096
401	4.941018	0.003269	0.00762	0.001499	0.03048
402	3.207423	0.001476	0.0127	0.003763	0.06096
403	2.934171	0.000368	0.0127	0.004175	0.06096
404	4.001748	0.001226	0.02032	0.004926	0.12192
405	3.877877	0.003957	0.03556	0.00889	0.12192
406	4.845792	0.002322	0.02794	0.005635	0.1524
407	4.157373	0.007369	0.07366	0.017163	0.33528
408	3.734003	0.001695	0.01016	0.00265	0.06096
409	13.93214	0.011386	0.09906	0.007026	0.33528
410	12.10581	0.005579	0.1397	0.011443	0.42672
C2					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	2.17873	0.001309	0.02032	0.008867	0.09144
2	3.05269	0.003291	0.0254	0.008346	0.1524
3	1.068847	0.000505	0.00508	0.004591	0.06096
4	1.537303	0.000683	0.00762	0.004572	0.03048
5	1.475395	0.000701	0.014766	0.009775	0.12192
6	1.031004	0.000678	0.00359	0.004804	0.04308
7	2.767546	0.002748	0.03556	0.012369	0.1524
8	4.497044	0.003553	0.03302	0.007076	0.1524
9	2.584489	0.002184	0.01016	0.003751	0.12192
10	2.290371	0.001433	0.0127	0.005255	0.09144
11	2.413266	0.001656	0.05334	0.021336	0.54864
12	1.473046	0.000715	0.01524	0.009378	0.12192
13	3.17892	0.003865	0.06604	0.020063	0.3048
14	2.356502	0.001279	0.00508	0.002032	0.03048
15	1.464478	0.000537	0.0254	0.015631	0.21336
16	2.677751	0.001964	0.01778	0.006369	0.18288
17	1.073667	0.000536	0.01524	0.012612	0.18288
18	2.692067	0.00228	0.0127	0.004549	0.1524
19	2.910194	0.002447	0.03048	0.010021	0.21336
20	1.739431	0.000851	0.0254	0.01378	0.1524
21	2.803236	0.001629	0.020622	0.007727	0.1524
22	1.619687	0.000944	0.00254	0.001948	0.03048
23	2.810376	0.001944	0.03556	0.01202	0.21336
24	3.013276	0.0024	0.04064	0.013005	0.12192
25	2.610092	0.001498	0.02032	0.007503	0.12192
26	1.963683	0.001058	0.00508	0.002391	0.03048
27	2.476346	0.001557	0.0127	0.004838	0.09144

28	2.388369	0.001527	0.0127	0.005493	0.06096
29	2.562405	0.001646	0.00508	0.001876	0.06096
30	6.272775	0.005584	0.02794	0.004383	0.21336
31	2.540694	0.001613	0.00762	0.002857	0.03048
32	4.680466	0.007658	0.0508	0.01051	0.1524
33	3.817557	0.0034	0.02286	0.005837	0.09144
34	2.52162	0.002907	0.0254	0.009676	0.1524
35	2.677991	0.003366	0.03556	0.012738	0.27432
36	1.931548	0.001127	0.01016	0.004877	0.06096
37	2.154651	0.001257	0.01016	0.004516	0.06096
38	2.90653	0.003322	0.04064	0.013361	0.1524
39	2.825878	0.003646	0.03556	0.01202	0.18288
40	2.570605	0.003284	0.09144	0.03429	0.3048
41	2.558528	0.00186	0.02286	0.008441	0.12192
42	1.915084	0.001007	0.01524	0.007464	0.12192
43	2.805873	0.003275	0.01778	0.006096	0.1524
44	2.051021	0.001134	0.02286	0.010551	0.06096
45	2.058585	0.001087	0.01016	0.004689	0.09144
46	3.310933	0.004008	0.04826	0.014336	0.18288
47	1.796487	0.000889	0.01016	0.005301	0.09144
48	2.346688	0.001396	0.01778	0.007233	0.1524
49	1.904382	0.000983	0.02794	0.013685	0.33528
50	4.137527	0.005768	0.10414	0.024266	0.6096
51	4.516279	0.003959	0.04572	0.009797	0.1524
52	2.961622	0.003893	0.04826	0.015652	0.18288
53	4.134954	0.006404	0.058315	0.014032	0.09144
54	2.911011	0.003678	0.00578	0.00501	0.18288
55	2.802966	0.002726	0.01016	0.003483	0.09144
56	2.874391	0.002154	0.01524	0.006626	0.1524
57	2.888585	0.002805	0.01778	0.005845	0.18288
58	1.167538	0.000651	0.004982	0.003971	0.06096
59	1.729895	0.000909	0.00508	0.002771	0.06096
60	2.169633	0.00123	0.00508	0.002217	0.03048
61	5.039983	0.008797	0.10414	0.020156	0.1524
62	2.815111	0.003735	0.07366	0.024899	0.27432
63	1.56664	0.000665	0.00508	0.003048	0.06096
64	1.621858	0.000838	0.00508	0.003145	0.06096
65	1.862366	0.000982	0.01016	0.005252	0.09144
66	3.63296	0.002817	0.00762	0.002032	0.09144
67	2.801524	0.002361	0.0381	0.013063	0.24384
68	2.997496	0.002133	0.00508	0.001626	0.03048
69	1.168285	0.00063	0.02286	0.017698	0.18288
70	2.612865	0.001491	0.03048	0.011084	0.12192

71	3.58492	0.003235	0.03556	0.009589	0.12192
72	2.263676	0.001306	0.020541	0.01051	0.1524
73	1.535043	0.000832	0.0127	0.009262	0.06096
74	3.151302	0.003627	0.03302	0.01016	0.24384
75	2.89738	0.002079	0.03556	0.011691	0.12192
76	3.052309	0.006792	0.04318	0.013636	0.3048
77	3.027023	0.002315	0.0254	0.008128	0.12192
78	2.872872	0.003261	0.0254	0.008467	0.06096
79	2.422681	0.001688	0.01524	0.005996	0.1524
80	2.09853	0.001274	0.009136	0.004516	0.06096
81	2.50705	0.003427	0.02032	0.007741	0.18288
82	2.919133	0.003686	0.02032	0.006681	0.09144
83	1.851065	0.001018	0.00254	0.00127	0.03048
84	2.931808	0.005947	0.04572	0.014828	0.18288
85	2.269157	0.002534	0.02286	0.009459	0.18288
86	2.348399	0.001672	0.00361	0.002066	0.03048
87	2.391401	0.001681	0.01524	0.006096	0.09144
88	3.607514	0.002324	0.01778	0.004741	0.06096
89	2.066684	0.001083	0.02032	0.009031	0.09144
90	2.463005	0.001946	0.00508	0.001966	0.03048
91	2.674262	0.003017	0.03302	0.011828	0.09144
92	2.302295	0.001993	0.01778	0.007233	0.06096
93	2.845209	0.002847	0.03302	0.011162	0.12192
94	3.826669	0.002549	0.02032	0.005133	0.12192
95	2.534223	0.004454	0.0508	0.01905	0.18288
96	1.499261	0.000671	0.01524	0.009378	0.09144
97	2.174544	0.002049	0.02286	0.009797	0.09144
98	1.692756	0.00075	0.02286	0.012469	0.1524
99	2.082025	0.001039	0.01524	0.006901	0.1524
100	3.875721	0.003594	0.04318	0.010795	0.12192
101	1.063655	0.000518	0.00762	0.006306	0.06096
102	2.692471	0.002211	0.01778	0.006369	0.09144
103	2.538594	0.001629	0.01524	0.005715	0.09144
104	1.53545	0.000871	0.01016	0.006096	0.06096
105	4.089066	0.004346	0.05334	0.012675	0.21336
106	2.13093	0.002379	0.03048	0.013547	0.3048
107	1.574816	0.001031	0.00254	0.001487	0.03048
108	2.912903	0.009733	0.09398	0.030898	0.36576
109	2.398518	0.006625	0.00254	0.001016	0.03048
110	1.089669	0.000571	0.02032	0.017196	0.24384
111	2.105819	0.001454	0.01016	0.004516	0.12192
112	1.274246	0.000677	0.01524	0.010758	0.18288
113	2.867853	0.002038	0.02032	0.006773	0.06096

114	1.990103	0.00106	0.01778	0.008367	0.09144
115	2.646114	0.003023	0.02794	0.010008	0.1524
116	2.072874	0.001054	0.01016	0.004689	0.09144
117	4.230632	0.004964	0.04572	0.01045	0.21336
118	2.581326	0.002276	0.02286	0.008441	0.06096
119	2.039293	0.001241	0.00508	0.002345	0.03048
120	3.127109	0.002017	0.0127	0.003908	0.12192
121	2.563222	0.00347	0.02286	0.008573	0.09144
122	2.54625	0.002417	0.01524	0.005627	0.18288
123	2.408819	0.003087	0.02032	0.007995	0.18288
124	2.844841	0.003376	0.0254	0.008586	0.09144
125	2.556465	0.002324	0.03048	0.011254	0.1524
126	2.551429	0.002471	0.01778	0.006667	0.06096
127	2.817288	0.003979	0.04064	0.013737	0.21336
128	1.142993	0.000492	0.003416	0.004577	0.06096
129	2.204738	0.001418	0.0127	0.005443	0.06096
130	3.03814	0.001773	0.018168	0.006417	0.06096
131	3.435996	0.003063	0.02794	0.007889	0.09144
132	1.904089	0.001388	0.01778	0.008709	0.21336
133	1.080141	0.000482	0.00254	0.002102	0.03048
134	2.125823	0.001098	0.04572	0.02032	0.24384
135	2.253518	0.001342	0.02286	0.009625	0.1524
136	2.845101	0.001726	0.03556	0.011853	0.39624
137	1.90145	0.000932	0.01016	0.004976	0.03048
138	2.31754	0.001363	0.02794	0.011561	0.21336
139	1.895264	0.000889	0.02794	0.014296	0.1524
140	1.820715	0.001091	0.00762	0.003891	0.06096
141	2.735207	0.001948	0.01778	0.006184	0.06096
142	2.352553	0.001502	0.02286	0.009816	0.06096
143	2.478532	0.001672	0.0254	0.009832	0.09144
144	1.883579	0.000886	0.01524	0.007793	0.12192
145	9.328183	0.008852	0.06604	0.006982	0.12192
146	3.716123	0.007917	0.04572	0.011927	0.09144
147	1.967903	0.001029	0.01016	0.004877	0.06096
148	2.729189	0.003176	0.03556	0.012369	0.09144
149	2.719627	0.003673	0.049028	0.017929	0.18288
150	2.661054	0.002702	0.06858	0.02472	0.27432
151	1.969585	0.001117	0.01524	0.007172	0.18288
152	2.478824	0.002163	0.04318	0.016715	0.24384
153	1.893581	0.001149	0.01016	0.00508	0.06096
154	3.170719	0.004218	0.0381	0.011575	0.1524
155	2.629114	0.003523	0.03048	0.011084	0.21336
156	1.782549	0.000828	0.01016	0.005301	0.12192

157	1.985402	0.001433	0.01524	0.007315	0.09144
158	2.407501	0.00205	0.02032	0.007995	0.09144
159	1.707439	0.000905	0.01016	0.005542	0.09144
160	2.650304	0.001889	0.01778	0.006465	0.12192
161	2.447418	0.004027	0.03048	0.011799	0.21336
162	2.908871	0.003605	0.01524	0.00501	0.12192
163	1.233196	0.000381	0.01524	0.011084	0.1524
164	2.027874	0.00102	0.0127	0.005862	0.1524
165	1.530901	0.001012	0.00508	0.003048	0.06096
166	3.233577	0.005366	0.08636	0.025908	0.27432
167	3.527167	0.00644	0.044931	0.012612	0.1524
168	2.27767	0.001618	0.04826	0.02032	0.54864
169	2.400654	0.001543	0.033722	0.013991	0.09144
170	3.761507	0.002637	0.08636	0.022286	0.39624
171	2.304692	0.00354	0.03302	0.013663	0.1524
172	1.892983	0.001071	0.01778	0.00889	0.1524
173	1.648549	0.000856	0.01524	0.008709	0.1524
174	1.897857	0.000913	0.0127	0.00635	0.12192
175	2.794548	0.002175	0.0254	0.008709	0.09144
176	2.98337	0.001863	0.01016	0.003208	0.06096
177	6.939621	0.011386	0.06858	0.009739	0.09144
178	2.138081	0.001401	0.0127	0.005542	0.09144
179	2.217865	0.001291	0.01016	0.004354	0.09144
180	2.5983	0.002158	0.01778	0.006465	0.12192
181	1.670062	0.000811	0.00762	0.004253	0.03048
182	2.953033	0.003436	0.0254	0.008351	0.09144
183	2.123127	0.001151	0.01016	0.004516	0.06096
184	2.334308	0.001483	0.00762	0.0031	0.06096
185	1.401346	0.000677	0.01016	0.00659	0.06096
186	2.671299	0.002724	0.02286	0.008189	0.1524
187	1.294013	0.000834	0.00508	0.004118	0.06096
188	3.05129	0.001986	0.02032	0.006417	0.06096
189	2.278388	0.003725	0.04064	0.016817	0.33528
190	3.171488	0.002183	0.03556	0.011049	0.12192
191	3.278755	0.002351	0.04064	0.011895	0.12192
192	2.480032	0.001398	0.02032	0.007741	0.18288
193	2.418584	0.002037	0.02032	0.007995	0.12192
194	1.816951	0.000979	0.00254	0.001297	0.03048
195	3.30294	0.003488	0.02794	0.008079	0.12192
196	1.637508	0.000665	0.003542	0.002903	0.03048
197	3.845642	0.004709	0.04064	0.01016	0.12192
198	2.705311	0.003268	0.02286	0.008068	0.18288
199	3.560512	0.002294	0.00762	0.002055	0.06096

200	2.117157	0.001797	0.01016	0.004516	0.03048
201	1.9744	0.000954	0.01016	0.005464	0.09144
202	2.685276	0.001874	0.00762	0.002995	0.09144
203	3.588722	0.003135	0.04318	0.011644	0.1524
204	1.898532	0.00092	0.01524	0.00762	0.06096
205	2.261464	0.00232	0.03302	0.014203	0.12192
206	2.923861	0.00716	0.08636	0.028392	0.3048
207	1.421665	0.000644	0.001254	0.003295	0.06096
208	5.036988	0.008664	0.0635	0.01239	0.27432
209	2.187416	0.002099	0.0254	0.011084	0.21336
210	2.039338	0.001046	0.0127	0.005862	0.09144
211	4.726652	0.006876	0.04318	0.008857	0.21336
212	2.188576	0.0013	0.00762	0.003325	0.03048
213	3.968688	0.004138	0.03302	0.008087	0.21336
214	1.984775	0.001002	0.00508	0.002496	0.03048
215	2.319708	0.001358	0.00762	0.0031	0.09144
216	1.74013	0.000859	0.00508	0.002709	0.03048
217	2.481455	0.001825	0.01778	0.006883	0.09144
218	2.194847	0.002215	0.03048	0.0133	0.18288
219	3.007626	0.002433	0.02032	0.006502	0.09144
220	2.815627	0.003565	0.01524	0.005286	0.18288
221	2.876458	0.003463	0.04826	0.016087	0.27432
222	2.805748	0.004495	0.04318	0.014805	0.18288
223	1.591168	0.000884	0.02032	0.012498	0.09144
224	2.567987	0.001728	0.01524	0.005715	0.1524
225	2.164377	0.001292	0.02286	0.009975	0.18288
226	1.311974	0.000594	0.00762	0.005225	0.03048
227	1.646128	0.000784	0.0254	0.01457	0.18288
228	2.756202	0.002075	0.03048	0.010602	0.27432
229	4.732987	0.003563	0.07112	0.014714	0.27432
230	2.839124	0.002116	0.0127	0.004293	0.1524
231	3.979142	0.003833	0.0762	0.018473	0.3048
232	2.558319	0.00163	0.01016	0.00381	0.03048
233	2.947215	0.002064	0.0254	0.008238	0.1524
234	2.093611	0.001123	0.01778	0.008051	0.12192
235	2.367229	0.001361	0.02286	0.009144	0.06096
236	3.26363	0.003315	0.03302	0.009784	0.1524
237	2.803927	0.003596	0.0381	0.013063	0.18288
238	3.289032	0.003554	0.07112	0.020816	0.48768
239	1.690494	0.000842	0.02032	0.011084	0.12192
240	2.540951	0.004582	0.04826	0.018097	0.1524
241	1.682176	0.000807	0.01016	0.00602	0.03048
242	2.365071	0.00159	0.00762	0.0031	0.06096

243	2.262454	0.002503	0.02794	0.011764	0.09144
244	2.297582	0.00176	0.0127	0.005255	0.09144
245	2.022588	0.001051	0.00508	0.002391	0.06096
246	3.517223	0.005186	0.04572	0.012612	0.1524
247	2.20283	0.002101	0.02286	0.009797	0.12192
248	1.437745	0.000705	0.01524	0.009625	0.09144
249	2.911923	0.002056	0.09652	0.031733	0.21336
250	1.499576	0.000702	0.01524	0.009378	0.1524
251	1.535223	0.00074	0.01778	0.010668	0.09144
252	1.371838	0.000672	0.01778	0.012307	0.06096
253	2.229164	0.001275	0.0127	0.005443	0.06096
254	2.484934	0.002496	0.03302	0.012782	0.1524
255	2.38263	0.001618	0.01778	0.007238	0.06096
256	3.517891	0.004855	0.067153	0.018919	0.12192
257	1.529718	0.000693	0.01016	0.006462	0.06096
258	3.240477	0.003869	0.0381	0.011289	0.27432
259	2.668507	0.002775	0.02286	0.008189	0.18288
260	1.902329	0.00145	0.01524	0.00762	0.12192
261	2.667473	0.002998	0.0254	0.009099	0.09144
262	3.551805	0.004788	0.04826	0.013162	0.09144
263	3.294653	0.005583	0.04318	0.012638	0.18288
264	2.149024	0.001472	0.00508	0.002217	0.03048
265	1.608382	0.000941	0.0127	0.007434	0.06096
266	2.654693	0.002559	0.02032	0.007279	0.09144
267	2.365165	0.001431	0.0254	0.01016	0.12192
268	1.500511	0.000744	0.00254	0.001563	0.03048
269	2.818768	0.002486	0.01778	0.00601	0.21336
270	1.561968	0.000849	0.00254	0.001524	0.03048
271	5.056525	0.009029	0.07112	0.013765	0.36576
272	2.993832	0.003839	0.02794	0.009062	0.1524
273	2.94778	0.003828	0.02794	0.009062	0.06096
274	2.880391	0.005945	0.08128	0.026722	0.48768
275	2.02476	0.001058	0.049501	0.023446	0.18288
276	2.23489	0.002141	0.04826	0.020683	0.18288
277	2.068267	0.001077	0.000574	0.00115	0.03048
278	2.810011	0.003355	0.01524	0.005152	0.06096
279	2.233118	0.001813	0.01016	0.004278	0.09144
280	4.495937	0.00381	0.03302	0.007139	0.09144
281	2.166502	0.001594	0.01016	0.004433	0.12192
282	3.646583	0.004549	0.03556	0.009483	0.09144
283	2.348236	0.001396	0.01016	0.004133	0.12192
284	2.921749	0.002987	0.0254	0.008351	0.18288
285	2.569317	0.002434	0.02286	0.008572	0.12192

286	3.079887	0.004934	0.08128	0.025667	0.33528
287	1.842549	0.001041	0.00508	0.002594	0.03048
288	2.627608	0.002423	0.02286	0.008313	0.12192
289	2.44106	0.001816	0.02032	0.007995	0.1524
290	1.273205	0.000707	0.02286	0.018771	0.24384
291	1.230546	0.000556	0.01524	0.01143	0.12192
292	2.540251	0.001626	0.02286	0.008587	0.21336
293	1.987406	0.000921	0.01016	0.004877	0.09144
294	3.477949	0.002084	0.02032	0.005606	0.09144
295	3.214163	0.002031	0.01016	0.003048	0.06096
296	2.622276	0.004435	0.02794	0.01016	0.1524
297	2.789335	0.001936	0.01016	0.003483	0.06096
298	2.649472	0.004243	0.03302	0.011828	0.24384
299	2.713588	0.002521	0.01524	0.005379	0.09144
300	2.411001	0.001746	0.0127	0.004997	0.06096
301	3.25708	0.006081	0.05842	0.01731	0.24384
302	2.730005	0.007974	0.0889	0.030922	0.67056
303	3.055486	0.005531	0.03822	0.012667	0.1524
304	3.682606	0.004465	0.03556	0.009277	0.09144
305	2.357687	0.001407	0.00762	0.0031	0.06096
306	2.601176	0.002768	0.02286	0.008599	0.1524
307	1.951041	0.001086	0.00508	0.002391	0.03048
308	2.465217	0.001907	0.00762	0.002903	0.09144
309	2.380227	0.003248	0.0254	0.01016	0.12192
310	1.414623	0.000499	0.00762	0.00508	0.06096
311	2.109526	0.001138	0.03064	0.014676	0.12192
312	2.314197	0.00161	0.0127	0.005255	0.09144
313	2.145907	0.001286	0.005617	0.003325	0.03048
314	1.56817	0.000771	0.00254	0.001487	0.03048
315	2.44051	0.001571	0.0127	0.005097	0.06096
316	2.64493	0.002066	0.01778	0.006369	0.09144
317	2.638134	0.004428	0.01778	0.006465	0.12192
318	2.402898	0.002054	0.0127	0.005159	0.06096
319	4.59774	0.013808	0.26416	0.056105	0.64008
320	2.007436	0.001191	0.01524	0.007172	0.06096
321	2.106953	0.001154	0.001514	0.001493	0.048651
322	2.750245	0.003658	0.04572	0.015903	0.24384
323	3.140167	0.007499	0.0508	0.015631	0.24384
324	2.750298	0.003367	0.0127	0.004821	0.09144
325	1.861691	0.001277	0.00254	0.00127	0.03048
326	7.911283	0.004541	0.11176	0.013898	0.36576
327	2.440498	0.001754	0.002154	0.001423	0.056322
328	2.268825	0.003086	0.02794	0.011767	0.24384

329	2.28884	0.001473	0.01524	0.006306	0.06096
330	2.355433	0.00155	0.00254	0.001016	0.03048
331	2.64346	0.002783	0.0127	0.004618	0.09144
332	2.004879	0.001007	0.00254	0.001195	0.03048
333	2.54361	0.00251	0.00254	0.000952	0.03048
334	2.304393	0.001511	0.02032	0.008408	0.24384
335	2.82658	0.005201	0.04572	0.015455	0.54864
336	5.882694	0.004961	0.0381	0.00635	0.27432
337	2.476116	0.001774	0.03048	0.011799	0.33528
338	3.09943	0.003128	0.09652	0.029698	0.27432
339	2.109862	0.001196	0.0127	0.005644	0.1524
340	2.812359	0.002485	0.04572	0.015455	0.54864
341	3.438588	0.002088	0.07112	0.019847	0.67056
342	2.639394	0.002446	0.04826	0.017549	0.39624
343	2.53742	0.001817	0.01016	0.00381	0.06096
344	1.209614	0.000525	0.00762	0.006667	0.03048
345	1.940334	0.001092	0.00762	0.004097	0.06096
346	3.366181	0.002714	0.0127	0.003809	0.1524
347	1.738585	0.001115	0.002812	0.002709	0.03048
348	4.782459	0.004746	0.04318	0.008782	0.36576
349	3.368549	0.005956	0.0254	0.007172	0.21336
350	2.664512	0.004823	0.01016	0.003695	0.06096
351	3.176148	0.004267	0.06096	0.018519	0.33528
352	2.385108	0.00158	0.09398	0.036976	0.64008
353	1.984085	0.000953	0.00508	0.002391	0.03048
354	3.344808	0.00615	0.00762	0.002177	0.06096
355	2.263102	0.002021	0.00254	0.001069	0.03048
356	2.975387	0.004694	0.03556	0.011379	0.36576
357	4.440604	0.00443	0.0635	0.013982	0.36576
358	2.062082	0.001167	0.0381	0.017676	0.12192
359	3.927098	0.013821	0.23228	0.058619	0.51816
360	3.088115	0.003984	0.0254	0.007917	0.12192
361	2.094371	0.001993	0.04826	0.021854	0.24384
362	1.579434	0.000751	0.018184	0.01698	0.21336
363	1.839899	0.000931	0.022779	0.013475	0.090474

C3

Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	3.091312	0.002325	0.01778	0.005542	0.09144
2	3.562799	0.003242	0.00762	0.002055	0.06096
3	3.700943	0.004207	0.0381	0.010254	0.21336
4	4.7557	0.006514	0.02794	0.005731	0.09144
5	2.914223	0.003966	0.04318	0.014196	0.1524

6	2.613364	0.001257	0.01524	0.005542	0.12192
7	4.359654	0.004894	0.060643	0.013697	0.1524
8	2.07177	0.001328	0.03048	0.014153	0.1524
9	2.197324	0.001086	0.01524	0.006885	0.12192
10	2.383356	0.000913	0.00254	0.001193	0.03048
11	3.270331	0.003938	0.03302	0.009976	0.09144
12	2.717535	0.00159	0.01917	0.007172	0.12192
13	4.001922	0.003436	0.03556	0.008789	0.12192
14	2.961183	0.002323	0.0127	0.004074	0.09144
15	2.821121	0.00177	0.01524	0.005152	0.06096
16	3.12666	0.002965	0.0127	0.003908	0.09144
17	1.922553	0.00102	0.00508	0.002438	0.06096
18	2.072323	0.000912	0.01016	0.005049	0.06096
19	3.438449	0.005317	0.05842	0.016495	0.21336
20	2.961572	0.002351	0.02794	0.009062	0.33528
21	2.415693	0.000731	0.0127	0.004997	0.09144
22	2.433981	0.00264	0.05588	0.021288	0.54864
23	2.774092	0.001941	0.01016	0.003483	0.06096
24	2.604688	0.004156	0.00254	0.000938	0.03048
25	3.128759	0.003772	0.04572	0.014068	0.33528
26	2.080561	0.000961	0.02032	0.009202	0.18288
27	2.626842	0.005698	0.01524	0.005542	0.12192
28	2.337062	0.000921	0.0127	0.005166	0.03048
29	2.109392	0.001405	0.06858	0.03048	0.79248
30	2.44193	0.001202	0.0127	0.005168	0.09144
31	2.32718	0.001218	0.01778	0.00749	0.06096
32	2.494718	0.004929	0.00508	0.001905	0.03048
33	2.212975	0.001482	0.01524	0.006531	0.06096
34	2.84602	0.0076	0.05334	0.01778	0.27432
35	2.756896	0.0016	0.01778	0.006184	0.12192
36	4.363312	0.005869	0.04572	0.01016	0.06096
37	3.48466	0.006046	0.02286	0.006306	0.1524
38	3.435311	0.003399	0.01778	0.004962	0.06096
39	4.37741	0.006756	0.03302	0.007338	0.09144
40	3.414928	0.003968	0.03556	0.01004	0.09144
41	4.759652	0.002801	0.01778	0.003673	0.06096
42	2.263611	0.000999	0.00508	0.002102	0.06096
43	3.125753	0.002189	0.0127	0.003908	0.06096
44	3.455133	0.002374	0.01524	0.004253	0.09144
45	3.437802	0.003682	0.02286	0.006455	0.09144
46	2.941533	0.002024	0.01778	0.005766	0.12192
47	2.854371	0.001802	0.01016	0.003387	0.09144
48	3.832948	0.006069	0.04318	0.010909	0.18288

49	3.027645	0.003156	0.0508	0.016042	0.24384
50	2.968766	0.001716	0.01524	0.004943	0.09144
51	3.191526	0.003077	0.04572	0.01389	0.21336
52	2.146719	0.001096	0.0127	0.006017	0.1524
53	3.346297	0.005024	0.03048	0.008813	0.3048
54	2.49923	0.003103	0.02286	0.008709	0.21336
55	2.87602	0.001769	0.01524	0.00508	0.06096
56	3.831631	0.002988	0.01778	0.004522	0.1524
57	3.710366	0.001804	0.048816	0.013252	0.1524
58	2.906335	0.002557	0.0254	0.008467	0.12192
59	3.397084	0.006011	0.02286	0.006455	0.09144
60	2.776611	0.006207	0.0254	0.008835	0.27432
61	3.237365	0.008618	0.05334	0.016002	0.21336
62	2.5524	0.001263	0.02286	0.008766	0.18288
63	2.529927	0.00127	0.01778	0.006874	0.12192
64	4.684534	0.004835	0.07366	0.015373	0.24384
65	1.765666	0.000507	0.05532	0.043741	0.314304
66	2.63874	0.00238	0.03302	0.012007	0.21336
67	2.198714	0.001145	0.00254	0.001089	0.03048
68	3.038787	0.002656	0.0508	0.016042	0.27432
69	1.813248	0.000862	0.011974	0.006816	0.06096
70	6.513196	0.006823	0.04318	0.006477	0.3048
71	3.189003	0.006049	0.02032	0.006096	0.12192
72	3.5992	0.005082	0.06858	0.018288	0.27432
73	1.810382	0.001032	0.005342	0.005837	0.09144
74	2.754247	0.002504	0.00508	0.001767	0.03048
75	2.616987	0.00616	0.00508	0.00182	0.03048
76	3.140677	0.003232	0.02032	0.006173	0.09144
77	2.201403	0.001	0.01778	0.00925	0.09144
78	5.312834	0.007472	0.05588	0.010238	0.12192
79	3.384852	0.004451	0.05842	0.016691	0.12192
80	1.789546	0.000871	0.01016	0.005301	0.12192
81	3.346462	0.003521	0.02286	0.00661	0.12192
82	2.476123	0.00138	0.00762	0.00295	0.09144
83	3.852828	0.00703	0.067774	0.017427	0.09144
84	2.592723	0.001438	0.00508	0.001876	0.06096
85	4.98227	0.004153	0.01524	0.002974	0.06096
86	4.231016	0.00264	0.03048	0.00709	0.09144
87	3.115608	0.002966	0.0127	0.003908	0.06096
88	2.205178	0.001039	0.00254	0.001089	0.03048
89	2.724893	0.001603	0.00508	0.001767	0.03048
90	2.932219	0.002021	0.02794	0.009186	0.09144
91	2.973551	0.002071	0.02794	0.008941	0.12192

92	2.826286	0.001691	0.02032	0.006869	0.1524
93	3.17531	0.002992	0.04064	0.012346	0.18288
94	3.300953	0.005993	0.05588	0.016158	0.18288
95	3.395254	0.002261	0.01778	0.00508	0.06096
96	3.332498	0.003757	0.02032	0.005876	0.09144
97	4.592843	0.003646	0.04064	0.008632	0.1524
98	3.476325	0.008454	0.05334	0.014886	0.1524
99	2.597475	0.002198	0.00762	0.002771	0.09144
100	2.494833	0.002996	0.02032	0.007741	0.24384
101	4.397296	0.009421	0.04318	0.009508	0.1524
102	3.503968	0.006702	0.0889	0.024524	0.82296
103	2.497486	0.00211	0.00254	0.000968	0.03048
104	2.621685	0.001657	0.02286	0.008313	0.27432
105	6.184881	0.013531	0.11684	0.018571	0.57912
106	3.121893	0.007706	0.0381	0.011723	0.24384
107	2.897458	0.001893	0.02286	0.007516	0.09144
108	2.940831	0.001908	0.01016	0.00334	0.09144
109	2.390452	0.001328	0.00762	0.003464	0.03048
110	4.464379	0.003914	0.01778	0.003879	0.06096
111	6.880382	0.006163	0.03556	0.00508	0.06096
112	3.07713	0.002786	0.0254	0.007917	0.09144
113	1.856279	0.000841	0.00762	0.00381	0.03048
114	2.851175	0.001854	0.01778	0.005927	0.09144
115	3.155139	0.003128	0.0127	0.003858	0.06096
116	4.386339	0.005455	0.04064	0.008948	0.1524
117	2.940857	0.001689	0.03048	0.010021	0.21336
118	2.524699	0.001151	0.01778	0.006667	0.18288
119	3.132287	0.005313	0.06096	0.018757	0.27432
120	3.300381	0.003251	0.015848	0.005895	0.117633
121	4.230998	0.004811	0.0254	0.005841	0.06096
122	6.849863	0.009539	0.049354	0.007483	0.27432
123	5.882926	0.006718	0.12446	0.020743	0.27432
124	2.289723	0.004481	0.00762	0.003153	0.09144
125	2.650866	0.002921	0.01778	0.006369	0.21336
126	2.271506	0.00142	0.02032	0.008266	0.18288
127	4.54867	0.002663	0.01514	0.003266	0.06096
128	3.400888	0.007946	0.06858	0.019594	0.48768
129	4.263989	0.008498	0.07366	0.016939	0.21336
130	2.959246	0.003168	0.04064	0.013181	0.18288
131	3.172635	0.003215	0.04318	0.013118	0.1524
132	3.076864	0.002097	0.0254	0.007917	0.06096
133	2.300161	0.000959	0.01016	0.004499	0.12192
134	2.995987	0.002064	0.01778	0.00569	0.1524

135	4.89754	0.006522	0.04318	0.008565	0.12192
136	3.309215	0.004941	0.05842	0.017099	0.18288
137	3.370709	0.002755	0.0254	0.00762	0.09144
138	2.367165	0.001279	0.0127	0.00508	0.09144
139	3.370305	0.004188	0.04064	0.011475	0.18288
140	3.108184	0.004775	0.04572	0.014068	0.21336
141	2.585193	0.001381	0.00762	0.002814	0.09144
142	1.890031	0.000771	0.00762	0.00381	0.09144
143	3.250042	0.004396	0.03556	0.010536	0.24384
144	2.931445	0.001887	0.01778	0.005845	0.06096
145	2.3451	0.00116	0.0127	0.005166	0.12192
146	1.779782	0.001082	0.00254	0.001355	0.03048
147	6.810435	0.01688	0.14478	0.020807	0.36576
148	3.338401	0.005244	0.01524	0.004407	0.1524
149	2.662397	0.001377	0.010966	0.004694	0.12192
150	5.265869	0.0056	0.0381	0.007034	0.21336
151	3.581591	0.003566	0.03048	0.008219	0.1524
152	4.917244	0.008167	0.02794	0.005542	0.12192
153	3.096341	0.00414	0.02286	0.007125	0.09144
154	1.897814	0.001017	0.00508	0.002824	0.03048
155	2.769193	0.00167	0.00762	0.00265	0.06096
156	2.916193	0.001931	0.0127	0.004175	0.1524
157	2.978115	0.001979	0.01524	0.004943	0.09144
158	3.139638	0.003496	0.04064	0.012346	0.09144
159	2.972236	0.002926	0.0381	0.012357	0.27432
160	2.841394	0.001966	0.02286	0.007727	0.21336
161	3.027633	0.002754	0.04572	0.014438	0.21336
162	3.216549	0.002153	0.03302	0.009906	0.09144
163	2.883968	0.002028	0.02032	0.006773	0.18288
164	2.597556	0.001347	0.000861	0.000924	0.03048
165	2.244133	0.000533	0.01524	0.006417	0.1524
166	3.307003	0.003364	0.02286	0.00661	0.1524
167	3.213727	0.002009	0.02032	0.006021	0.1524
168	2.453347	0.002719	0.04318	0.016715	0.51816
169	2.591918	0.002749	0.0127	0.004618	0.1524
170	1.77126	0.000429	0.01524	0.007951	0.12192
171	3.455533	0.003648	0.04318	0.011912	0.18288
172	3.299124	0.003276	0.07112	0.020816	0.42672
173	4.085127	0.008533	0.10668	0.02535	0.6096
174	2.993436	0.002264	0.01016	0.003251	0.06096
175	2.135725	0.001053	0.00762	0.003325	0.06096
176	3.529981	0.008208	0.03302	0.009005	0.12192
177	3.896889	0.007125	0.03302	0.008255	0.09144

178	3.468013	0.003115	0.02794	0.007708	0.1524
179	2.051975	0.001033	0.004487	0.002794	0.053848
180	4.187215	0.004318	0.02286	0.005327	0.09144
181	3.226022	0.003254	0.02794	0.008279	0.18288
182	2.132997	0.001109	0.00762	0.003325	0.06096
183	4.248165	0.003299	0.020597	0.005257	0.09144
184	3.113027	0.002425	0.02032	0.006252	0.1524
185	3.025144	0.002538	0.03048	0.009625	0.21336
186	3.088308	0.002606	0.02794	0.008709	0.27432
187	2.165551	0.000941	0.00762	0.003325	0.03048
188	3.710531	0.003	0.03302	0.00882	0.1524
189	2.857189	0.00194	0.0127	0.004233	0.1524
190	2.494792	0.001294	0.03048	0.011611	0.21336
191	2.241064	0.000827	0.00762	0.003208	0.09144
192	1.721169	0.000937	0.02032	0.011447	0.12192
193	2.868245	0.001933	0.02286	0.00762	0.1524
194	2.69352	0.001284	0.02032	0.007172	0.18288
195	2.502233	0.00087	0.00508	0.001935	0.03048
196	2.56578	0.000923	0.007562	0.00392	0.07585
197	3.480027	0.009451	0.02032	0.005606	0.24384
198	3.119559	0.002774	0.04826	0.016645	0.3048
199	2.522448	0.002348	0.0254	0.009525	0.18288
200	2.471452	0.000934	0.01778	0.006883	0.1524
201	3.274115	0.00522	0.0381	0.011289	0.27432
202	2.949774	0.002302	0.0381	0.012357	0.42672
203	3.501613	0.006514	0.0254	0.007007	0.18288
204	3.356235	0.005767	0.000135	0.000726	0.03048
205	3.620096	0.009051	0.0635	0.017124	0.24384
206	4.293805	0.002938	0.02032	0.004601	0.09144
207	2.145894	0.000857	0.00254	0.001129	0.03048
208	3.727086	0.002981	0.02286	0.005963	0.09144
209	3.760033	0.007278	0.03302	0.008521	0.24384
210	4.356446	0.007175	0.04064	0.009031	0.27432
211	2.608394	0.001397	0.02286	0.008313	0.18288
212	2.921779	0.001935	0.0127	0.004175	0.06096
213	2.508805	0.001475	0.02032	0.007741	0.24384
214	3.406384	0.002112	0.0254	0.007257	0.1524
215	4.376951	0.003253	0.03048	0.006773	0.18288
216	2.30336	0.000818	0.03556	0.014465	0.21336
217	1.798389	0.001154	0.00508	0.00321	0.06096
218	2.037068	0.001241	0.00762	0.003616	0.03048
219	4.536485	0.013228	0.05588	0.011974	0.21336
220	2.066783	0.001344	0.02032	0.009452	0.1524

221	2.182777	0.002861	0.050501	0.022316	0.42672
222	2.536592	0.003606	0.01524	0.005998	0.12192
223	2.180196	0.001127	0.0127	0.005542	0.1524
224	2.290099	0.000686	0.00762	0.003153	0.03048
225	2.44869	0.00098	0.02032	0.007866	0.09144
226	3.804457	0.008163	0.01778	0.00454	0.12192
227	3.309897	0.00347	0.03556	0.010408	0.12192
228	5.36426	0.003482	0.03048	0.005542	0.09144
229	4.924328	0.004147	0.04064	0.008061	0.1524
230	2.879809	0.001833	0.01016	0.003387	0.06096
231	3.359036	0.003886	0.02794	0.008079	0.09144
232	2.980299	0.00208	0.01016	0.003295	0.09144
233	3.059366	0.002392	0.03302	0.010427	0.27432
234	2.974524	0.002175	0.02032	0.00659	0.18288
235	2.933697	0.001948	0.00097	0.000981	0.042115
236	3.248997	0.003842	0.03556	0.010536	0.1524
237	2.544661	0.001462	0.00254	0.000952	0.03048
238	8.608607	0.005611	0.04064	0.004702	0.18288
239	1.721483	0.001025	0.01778	0.009698	0.18288
240	2.511576	0.001547	0.00762	0.002903	0.03048
241	3.555658	0.008045	0.06858	0.018704	0.33528
242	2.371801	0.001195	0.01524	0.006096	0.09144
243	3.072325	0.002346	0.01778	0.005542	0.1524
244	3.04542	0.002227	0.02286	0.007219	0.18288
245	3.012134	0.002651	0.03302	0.010427	0.12192
246	2.832445	0.001796	0.01778	0.00601	0.21336
247	2.903766	0.001878	0.01778	0.005845	0.09144
248	3.486494	0.003366	0.0381	0.01051	0.18288
249	2.409473	0.001235	0.0127	0.00508	0.09144
250	2.512416	0.0011	0.00762	0.002903	0.03048
251	2.453592	0.001914	0.03048	0.011799	0.3048
252	2.07883	0.00097	0.01016	0.004601	0.09144
253	2.535981	0.001743	0.11176	0.041925	0.51816
254	6.662613	0.005974	0.05588	0.008228	0.18288
255	2.675962	0.00144	0.01524	0.005379	0.06096
256	2.732071	0.001629	0.01524	0.005301	0.06096
257	4.100077	0.003653	0.01524	0.003621	0.06096
258	4.252954	0.007359	0.03302	0.007547	0.06096
259	3.264975	0.004012	0.00254	0.000753	0.03048
260	1.70371	0.000372	0.014765	0.008442	0.12192
261	2.744826	0.002143	0.03048	0.010602	0.12192
262	3.229199	0.005382	0.03302	0.009784	0.21336
263	2.537367	0.00124	0.0127	0.004763	0.06096

264	3.300665	0.003825	0.0254	0.007345	0.12192
265	3.221782	0.003623	0.02286	0.006858	0.06096
266	2.808096	0.004324	0.0635	0.021465	0.57912
267	2.659587	0.001321	0.01778	0.006369	0.06096
268	2.765481	0.005538	0.03048	0.01045	0.3048
269	2.97733	0.002239	0.04826	0.015787	0.39624
270	2.28919	0.001245	0.03302	0.014183	0.39624
271	2.818909	0.001866	0.0381	0.012879	0.42672
272	5.528813	0.00884	0.062454	0.012102	0.21336
273	3.626213	0.001706	0.056881	0.015579	0.39624
274	3.143574	0.0031	0.02032	0.006173	0.12192
275	2.898846	0.003309	0.05588	0.018627	0.27432
276	1.834499	0.000723	0.0381	0.019485	0.21336
277	3.185615	0.003002	0.02032	0.006173	0.06096
278	3.525284	0.003658	0.02032	0.005606	0.09144
279	7.027138	0.004946	0.0254	0.003544	0.09144
280	1.717309	0.0009	0.0027	0.002709	0.03048
281	3.207026	0.00303	0.01524	0.004572	0.12192
282	2.936053	0.001736	0.0127	0.004175	0.03048
283	3.1599	0.002629	0.02286	0.006945	0.1524
284	2.981476	0.002207	0.02032	0.006502	0.12192
285	3.120733	0.002639	0.01778	0.005471	0.09144
286	1.818246	0.00083	0.00254	0.002154	0.040271
287	3.294167	0.004864	0.0508	0.015047	0.39624
288	3.021468	0.002037	0.0254	0.008128	0.06096
289	2.194012	0.001017	0.00762	0.003266	0.06096
290	5.169838	0.005612	0.052552	0.01008	0.33528
291	3.258274	0.002774	0.03556	0.010408	0.27432
292	4.487203	0.008939	0.0889	0.019396	0.3048
293	3.009678	0.002155	0.02032	0.006417	0.09144
294	12.90873	0.017765	0.09906	0.00779	0.24384
295	6.717166	0.005527	0.06604	0.009606	0.12192
296	3.109983	0.002339	0.02286	0.007034	0.06096
297	3.107379	0.002077	0.01016	0.003167	0.06096
298	3.348447	0.003139	0.037506	0.011298	0.12192
299	2.16186	0.001112	0.00508	0.002629	0.06096
300	3.316699	0.003348	0.00508	0.001487	0.03048
301	1.741436	0.000879	0.00254	0.001385	0.03048
302	5.016141	0.003513	0.04064	0.00793	0.18288
303	2.005834	0.000898	0.00508	0.002391	0.06096
304	4.096577	0.010758	0.1397	0.033196	1.03632
305	3.779249	0.003579	0.02032	0.005188	0.12192
306	2.770431	0.001518	0.01778	0.006096	0.06096

307	2.643161	0.001329	0.01016	0.003695	0.06096
308	2.651096	0.001526	0.01016	0.003639	0.06096
309	2.773668	0.001652	0.0127	0.004354	0.03048
310	3.358567	0.003026	0.0254	0.007257	0.12192
311	2.871857	0.001838	0.01778	0.005845	0.12192
312	3.025633	0.002913	0.037707	0.012192	0.21336
313	2.545734	0.001127	0.01016	0.00381	0.06096
314	2.817599	0.00173	0.02286	0.007838	0.09144
315	2.845666	0.002124	0.04318	0.014596	0.27432
316	3.176988	0.002857	0.05588	0.016976	0.24384
317	4.913775	0.005369	0.06096	0.012446	0.12192
318	1.607075	0.000896	0.001185	0.001451	0.03048
319	2.990558	0.00207	0.03048	0.009754	0.3048
320	3.338468	0.004124	0.0127	0.003672	0.12192
321	5.977101	0.004583	0.06604	0.010782	0.54864
322	5.149652	0.006518	0.08636	0.01645	0.39624
323	2.997846	0.002741	0.03302	0.010566	0.21336
324	2.290871	0.001688	0.03302	0.013663	0.1524
325	2.479317	0.001234	0.0127	0.004959	0.09144
326	3.723033	0.002255	0.01016	0.002648	0.06096
327	5.848299	0.003762	0.023169	0.004311	0.06096
328	3.130777	0.002472	0.024971	0.007815	0.06096
329	3.076373	0.002786	0.0127	0.003958	0.03048
330	2.283866	0.001026	0.00254	0.001069	0.03048
331	4.242284	0.003386	0.0254	0.005806	0.09144
332	2.891846	0.002106	0.02794	0.009186	0.09144
333	3.476426	0.004045	0.06096	0.017012	0.21336
334	3.443213	0.005413	0.0635	0.017721	0.33528
335	2.746567	0.0023	0.0254	0.008835	0.18288
336	4.030082	0.004099	0.00762	0.001829	0.03048
337	3.442146	0.002381	0.02032	0.005777	0.18288
338	2.83958	0.003587	0.00508	0.001693	0.06096
339	2.716004	0.001877	0.03302	0.0118	0.1524
340	2.015792	0.000974	0.00254	0.00115	0.03048
341	3.337267	0.00405	0.03048	0.008813	0.09144
342	4.475452	0.006591	0.151943	0.033251	1.15824
343	3.070556	0.002232	0.0254	0.007917	0.1524
344	3.372153	0.003761	0.01016	0.002903	0.09144
345	3.851272	0.005648	0.0508	0.0127	0.3048
346	2.988198	0.001942	0.00762	0.002438	0.06096
347	3.430368	0.003002	0.0127	0.003586	0.12192
348	3.160767	0.002873	0.03048	0.009378	0.27432
349	3.052139	0.00226	0.01524	0.004813	0.12192

350	2.580304	0.001412	0.01778	0.006565	0.09144
351	3.176926	0.002628	0.01524	0.004572	0.12192
352	5.328426	0.004322	0.03556	0.006681	0.09144
353	2.665104	0.001336	0.0254	0.009099	0.12192
354	2.340037	0.001094	0.01016	0.004133	0.06096
355	2.943526	0.002424	0.01524	0.004943	0.12192
356	2.266522	0.001179	0.01524	0.00686	0.12192
357	3.210437	0.002888	0.02794	0.008382	0.12192
358	3.389631	0.005171	0.07366	0.02137	0.21336
359	1.523622	0.000565	0.00254	0.001524	0.03048
360	2.530787	0.001559	0.00508	0.001935	0.03048
361	5.166788	0.004452	0.05842	0.0112	0.18288
362	3.279344	0.002852	0.040026	0.012041	0.33528
363	2.820446	0.001731	0.00508	0.001742	0.03048
364	2.478345	0.00124	0.01016	0.003933	0.09144
365	2.758256	0.001894	0.01524	0.005301	0.09144
366	2.589027	0.001413	0.00254	0.000924	0.03048
367	2.182084	0.001049	0.01524	0.006724	0.12192
368	4.339377	0.002259	0.01016	0.002279	0.06096
369	2.893464	0.001831	0.02032	0.006773	0.12192
370	2.795288	0.00172	0.01778	0.006096	0.06096
371	3.139778	0.002539	0.02794	0.008597	0.09144
372	2.777047	0.001636	0.01524	0.005225	0.06096
373	2.139486	0.001092	0.00762	0.003849	0.06096
374	2.144595	0.000835	0.02286	0.009975	0.18288
375	3.450497	0.003298	0.03556	0.009924	0.09144
376	5.063231	0.004421	0.0635	0.012192	0.1524
377	3.418407	0.002581	0.02286	0.006455	0.12192
378	2.268888	0.001566	0.01016	0.004278	0.09144
379	5.587691	0.003428	0.05939	0.010679	0.21336
380	5.473787	0.003617	0.07366	0.013095	0.27432
381	4.178672	0.004719	0.08636	0.019929	0.24384
382	2.783934	0.006047	0.02032	0.007068	0.24384
383	4.540756	0.006936	0.02794	0.005987	0.1524
384	3.407662	0.007208	0.18542	0.052354	0.57912
385	2.68807	0.002055	0.04064	0.014558	0.1524
386	1.623085	0.000596	0.04318	0.031489	0.51816
387	5.203608	0.002975	0.0254	0.004762	0.12192
388	3.468671	0.003298	0.04572	0.012612	0.27432
389	3.197827	0.003644	0.04572	0.013716	0.1524
390	3.146613	0.003122	0.04064	0.012505	0.27432
391	2.863085	0.001988	0.0254	0.008467	0.09144
392	2.375667	0.000945	0.01524	0.006096	0.12192

393	2.929304	0.002602	0.051899	0.018769	0.18288
394	5.514738	0.004881	0.05588	0.009861	0.24384
395	2.691472	0.001508	0.00254	0.00091	0.03048
396	2.187939	0.001027	0.01016	0.004433	0.06096
397	2.731696	0.001553	0.01016	0.003586	0.03048
398	2.970196	0.002258	0.03556	0.011229	0.18288
399	3.077917	0.002345	0.00254	0.000792	0.03048
400	2.174001	0.000981	0.007437	0.00479	0.111029
401	2.24923	0.001126	0.01016	0.004813	0.06096
402	1.572233	0.000886	0.00508	0.002974	0.03048
403	2.667702	0.001409	0.04064	0.014558	0.21336
404	3.335008	0.007146	0.07112	0.020565	0.4572
405	2.229011	0.001066	0.02286	0.009797	0.27432
406	1.78222	0.001062	0.00762	0.003976	0.03048
407	3.211985	0.003192	0.04572	0.013547	0.21336
408	2.842022	0.001768	0.00254	0.000859	0.03048
409	3.665461	0.003484	0.01524	0.004019	0.1524
410	3.191979	0.003831	0.01016	0.003087	0.03048
411	2.748023	0.004457	0.0381	0.013252	0.27432
412	1.891024	0.000826	0.001049	0.00127	0.03048
413	2.541454	0.001095	0.02794	0.010478	0.3048
414	2.84146	0.001841	0.02032	0.006869	0.21336
415	5.374587	0.006854	0.07874	0.014316	0.39624
416	4.400068	0.007236	0.05842	0.012863	0.24384
417	3.336465	0.004176	0.04064	0.011611	0.24384
418	3.513692	0.003653	0.02286	0.006235	0.12192
419	2.561909	0.001209	0.00508	0.001905	0.03048
420	4.389348	0.006242	0.01778	0.003915	0.06096
421	2.53494	0.001526	0.01016	0.00387	0.03048
422	4.306759	0.008298	0.04318	0.009777	0.12192
423	2.897795	0.001869	0.05842	0.019207	0.51816
424	2.995088	0.002124	0.01778	0.00569	0.09144
425	5.217723	0.003023	0.04826	0.009049	0.24384
426	2.227292	0.001048	0.0127	0.005347	0.1524
427	2.682015	0.001487	0.0127	0.004549	0.09144
428	3.147976	0.002123	0.02032	0.006542	0.09144
429	2.939224	0.001846	0.0127	0.004739	0.12192
430	1.928568	0.000935	0.00762	0.003732	0.06096
431	2.194542	0.001109	0.0254	0.011082	0.09144
432	3.812547	0.004752	0.0381	0.009728	0.21336
433	2.786103	0.001845	0.064693	0.023059	0.48768
434	3.085393	0.003469	0.00761	0.00343	0.111718
435	1.535385	0.000132	0.015398	0.016139	0.137603

436	2.126425	0.000946	0.00254	0.001129	0.03048
437	1.709256	0.000562	0.00508	0.002709	0.03048
438	4.263519	0.00349	0.03556	0.008128	0.09144
439	2.792018	0.00149	0.01524	0.005225	0.12192
440	4.003333	0.006974	0.04826	0.011582	0.12192
441	3.741679	0.003338	0.03302	0.008521	0.09144
442	3.170838	0.002327	0.03048	0.00926	0.12192
443	2.21114	0.001023	0.01524	0.006892	0.06096
444	3.925096	0.007524	0.03048	0.007541	0.18288
445	2.947332	0.002166	0.03556	0.011945	0.1524
446	3.064633	0.002094	0.00254	0.000792	0.03048
447	1.692196	0.000702	0.018346	0.011084	0.18288
448	3.164785	0.002904	0.0127	0.003975	0.09144
449	2.767464	0.001623	0.0127	0.004354	0.06096
450	2.683109	0.001535	0.01016	0.003639	0.12192
451	4.52745	0.018938	0.17526	0.037894	0.3048
452	2.581656	0.001322	0.021932	0.008441	0.12192
453	1.657288	0.000785	0.00254	0.001683	0.03048
454	3.065413	0.002887	0.04572	0.014646	0.1524
455	2.058883	0.000963	0.027893	0.012906	0.12192
456	2.737138	0.001508	0.039256	0.015141	0.1524
457	2.848406	0.001773	0.02032	0.007159	0.09144
458	2.913672	0.00231	0.04064	0.013361	0.21336
459	2.967405	0.001953	0.01524	0.004943	0.09144
460	3.165129	0.002606	0.03302	0.010031	0.1524
461	2.764639	0.001683	0.04064	0.014136	0.21336
462	2.528622	0.001129	0.032572	0.012985	0.27432
463	2.342841	0.001093	0.025305	0.010351	0.09144
464	2.729384	0.001468	0.01016	0.003534	0.06096
465	2.308681	0.001315	0.037314	0.017743	0.1524
466	2.508387	0.001369	0.0127	0.004838	0.09144
467	3.183566	0.002441	0.04318	0.012954	0.18288
468	2.490445	0.001377	0.01524	0.006176	0.09144
469	3.211511	0.002945	0.06096	0.018288	0.39624
470	4.474439	0.006878	0.0762	0.016625	0.36576
471	2.273047	0.001723	0.0381	0.016042	0.33528
472	2.810265	0.003087	0.00254	0.000859	0.03048
473	3.207559	0.004736	0.0381	0.01143	0.21336
474	2.545398	0.004508	0.00508	0.001905	0.03048
475	1.499385	0.00048	0.018753	0.01588	0.24384
476	3.112071	0.003432	0.04826	0.014849	0.24384
477	2.665177	0.003695	0.03048	0.010918	0.27432
478	1.918858	0.000668	0.00254	0.001708	0.03048

479	2.554058	0.001165	0.03302	0.012382	0.1524
480	2.266066	0.000918	0.012494	0.005391	0.06096
481	2.356076	0.00111	0.00508	0.002066	0.06096
482	5.62281	0.021587	0.29972	0.052125	0.42672
483	3.487759	0.003102	0.0127	0.003544	0.09144
484	2.837914	0.001675	0.01778	0.00601	0.1524
485	3.852446	0.004298	0.02794	0.007059	0.06096
486	2.210621	0.001206	0.006875	0.003266	0.03048
487	3.242619	0.0033	0.02032	0.006021	0.12192
488	2.84405	0.001727	0.010912	0.004293	0.06096
489	3.392675	0.003082	0.04318	0.012514	0.18288
490	2.783313	0.001786	0.01778	0.006096	0.12192
491	2.58299	0.001467	0.0127	0.004689	0.06096
492	3.996685	0.003773	0.0381	0.009144	0.18288
493	2.356775	0.001038	0.01524	0.006096	0.12192
494	2.651095	0.001381	0.02032	0.007279	0.09144
495	4.762208	0.003362	0.06858	0.013948	0.54864
496	2.467247	0.001025	0.00762	0.00295	0.06096
497	1.783602	0.00038	0.00254	0.002166	0.038669
498	2.633058	0.00127	0.04318	0.015702	0.51816
499	3.692239	0.006157	0.055066	0.014738	0.33528
500	3.102432	0.002626	0.04572	0.01425	0.18288
501	2.533512	0.001525	0.01524	0.005806	0.18288
502	2.96256	0.00211	0.00508	0.001648	0.03048
503	3.263247	0.006309	0.01778	0.005268	0.1524
504	3.035934	0.014455	0.304457	0.097998	0.70104
505	1.791475	0.000704	0.01016	0.005188	0.06096
506	2.883974	0.001872	0.02794	0.009313	0.12192
507	2.252513	0.001158	0.06604	0.027806	0.79248
508	2.534112	0.001398	0.02794	0.010478	0.09144
509	3.477426	0.002835	0.01524	0.004204	0.1524
510	1.907509	0.000783	0.01778	0.00913	0.21336
511	2.229301	0.001272	0.021459	0.012612	0.21336
512	2.758717	0.001725	0.0254	0.008835	0.18288
513	2.426027	0.001328	0.02032	0.007866	0.1524
514	3.340887	0.003418	0.00508	0.001451	0.06096
515	2.328558	0.001276	0.01016	0.004133	0.06096
516	2.327424	0.001038	0.002675	0.002094	0.032099
517	5.490861	0.004119	0.03556	0.006322	0.09144
518	3.41094	0.002786	0.02286	0.006455	0.12192
519	2.528691	0.001442	0.00508	0.001905	0.06096
520	2.23581	0.001011	0.03556	0.014982	0.21336
521	1.949903	0.000728	0.0127	0.00622	0.12192

522	2.588894	0.001287	0.06858	0.025322	0.6096
523	2.638726	0.001558	0.007757	0.003695	0.06096
524	3.826849	0.007778	0.08382	0.021401	0.54864
525	2.014544	0.000931	0.00254	0.001195	0.03048
526	2.222392	0.001151	0.0127	0.005347	0.1524
527	3.10669	0.002504	0.03048	0.00926	0.3048
528	2.810988	0.001894	0.01016	0.003483	0.09144
529	3.008185	0.001874	0.05588	0.017882	0.36576
530	3.041384	0.002545	0.0127	0.004011	0.12192
531	2.482907	0.001341	0.04064	0.015732	0.39624
532	2.914486	0.00484	0.03556	0.011691	0.39624
533	2.080799	0.001293	0.00508	0.0023	0.06096
534	1.799019	0.000531	0.0254	0.015756	0.3048
535	2.100644	0.001078	0.03048	0.013802	0.18288
536	3.426843	0.004122	0.03556	0.01004	0.18288
537	3.58602	0.005281	0.0635	0.017124	0.21336
538	3.615344	0.003556	0.03048	0.008128	0.09144
539	3.040213	0.001764	0.017961	0.006789	0.06096
540	2.609832	0.001287	0.01016	0.003695	0.09144
541	2.94389	0.002174	0.03048	0.010021	0.21336
542	2.203303	0.001264	0.03302	0.013903	0.1524
543	2.067281	0.000828	0.01016	0.004689	0.06096
544	2.888373	0.001838	0.02286	0.007516	0.12192
545	2.609962	0.00151	0.01524	0.005627	0.1524
546	2.41289	0.001181	0.01778	0.006995	0.12192
547	1.919029	0.000871	0.0127	0.006096	0.1524
548	2.847273	0.001829	0.02286	0.00762	0.09144
549	2.311465	0.001158	0.03048	0.012612	0.21336
550	3.188242	0.002782	0.03556	0.010803	0.1524
551	2.487884	0.001004	0.01524	0.005899	0.12192
552	3.317673	0.003826	0.04318	0.012486	0.27432
553	2.441818	0.001399	0.01016	0.003997	0.09144
554	3.160059	0.002816	0.03302	0.010031	0.27432
555	1.796591	0.000887	0.010452	0.007708	0.09144
556	4.803752	0.005374	0.08636	0.017474	0.3048

C4

Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)
1	5.087516	0.005503	0.048489	0.009997	0.1524
2	2.773275	0.003237	0.04318	0.014805	0.18288
3	2.265829	0.000861	0.01524	0.006199	0.12192
4	3.188706	0.002533	0.01524	0.004572	0.09144
5	4.277578	0.007838	0.06858	0.015675	0.24384

6	4.069277	0.005136	0.05334	0.012675	0.36576
7	5.425979	0.0104	0.07112	0.012834	0.21336
8	5.554621	0.005946	0.0127	0.002241	0.09144
9	2.480316	0.000704	0.025984	0.012507	0.18288
10	2.959221	0.00191	0.017509	0.00581	0.06096
11	3.180314	0.002506	0.02032	0.006173	0.18288
12	3.33289	0.00256	0.013947	0.004724	0.09144
13	2.832389	0.001682	0.00254	0.000859	0.03048
14	2.75848	0.001791	0.00254	0.001105	0.03048
15	7.709578	0.005897	0.02286	0.002918	0.06096
16	3.322417	0.002453	0.019729	0.007063	0.12192
17	7.955894	0.008167	0.0508	0.006285	0.18288
18	4.505906	0.004254	0.03302	0.007139	0.09144
19	3.341609	0.002506	0.00762	0.002442	0.06096
20	4.394692	0.005796	0.12192	0.026878	0.27432
21	3.954493	0.003686	0.0254	0.00622	0.18288
22	3.812776	0.003086	0.06604	0.017153	0.09144
23	2.745197	0.003069	0.03302	0.011611	0.18288
24	2.261505	0.003541	0.0127	0.005882	0.09144
25	2.016879	0.000701	0.00508	0.002391	0.06096
26	2.553918	0.001612	0.00508	0.001905	0.06096
27	2.522875	0.001629	0.00254	0.000968	0.03048
28	2.141971	0.001343	0.0127	0.005542	0.12192
29	3.13414	0.002332	0.03048	0.009378	0.18288
30	7.775518	0.011002	0.04064	0.005133	0.1524
31	2.917994	0.003261	0.00762	0.002505	0.06096
32	2.176127	0.001219	0.08128	0.038793	0.42672
33	3.613067	0.0034	0.0127	0.003387	0.06096
34	4.479265	0.003493	0.04572	0.009975	0.27432
35	7.80333	0.011911	0.164607	0.020886	0.42672
36	3.953193	0.004009	0.06858	0.016795	0.39624
37	4.675113	0.014214	0.09398	0.019613	0.21336
38	5.029462	0.004888	0.00254	0.000544	0.03048
39	4.281753	0.00326	0.02032	0.004601	0.06096
40	2.710582	0.002091	0.02286	0.008068	0.1524
41	3.984089	0.004121	0.01524	0.003658	0.09144
42	2.789649	0.002068	0.00508	0.001742	0.06096
43	4.581043	0.00563	0.04064	0.008632	0.3048
44	4.309085	0.004601	0.0254	0.005697	0.06096
45	6.235234	0.011413	0.04572	0.007219	0.3048
46	2.301171	0.001889	0.00254	0.001055	0.03048
47	14.80482	0.015313	0.17272	0.011547	0.4572
48	3.55457	0.003011	0.0254	0.006849	0.06096

49	4.388632	0.002625	0.0254	0.005542	0.09144
50	3.106299	0.001894	0.01778	0.005471	0.09144
51	4.63742	0.005894	0.06096	0.012722	0.27432
52	4.056602	0.006505	0.02794	0.006639	0.21336
53	2.664387	0.001189	0.08636	0.030935	1.03632
54	4.708211	0.006784	0.04064	0.008408	0.18288
55	4.024448	0.005541	0.05588	0.013547	0.48768
56	10.09008	0.014966	0.10414	0.010201	0.39624
57	2.02921	0.002425	0.04064	0.018757	0.24384
58	4.096025	0.004044	0.03048	0.007243	0.33528
59	1.955088	7.60E-05	0.0127	0.006274	0.1524
60	3.247797	0.001857	0.04572	0.013923	0.21336
61	2.926734	0.003764	0.00508	0.00167	0.06096
62	3.474175	0.002687	0.0254	0.007088	0.09144
63	2.734094	0.001775	0.0381	0.013252	0.27432
64	10.21818	0.019053	0.18288	0.017698	0.3048
65	3.805746	0.003792	0.02032	0.005188	0.09144
66	4.61364	0.004393	0.0254	0.005347	0.1524
67	4.473303	0.005892	0.02032	0.004394	0.1524
68	3.445917	0.003037	0.07366	0.020556	0.3048
69	2.960616	0.001376	0.01016	0.003479	0.03048
70	6.034925	0.005639	0.0381	0.006178	0.18288
71	8.145017	0.022969	0.2032	0.024675	0.48768
72	2.955667	0.001806	0.03048	0.009885	0.1524
73	8.160234	0.010113	0.09652	0.011641	0.57912
74	5.120608	0.010459	0.06096	0.011611	0.24384
75	4.068254	0.008619	0.03556	0.008566	0.18288
76	3.678449	0.003284	0.02286	0.006029	0.1524
77	6.395146	0.009803	0.0762	0.011731	0.36576
78	2.770534	0.001546	0.02286	0.007838	0.06096
79	4.01674	0.004926	0.04318	0.010468	0.33528
80	3.406457	0.002074	0.02794	0.008047	0.12192
81	3.118163	0.002208	0.01778	0.005471	0.12192
82	3.348349	0.004014	0.03048	0.008813	0.12192
83	3.360927	0.00425	0.03556	0.010282	0.18288
84	3.689899	0.003534	0.02032	0.005244	0.1524
85	3.715851	0.003712	0.04318	0.011264	0.21336
86	3.556566	0.002707	0.040689	0.011644	0.06096
87	2.863454	0.002532	0.00762	0.00254	0.09144
88	2.81318	0.002774	0.01016	0.003434	0.06096
89	3.435676	0.002099	0.0127	0.003544	0.09144
90	3.33067	0.003207	0.04064	0.011751	0.42672
91	3.489592	0.003138	0.04064	0.011211	0.18288

92	5.278615	0.005411	0.06096	0.011254	0.42672
93	7.82187	0.007251	0.11176	0.014043	0.3048
94	2.772785	0.002069	0.050632	0.017932	0.39624
95	2.869275	0.002077	0.01778	0.006773	0.03048
96	4.133718	0.004019	0.03556	0.008367	0.12192
97	4.040656	0.006138	0.02794	0.006706	0.1524
98	3.538419	0.003444	0.02286	0.006235	0.1524
99	5.664791	0.005377	0.07366	0.012811	0.3048
100	3.651898	0.004045	0.02032	0.005606	0.09144
101	3.710169	0.003801	0.01778	0.004638	0.12192
102	3.918921	0.006603	0.06604	0.01634	0.24384
103	3.018001	0.001712	0.00762	0.002438	0.06096
104	3.119247	0.002172	0.07366	0.022665	0.79248
105	6.415834	0.010998	0.07874	0.012037	0.1524
106	4.110171	0.005613	0.09398	0.022113	0.70104
107	3.739046	0.003507	0.04572	0.01219	0.24384
108	3.300884	0.002371	0.01016	0.002974	0.09144
109	3.989038	0.004824	0.04572	0.011197	0.18288
110	4.890824	0.006115	0.02032	0.004318	0.09144
111	3.802977	0.004325	0.00762	0.001946	0.03048
112	3.115362	0.00254	0.01016	0.003126	0.09144
113	5.091728	0.015345	0.14478	0.027798	0.39624
114	4.423741	0.007169	0.02794	0.006152	0.24384
115	5.55279	0.005827	0.097842	0.017481	0.33528
116	5.364016	0.01856	0.26924	0.049326	1.24968
117	2.833172	0.003099	0.02286	0.008142	0.1524
118	2.598816	0.001047	0.00254	0.000938	0.03048
119	4.040355	0.009099	0.09144	0.021946	0.33528
120	3.20064	0.002509	0.05334	0.017451	0.24384
121	4.047016	0.004297	0.01524	0.003658	0.09144
122	3.909672	0.003787	0.02794	0.006913	0.09144
123	3.343261	0.002381	0.01016	0.002938	0.12192
124	4.508809	0.007933	0.03556	0.007689	0.1524
125	3.087273	0.001792	0.0127	0.004078	0.06096
126	3.96891	0.006401	0.07112	0.017417	0.33528
127	3.259002	0.002191	0.04318	0.012992	0.36576
128	4.703447	0.006707	0.0508	0.01051	0.21336
129	4.572904	0.005414	0.00508	0.001089	0.06096
130	3.736913	0.003165	0.01524	0.003933	0.1524
131	3.908506	0.004674	0.02286	0.005715	0.1524
132	3.348401	0.002475	0.02794	0.008079	0.24384
133	3.415381	0.003113	0.00508	0.001434	0.03048
134	3.794833	0.003331	0.01778	0.00454	0.06096

135	4.332348	0.004163	0.06096	0.013673	0.12192
136	6.987737	0.009872	0.21336	0.029945	0.73152
137	5.858567	0.016929	0.10668	0.017657	0.4572
138	2.499208	0.001729	0.01524	0.005806	0.12192
139	3.324261	0.005853	0.097654	0.029559	0.4572
140	2.692656	0.002419	0.01524	0.005379	0.06096
141	2.848151	0.002531	0.00508	0.001717	0.06096
142	3.991062	0.008209	0.08636	0.021149	0.21336
143	2.642249	0.001557	0.00762	0.002771	0.06096
144	6.596385	0.015608	0.17526	0.026126	0.57912
145	3.380831	0.004364	0.0127	0.003586	0.09144
146	2.82376	0.002267	0.04064	0.013934	0.24384
147	4.080327	0.003914	0.10922	0.025953	0.33528
148	3.882086	0.003556	0.00254	0.000635	0.03048
149	4.133129	0.007003	0.00762	0.001793	0.06096
150	4.852438	0.006986	0.06858	0.013603	0.18288
151	2.516538	0.001697	0.03302	0.012382	0.3048
152	3.986275	0.004359	0.04826	0.011819	0.48768
153	5.167871	0.005829	0.0635	0.012	0.27432
154	5.833514	0.007635	0.04064	0.006821	0.12192
155	4.472742	0.007631	0.05842	0.012746	0.27432
156	3.783518	0.004021	0.02032	0.005188	0.18288
157	3.072102	0.001925	0.0127	0.004394	0.06096
158	3.476753	0.00414	0.00762	0.002102	0.09144
159	3.490752	0.0032	0.0254	0.007088	0.27432
160	7.883376	0.006921	0.03302	0.004127	0.12192
161	4.401852	0.005783	0.01524	0.003356	0.09144
162	3.963227	0.004206	0.02032	0.004926	0.06096
163	4.224897	0.005664	0.04318	0.00987	0.21336
164	3.281703	0.005229	0.09398	0.027438	0.21336
165	4.925361	0.009011	0.077527	0.016739	0.21336
166	2.808867	0.001706	0.0889	0.03048	0.54864
167	7.650849	0.017156	0.18288	0.023471	0.54864
168	2.85453	0.002222	0.01778	0.00601	0.06096
169	4.344693	0.007144	0.07366	0.016522	0.42672
170	3.535871	0.010153	0.105288	0.029664	0.82296
171	1.987247	0.000569	0.05334	0.025699	0.48768
172	2.790771	0.003553	0.00254	0.000871	0.03048
173	4.372976	0.003049	0.09652	0.021449	0.27432
174	2.749718	0.003769	0.0127	0.004417	0.06096
175	4.483494	0.004324	0.1651	0.035697	0.6096
176	4.859606	0.011894	0.08128	0.016393	0.21336
177	2.385688	0.001337	0.01524	0.006413	0.06096

178	4.187678	0.011517	0.06858	0.01598	0.18288
179	3.873583	0.004017	0.03302	0.008255	0.1524
180	3.672458	0.003121	0.04064	0.010718	0.18288
181	7.058966	0.009752	0.0889	0.012405	0.39624
182	3.277646	0.001766	0.05334	0.015612	0.36576
183	8.131576	0.009762	0.06858	0.008313	0.09144
184	4.037537	0.005482	0.04064	0.009754	0.12192
185	2.461762	0.001563	0.02794	0.010815	0.18288
186	2.265145	0.001203	0.0127	0.005255	0.12192
187	3.561588	0.003114	0.01778	0.004795	0.1524
188	6.59516	0.009783	0.00254	0.000379	0.03048
189	3.213409	0.003005	0.01778	0.005334	0.1524
190	3.817389	0.010172	0.024104	0.007775	0.182256
191	4.626992	0.014127	0.0635	0.013636	0.27432
192	2.797918	0.002877	0.01778	0.006096	0.09144
193	2.72074	0.003953	0.00762	0.00265	0.09144
194	2.947777	0.001498	0.01016	0.00334	0.09144
195	4.961901	0.005923	0.02286	0.004497	0.1524
196	7.91859	0.008793	0.08128	0.010107	0.27432
197	3.961889	0.003708	0.03302	0.008087	0.09144
198	4.229942	0.004465	0.02794	0.006386	0.1524
199	7.467723	0.007446	0.04064	0.005359	0.09144
200	3.654086	0.003175	0.02286	0.006096	0.12192
201	4.498662	0.008224	0.17018	0.036796	0.48768
202	2.714474	0.002334	0.00762	0.002689	0.09144
203	3.570513	0.003089	0.03302	0.008904	0.12192
204	3.926739	0.003501	0.01524	0.003771	0.09144
205	4.399086	0.004362	0.03556	0.007902	0.27432
206	4.951424	0.005712	0.05588	0.011832	0.24384
207	5.516676	0.012451	0.10414	0.018514	0.33528
208	3.668193	0.002733	0.03048	0.008039	0.09144
209	4.617569	0.008357	0.0508	0.010695	0.39624
210	3.812463	0.015912	0.1524	0.038911	0.57912
211	2.707994	0.000891	0.01524	0.005379	0.06096
212	2.882925	0.005629	0.01016	0.003387	0.06096
213	3.969161	0.003658	0.1143	0.028366	0.762
214	4.460165	0.005152	0.02032	0.004433	0.09144
215	4.263462	0.005539	0.05334	0.012192	0.3048
216	3.385381	0.00255	0.00254	0.000717	0.03048
217	2.72812	0.001682	0.01524	0.005225	0.18288
218	3.765935	0.007877	0.1651	0.042606	0.54864
219	3.609926	0.008797	0.02032	0.005419	0.18288
220	2.614163	0.002457	0.03302	0.012007	0.18288

221	5.644414	0.00539	0.01016	0.001767	0.06096
222	2.740543	0.001425	0.01778	0.006408	0.06096
223	2.956769	0.004031	0.02286	0.007414	0.09144
224	3.069819	0.00505	0.01524	0.00475	0.09144
225	4.020246	0.007377	0.00254	0.00061	0.03048
226	3.02608	0.001802	0.00762	0.002406	0.03048
227	4.452386	0.007673	0.028488	0.007204	0.1524
228	3.083648	0.001756	0.033547	0.011412	0.18288
229	10.33672	0.013235	0.07112	0.0068	0.3048
230	6.525824	0.007059	0.04064	0.006096	0.21336
231	4.197947	0.012029	0.07112	0.01684	0.27432
232	2.127758	0.000977	0.00762	0.004017	0.09144
233	4.119929	0.003807	0.02794	0.006639	0.09144
234	2.383398	0.001751	0.00762	0.003266	0.03048
235	2.099649	0.001058	0.00254	0.001129	0.03048
236	3.597068	0.003041	0.00254	0.000677	0.03048
237	3.427753	0.001857	0.0127	0.003586	0.09144
238	2.999822	0.001825	0.007838	0.003243	0.03048
239	4.420958	0.007787	0.03048	0.006711	0.09144
240	5.023145	0.009352	0.02794	0.005452	0.12192
241	6.21583	0.010104	0.11176	0.017646	0.67056
242	2.636545	0.001658	0.04572	0.016377	0.27432
243	4.625581	0.00457	0.10414	0.021734	0.48768
244	2.77708	0.001356	0.027705	0.010648	0.09144
245	5.374298	0.01767	0.1651	0.030018	0.3048
246	3.217138	0.00464	0.01016	0.003048	0.03048
247	2.557813	0.001885	0.00762	0.002814	0.03048
248	2.871468	0.006336	0.06096	0.02032	0.27432
249	2.478956	0.001733	0.0254	0.009676	0.09144
250	2.501852	0.001194	0.01524	0.005806	0.09144
251	2.434104	0.001158	0.00254	0.000999	0.03048
252	3.317013	0.001879	0.02032	0.005947	0.18288
253	3.902594	0.005668	0.04572	0.011312	0.48768
254	2.918205	0.00301	0.03048	0.010021	0.1524
255	3.057999	0.002789	0.04353	0.015014	0.24384
256	3.030009	0.00425	0.04064	0.013005	0.24384
257	3.118997	0.002799	0.03302	0.01016	0.27432
258	2.551352	0.0019	0.02794	0.010478	0.09144
259	2.752737	0.001184	0.00762	0.002613	0.06096
260	2.923364	0.001222	0.0127	0.004175	0.09144
261	3.179672	0.002175	0.04064	0.012192	0.27432
262	6.353258	0.031194	0.30226	0.046502	0.64008
263	7.346173	0.007301	0.03048	0.004087	0.09144

264	5.314607	0.005261	0.08128	0.015006	0.21336
265	3.960319	0.004365	0.0381	0.009331	0.12192
266	3.963466	0.007096	0.059941	0.014929	0.21336
267	2.376994	0.001135	0.016259	0.007112	0.06096
268	2.181825	0.00121	0.00762	0.003208	0.06096
269	3.122255	0.002046	0.0127	0.003908	0.09144
270	3.860923	0.003707	0.03302	0.008255	0.18288
271	7.390948	0.01033	0.21844	0.029125	0.42672
272	2.383694	0.001845	0.01016	0.004064	0.09144
273	2.971128	0.001037	0.012014	0.007155	0.316074
274	2.895756	0.002421	0.037755	0.0127	0.09144
275	6.483531	0.004314	0.01016	0.001534	0.06096
276	2.610898	0.001337	0.003496	0.001847	0.03048
277	4.223687	0.003725	0.01524	0.003774	0.03048
278	3.311834	0.002779	0.02032	0.005876	0.21336
279	4.117155	0.00602	0.04826	0.011355	0.12192
280	5.352023	0.006048	0.01524	0.002792	0.09144
281	3.493731	0.002452	0.00254	0.000701	0.03048
282	4.845372	0.013038	0.07366	0.014856	0.27432
283	7.86174	0.022352	0.03302	0.004127	0.24384
284	2.986048	0.007397	0.00508	0.001626	0.06096
285	2.689168	0.001411	0.029215	0.011042	0.12192
286	2.984962	0.002189	0.0127	0.004119	0.09144
287	3.84358	0.007945	0.06604	0.016684	0.27432
288	3.172736	0.004989	0.04347	0.014164	0.1524
289	3.496919	0.003076	0.04572	0.012612	0.27432
290	2.865174	0.005456	0.0635	0.021401	0.67056
291	2.502986	0.00215	0.02794	0.010644	0.24384
292	3.809176	0.004766	0.0254	0.006485	0.12192
293	2.977047	0.001957	0.01524	0.004877	0.06096
294	4.302462	0.00593	0.06858	0.015528	0.09144
295	2.997838	0.001882	0.00259	0.002024	0.06096
296	6.842021	0.010104	0.07366	0.010586	0.42672
297	3.231454	0.002189	0.00508	0.001487	0.03048
298	3.36366	0.00257	0.0127	0.003629	0.12192
299	4.269516	0.004086	0.04064	0.009202	0.33528
300	2.750307	0.001564	0.01016	0.003534	0.09144
301	6.502439	0.007494	0.0254	0.00381	0.1524
302	11.55187	0.014789	0.0635	0.005443	0.24384
303	5.724103	0.005001	0.01524	0.002594	0.06096
C5					
Episode	DUR	RECH	MAG	AVG	Max PPT Rate (m/d)

1	2.17873	0.001309	0.02032	0.008867	0.09144
2	3.05269	0.003291	0.0254	0.008346	0.1524
3	1.068847	0.000505	0.00508	0.004591	0.06096
4	1.537303	0.000683	0.00762	0.004572	0.03048
5	1.475395	0.000701	0.014766	0.009775	0.12192
6	1.031004	0.000678	0.00359	0.004804	0.04308
7	2.767546	0.002748	0.03556	0.012369	0.1524
8	4.497044	0.003553	0.03302	0.007076	0.1524
9	2.584489	0.002184	0.01016	0.003751	0.12192
10	2.290371	0.001433	0.0127	0.005255	0.09144
11	2.413266	0.001656	0.05334	0.021336	0.54864
12	1.473046	0.000715	0.01524	0.009378	0.12192
13	3.17892	0.003865	0.06604	0.020063	0.3048
14	2.356502	0.001279	0.00508	0.002032	0.03048
15	1.464478	0.000537	0.0254	0.015631	0.21336
16	2.677751	0.001964	0.01778	0.006369	0.18288
17	1.073667	0.000536	0.01524	0.012612	0.18288
18	2.692067	0.00228	0.0127	0.004549	0.1524
19	2.910194	0.002447	0.03048	0.010021	0.21336
20	1.739431	0.000851	0.0254	0.01378	0.1524
21	2.803236	0.001629	0.020622	0.007727	0.1524
22	1.619687	0.000944	0.00254	0.001948	0.03048
23	2.810376	0.001944	0.03556	0.01202	0.21336
24	3.013276	0.0024	0.04064	0.013005	0.12192
25	2.610092	0.001498	0.02032	0.007503	0.12192
26	1.963683	0.001058	0.00508	0.002391	0.03048
27	2.476346	0.001557	0.0127	0.004838	0.09144
28	2.388369	0.001527	0.0127	0.005493	0.06096
29	2.562405	0.001646	0.00508	0.001876	0.06096
30	6.272775	0.005584	0.02794	0.004383	0.21336
31	2.540694	0.001613	0.00762	0.002857	0.03048
32	4.680466	0.007658	0.0508	0.01051	0.1524
33	3.817557	0.0034	0.02286	0.005837	0.09144
34	2.52162	0.002907	0.0254	0.009676	0.1524
35	2.677991	0.003366	0.03556	0.012738	0.27432
36	1.931548	0.001127	0.01016	0.004877	0.06096
37	2.154651	0.001257	0.01016	0.004516	0.06096
38	2.90653	0.003322	0.04064	0.013361	0.1524
39	2.825878	0.003646	0.03556	0.01202	0.18288
40	2.570605	0.003284	0.09144	0.03429	0.3048
41	2.558528	0.00186	0.02286	0.008441	0.12192
42	1.915084	0.001007	0.01524	0.007464	0.12192
43	2.805873	0.003275	0.01778	0.006096	0.1524

44	2.051021	0.001134	0.02286	0.010551	0.06096
45	2.058585	0.001087	0.01016	0.004689	0.09144
46	3.310933	0.004008	0.04826	0.014336	0.18288
47	1.796487	0.000889	0.01016	0.005301	0.09144
48	2.346688	0.001396	0.01778	0.007233	0.1524
49	1.904382	0.000983	0.02794	0.013685	0.33528
50	4.137527	0.005768	0.10414	0.024266	0.6096
51	4.516279	0.003959	0.04572	0.009797	0.1524
52	2.961622	0.003893	0.04826	0.015652	0.18288
53	4.134954	0.006404	0.058315	0.014032	0.09144
54	2.911011	0.003678	0.00578	0.00501	0.18288
55	2.802966	0.002726	0.01016	0.003483	0.09144
56	2.874391	0.002154	0.01524	0.006626	0.1524
57	2.888585	0.002805	0.01778	0.005845	0.18288
58	1.167538	0.000651	0.004982	0.003971	0.06096
59	1.729895	0.000909	0.00508	0.002771	0.06096
60	2.169633	0.00123	0.00508	0.002217	0.03048
61	5.039983	0.008797	0.10414	0.020156	0.1524
62	2.815111	0.003735	0.07366	0.024899	0.27432
63	1.56664	0.000665	0.00508	0.003048	0.06096
64	1.621858	0.000838	0.00508	0.003145	0.06096
65	1.862366	0.000982	0.01016	0.005252	0.09144
66	3.63296	0.002817	0.00762	0.002032	0.09144
67	2.801524	0.002361	0.0381	0.013063	0.24384
68	2.997496	0.002133	0.00508	0.001626	0.03048
69	1.168285	0.00063	0.02286	0.017698	0.18288
70	2.612865	0.001491	0.03048	0.011084	0.12192
71	3.58492	0.003235	0.03556	0.009589	0.12192
72	2.263676	0.001306	0.020541	0.01051	0.1524
73	1.535043	0.000832	0.0127	0.009262	0.06096
74	3.151302	0.003627	0.03302	0.01016	0.24384
75	2.89738	0.002079	0.03556	0.011691	0.12192
76	3.052309	0.006792	0.04318	0.013636	0.3048
77	3.027023	0.002315	0.0254	0.008128	0.12192
78	2.872872	0.003261	0.0254	0.008467	0.06096
79	2.422681	0.001688	0.01524	0.005996	0.1524
80	2.09853	0.001274	0.009136	0.004516	0.06096
81	2.50705	0.003427	0.02032	0.007741	0.18288
82	2.919133	0.003686	0.02032	0.006681	0.09144
83	1.851065	0.001018	0.00254	0.00127	0.03048
84	2.931808	0.005947	0.04572	0.014828	0.18288
85	2.269157	0.002534	0.02286	0.009459	0.18288
86	2.348399	0.001672	0.00361	0.002066	0.03048

87	2.391401	0.001681	0.01524	0.006096	0.09144
88	3.607514	0.002324	0.01778	0.004741	0.06096
89	2.066684	0.001083	0.02032	0.009031	0.09144
90	2.463005	0.001946	0.00508	0.001966	0.03048
91	2.674262	0.003017	0.03302	0.011828	0.09144
92	2.302295	0.001993	0.01778	0.007233	0.06096
93	2.845209	0.002847	0.03302	0.011162	0.12192
94	3.826669	0.002549	0.02032	0.005133	0.12192
95	2.534223	0.004454	0.0508	0.01905	0.18288
96	1.499261	0.000671	0.01524	0.009378	0.09144
97	2.174544	0.002049	0.02286	0.009797	0.09144
98	1.692756	0.00075	0.02286	0.012469	0.1524
99	2.082025	0.001039	0.01524	0.006901	0.1524
100	3.875721	0.003594	0.04318	0.010795	0.12192
101	1.063655	0.000518	0.00762	0.006306	0.06096
102	2.692471	0.002211	0.01778	0.006369	0.09144
103	2.538594	0.001629	0.01524	0.005715	0.09144
104	1.53545	0.000871	0.01016	0.006096	0.06096
105	4.089066	0.004346	0.05334	0.012675	0.21336
106	2.13093	0.002379	0.03048	0.013547	0.3048
107	1.574816	0.001031	0.00254	0.001487	0.03048
108	2.912903	0.009733	0.09398	0.030898	0.36576
109	2.398518	0.006625	0.00254	0.001016	0.03048
110	1.089669	0.000571	0.02032	0.017196	0.24384
111	2.105819	0.001454	0.01016	0.004516	0.12192
112	1.274246	0.000677	0.01524	0.010758	0.18288
113	2.867853	0.002038	0.02032	0.006773	0.06096
114	1.990103	0.00106	0.01778	0.008367	0.09144
115	2.646114	0.003023	0.02794	0.010008	0.1524
116	2.072874	0.001054	0.01016	0.004689	0.09144
117	4.230632	0.004964	0.04572	0.01045	0.21336
118	2.581326	0.002276	0.02286	0.008441	0.06096
119	2.039293	0.001241	0.00508	0.002345	0.03048
120	3.127109	0.002017	0.0127	0.003908	0.12192
121	2.563222	0.00347	0.02286	0.008573	0.09144
122	2.54625	0.002417	0.01524	0.005627	0.18288
123	2.408819	0.003087	0.02032	0.007995	0.18288
124	2.844841	0.003376	0.0254	0.008586	0.09144
125	2.556465	0.002324	0.03048	0.011254	0.1524
126	2.551429	0.002471	0.01778	0.006667	0.06096
127	2.817288	0.003979	0.04064	0.013737	0.21336
128	1.142993	0.000492	0.003416	0.004577	0.06096
129	2.204738	0.001418	0.0127	0.005443	0.06096

130	3.03814	0.001773	0.018168	0.006417	0.06096
131	3.435996	0.003063	0.02794	0.007889	0.09144
132	1.904089	0.001388	0.01778	0.008709	0.21336
133	1.080141	0.000482	0.00254	0.002102	0.03048
134	2.125823	0.001098	0.04572	0.02032	0.24384
135	2.253518	0.001342	0.02286	0.009625	0.1524
136	2.845101	0.001726	0.03556	0.011853	0.39624
137	1.90145	0.000932	0.01016	0.004976	0.03048
138	2.31754	0.001363	0.02794	0.011561	0.21336
139	1.895264	0.000889	0.02794	0.014296	0.1524
140	1.820715	0.001091	0.00762	0.003891	0.06096
141	2.735207	0.001948	0.01778	0.006184	0.06096
142	2.352553	0.001502	0.02286	0.009816	0.06096
143	2.478532	0.001672	0.0254	0.009832	0.09144
144	1.883579	0.000886	0.01524	0.007793	0.12192
145	9.328183	0.008852	0.06604	0.006982	0.12192
146	3.716123	0.007917	0.04572	0.011927	0.09144
147	1.967903	0.001029	0.01016	0.004877	0.06096
148	2.729189	0.003176	0.03556	0.012369	0.09144
149	2.719627	0.003673	0.049028	0.017929	0.18288
150	2.661054	0.002702	0.06858	0.02472	0.27432
151	1.969585	0.001117	0.01524	0.007172	0.18288
152	2.478824	0.002163	0.04318	0.016715	0.24384
153	1.893581	0.001149	0.01016	0.00508	0.06096
154	3.170719	0.004218	0.0381	0.011575	0.1524
155	2.629114	0.003523	0.03048	0.011084	0.21336
156	1.782549	0.000828	0.01016	0.005301	0.12192
157	1.985402	0.001433	0.01524	0.007315	0.09144
158	2.407501	0.00205	0.02032	0.007995	0.09144
159	1.707439	0.000905	0.01016	0.005542	0.09144
160	2.650304	0.001889	0.01778	0.006465	0.12192
161	2.447418	0.004027	0.03048	0.011799	0.21336
162	2.908871	0.003605	0.01524	0.00501	0.12192
163	1.233196	0.000381	0.01524	0.011084	0.1524
164	2.027874	0.00102	0.0127	0.005862	0.1524
165	1.530901	0.001012	0.00508	0.003048	0.06096
166	3.233577	0.005366	0.08636	0.025908	0.27432
167	3.527167	0.00644	0.044931	0.012612	0.1524
168	2.27767	0.001618	0.04826	0.02032	0.54864
169	2.400654	0.001543	0.033722	0.013991	0.09144
170	3.761507	0.002637	0.08636	0.022286	0.39624
171	2.304692	0.00354	0.03302	0.013663	0.1524
172	1.892983	0.001071	0.01778	0.00889	0.1524

173	1.648549	0.000856	0.01524	0.008709	0.1524
174	1.897857	0.000913	0.0127	0.00635	0.12192
175	2.794548	0.002175	0.0254	0.008709	0.09144
176	2.98337	0.001863	0.01016	0.003208	0.06096
177	6.939621	0.011386	0.06858	0.009739	0.09144
178	2.138081	0.001401	0.0127	0.005542	0.09144
179	2.217865	0.001291	0.01016	0.004354	0.09144
180	2.5983	0.002158	0.01778	0.006465	0.12192
181	1.670062	0.000811	0.00762	0.004253	0.03048
182	2.953033	0.003436	0.0254	0.008351	0.09144
183	2.123127	0.001151	0.01016	0.004516	0.06096
184	2.334308	0.001483	0.00762	0.0031	0.06096
185	1.401346	0.000677	0.01016	0.00659	0.06096
186	2.671299	0.002724	0.02286	0.008189	0.1524
187	1.294013	0.000834	0.00508	0.004118	0.06096
188	3.05129	0.001986	0.02032	0.006417	0.06096
189	2.278388	0.003725	0.04064	0.016817	0.33528
190	3.171488	0.002183	0.03556	0.011049	0.12192
191	3.278755	0.002351	0.04064	0.011895	0.12192
192	2.480032	0.001398	0.02032	0.007741	0.18288
193	2.418584	0.002037	0.02032	0.007995	0.12192
194	1.816951	0.000979	0.00254	0.001297	0.03048
195	3.30294	0.003488	0.02794	0.008079	0.12192
196	1.637508	0.000665	0.003542	0.002903	0.03048
197	3.845642	0.004709	0.04064	0.01016	0.12192
198	2.705311	0.003268	0.02286	0.008068	0.18288
199	3.560512	0.002294	0.00762	0.002055	0.06096
200	2.117157	0.001797	0.01016	0.004516	0.03048
201	1.9744	0.000954	0.01016	0.005464	0.09144
202	2.685276	0.001874	0.00762	0.002995	0.09144
203	3.588722	0.003135	0.04318	0.011644	0.1524
204	1.898532	0.00092	0.01524	0.00762	0.06096
205	2.261464	0.00232	0.03302	0.014203	0.12192
206	2.923861	0.00716	0.08636	0.028392	0.3048
207	1.421665	0.000644	0.001254	0.003295	0.06096
208	5.036988	0.008664	0.0635	0.01239	0.27432
209	2.187416	0.002099	0.0254	0.011084	0.21336
210	2.039338	0.001046	0.0127	0.005862	0.09144
211	4.726652	0.006876	0.04318	0.008857	0.21336
212	2.188576	0.0013	0.00762	0.003325	0.03048
213	3.968688	0.004138	0.03302	0.008087	0.21336
214	1.984775	0.001002	0.00508	0.002496	0.03048
215	2.319708	0.001358	0.00762	0.0031	0.09144

216	1.74013	0.000859	0.00508	0.002709	0.03048
217	2.481455	0.001825	0.01778	0.006883	0.09144
218	2.194847	0.002215	0.03048	0.0133	0.18288
219	3.007626	0.002433	0.02032	0.006502	0.09144
220	2.815627	0.003565	0.01524	0.005286	0.18288
221	2.876458	0.003463	0.04826	0.016087	0.27432
222	2.805748	0.004495	0.04318	0.014805	0.18288
223	1.591168	0.000884	0.02032	0.012498	0.09144
224	2.567987	0.001728	0.01524	0.005715	0.1524
225	2.164377	0.001292	0.02286	0.009975	0.18288
226	1.311974	0.000594	0.00762	0.005225	0.03048
227	1.646128	0.000784	0.0254	0.01457	0.18288
228	2.756202	0.002075	0.03048	0.010602	0.27432
229	4.732987	0.003563	0.07112	0.014714	0.27432
230	2.839124	0.002116	0.0127	0.004293	0.1524
231	3.979142	0.003833	0.0762	0.018473	0.3048
232	2.558319	0.00163	0.01016	0.00381	0.03048
233	2.947215	0.002064	0.0254	0.008238	0.1524
234	2.093611	0.001123	0.01778	0.008051	0.12192
235	2.367229	0.001361	0.02286	0.009144	0.06096
236	3.26363	0.003315	0.03302	0.009784	0.1524
237	2.803927	0.003596	0.0381	0.013063	0.18288
238	3.289032	0.003554	0.07112	0.020816	0.48768
239	1.690494	0.000842	0.02032	0.011084	0.12192
240	2.540951	0.004582	0.04826	0.018097	0.1524
241	1.682176	0.000807	0.01016	0.00602	0.03048
242	2.365071	0.00159	0.00762	0.0031	0.06096
243	2.262454	0.002503	0.02794	0.011764	0.09144
244	2.297582	0.00176	0.0127	0.005255	0.09144
245	2.022588	0.001051	0.00508	0.002391	0.06096
246	3.517223	0.005186	0.04572	0.012612	0.1524
247	2.20283	0.002101	0.02286	0.009797	0.12192
248	1.437745	0.000705	0.01524	0.009625	0.09144
249	2.911923	0.002056	0.09652	0.031733	0.21336
250	1.499576	0.000702	0.01524	0.009378	0.1524
251	1.535223	0.00074	0.01778	0.010668	0.09144
252	1.371838	0.000672	0.01778	0.012307	0.06096
253	2.229164	0.001275	0.0127	0.005443	0.06096
254	2.484934	0.002496	0.03302	0.012782	0.1524
255	2.38263	0.001618	0.01778	0.007238	0.06096
256	3.517891	0.004855	0.067153	0.018919	0.12192
257	1.529718	0.000693	0.01016	0.006462	0.06096
258	3.240477	0.003869	0.0381	0.011289	0.27432

259	2.668507	0.002775	0.02286	0.008189	0.18288
260	1.902329	0.00145	0.01524	0.00762	0.12192
261	2.667473	0.002998	0.0254	0.009099	0.09144
262	3.551805	0.004788	0.04826	0.013162	0.09144
263	3.294653	0.005583	0.04318	0.012638	0.18288
264	2.149024	0.001472	0.00508	0.002217	0.03048
265	1.608382	0.000941	0.0127	0.007434	0.06096
266	2.654693	0.002559	0.02032	0.007279	0.09144
267	2.365165	0.001431	0.0254	0.01016	0.12192
268	1.500511	0.000744	0.00254	0.001563	0.03048
269	2.818768	0.002486	0.01778	0.00601	0.21336
270	1.561968	0.000849	0.00254	0.001524	0.03048
271	5.056525	0.009029	0.07112	0.013765	0.36576
272	2.993832	0.003839	0.02794	0.009062	0.1524
273	2.94778	0.003828	0.02794	0.009062	0.06096
274	2.880391	0.005945	0.08128	0.026722	0.48768
275	2.02476	0.001058	0.049501	0.023446	0.18288
276	2.23489	0.002141	0.04826	0.020683	0.18288
277	2.068267	0.001077	0.000574	0.00115	0.03048
278	2.810011	0.003355	0.01524	0.005152	0.06096
279	2.233118	0.001813	0.01016	0.004278	0.09144
280	4.495937	0.00381	0.03302	0.007139	0.09144
281	2.166502	0.001594	0.01016	0.004433	0.12192
282	3.646583	0.004549	0.03556	0.009483	0.09144
283	2.348236	0.001396	0.01016	0.004133	0.12192
284	2.921749	0.002987	0.0254	0.008351	0.18288
285	2.569317	0.002434	0.02286	0.008572	0.12192
286	3.079887	0.004934	0.08128	0.025667	0.33528
287	1.842549	0.001041	0.00508	0.002594	0.03048
288	2.627608	0.002423	0.02286	0.008313	0.12192
289	2.44106	0.001816	0.02032	0.007995	0.1524
290	1.273205	0.000707	0.02286	0.018771	0.24384
291	1.230546	0.000556	0.01524	0.01143	0.12192
292	2.540251	0.001626	0.02286	0.008587	0.21336
293	1.987406	0.000921	0.01016	0.004877	0.09144
294	3.477949	0.002084	0.02032	0.005606	0.09144
295	3.214163	0.002031	0.01016	0.003048	0.06096
296	2.622276	0.004435	0.02794	0.01016	0.1524
297	2.789335	0.001936	0.01016	0.003483	0.06096
298	2.649472	0.004243	0.03302	0.011828	0.24384
299	2.713588	0.002521	0.01524	0.005379	0.09144
300	2.411001	0.001746	0.0127	0.004997	0.06096
301	3.25708	0.006081	0.05842	0.01731	0.24384

302	2.730005	0.007974	0.0889	0.030922	0.67056
303	3.055486	0.005531	0.03822	0.012667	0.1524
304	3.682606	0.004465	0.03556	0.009277	0.09144
305	2.357687	0.001407	0.00762	0.0031	0.06096
306	2.601176	0.002768	0.02286	0.008599	0.1524
307	1.951041	0.001086	0.00508	0.002391	0.03048
308	2.465217	0.001907	0.00762	0.002903	0.09144
309	2.380227	0.003248	0.0254	0.01016	0.12192
310	1.414623	0.000499	0.00762	0.00508	0.06096
311	2.109526	0.001138	0.03064	0.014676	0.12192
312	2.314197	0.00161	0.0127	0.005255	0.09144
313	2.145907	0.001286	0.005617	0.003325	0.03048
314	1.56817	0.000771	0.00254	0.001487	0.03048
315	2.44051	0.001571	0.0127	0.005097	0.06096
316	2.64493	0.002066	0.01778	0.006369	0.09144
317	2.638134	0.004428	0.01778	0.006465	0.12192
318	2.402898	0.002054	0.0127	0.005159	0.06096
319	4.59774	0.013808	0.26416	0.056105	0.64008
320	2.007436	0.001191	0.01524	0.007172	0.06096
321	2.106953	0.001154	0.001514	0.001493	0.048651
322	2.750245	0.003658	0.04572	0.015903	0.24384
323	3.140167	0.007499	0.0508	0.015631	0.24384
324	2.750298	0.003367	0.0127	0.004821	0.09144
325	1.861691	0.001277	0.00254	0.00127	0.03048
326	7.911283	0.004541	0.11176	0.013898	0.36576
327	2.440498	0.001754	0.002154	0.001423	0.056322
328	2.268825	0.003086	0.02794	0.011767	0.24384
329	2.28884	0.001473	0.01524	0.006306	0.06096
330	2.355433	0.00155	0.00254	0.001016	0.03048
331	2.64346	0.002783	0.0127	0.004618	0.09144
332	2.004879	0.001007	0.00254	0.001195	0.03048
333	2.54361	0.00251	0.00254	0.000952	0.03048
334	2.304393	0.001511	0.02032	0.008408	0.24384
335	2.82658	0.005201	0.04572	0.015455	0.54864
336	5.882694	0.004961	0.0381	0.00635	0.27432
337	2.476116	0.001774	0.03048	0.011799	0.33528
338	3.09943	0.003128	0.09652	0.029698	0.27432
339	2.109862	0.001196	0.0127	0.005644	0.1524
340	2.812359	0.002485	0.04572	0.015455	0.54864
341	3.438588	0.002088	0.07112	0.019847	0.67056
342	2.639394	0.002446	0.04826	0.017549	0.39624
343	2.53742	0.001817	0.01016	0.00381	0.06096
344	1.209614	0.000525	0.00762	0.006667	0.03048

345	1.940334	0.001092	0.00762	0.004097	0.06096
346	3.366181	0.002714	0.0127	0.003809	0.1524
347	1.738585	0.001115	0.002812	0.002709	0.03048
348	4.782459	0.004746	0.04318	0.008782	0.36576
349	3.368549	0.005956	0.0254	0.007172	0.21336
350	2.664512	0.004823	0.01016	0.003695	0.06096
351	3.176148	0.004267	0.06096	0.018519	0.33528
352	2.385108	0.00158	0.09398	0.036976	0.64008
353	1.984085	0.000953	0.00508	0.002391	0.03048
354	3.344808	0.00615	0.00762	0.002177	0.06096
355	2.263102	0.002021	0.00254	0.001069	0.03048
356	2.975387	0.004694	0.03556	0.011379	0.36576
357	4.440604	0.00443	0.0635	0.013982	0.36576
358	2.062082	0.001167	0.0381	0.017676	0.12192
359	3.927098	0.013821	0.23228	0.058619	0.51816
360	3.088115	0.003984	0.0254	0.007917	0.12192
361	2.094371	0.001993	0.04826	0.021854	0.24384
362	1.579434	0.000751	0.018184	0.01698	0.21336
363	1.839899	0.000931	0.022779	0.013475	0.090474

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