Univerzita Pardubice

Dopravní fakulta Jana Pernera

Effects of temperature change on pavement performance evaluation using FWD

Diploma thesis

2022 Sareea Wisam

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ZADÁNÍ DIPLOMOVÉ PRÁCE
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Zásady pro vypracování

Zpracujte téma vlivu změny teploty na hodnocení únosnosti vozovek pomocí rázového zatěžovacího zařízení typu A – FWD. V teoretické části práce popište a zhodnoťte využití zařízení FWD v současné době u nás i v zahraničí. Popište základní principy fungování technologie, metody měření a vyhodnocení získaných dat se zaměřením na vliv teplot zkoumaných vozovek. V praktické části proveďte sérii měření na vybraných testovacích úsecích s následným vyhodnocením dat. Práci vypracujte v anglickém jazyce v rozsahu stanoveném vedoucím práce.
Práce bude strukturována přibližně ve smyslu následujícího dělení:

1. Úvod
2. Analytická část (teorie, rešerše literatury, zhodnocení současného stavu problematiky FWD a teplot, popis zařízení)
3. Stanovení konkrétních cílů a metod práce
4. Vlastní měření FWD
5. Zpracování naměřených dat, tvorba výstupů
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Další literatura dle doporučení vedoucího práce

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V Pardubicích dne 28. října 2020

I declare:

The thesis entitled Effects of temperature change on pavement performance evaluation using FWD is my own work. All literary sources and information that I used in the thesis are referenced in the bibliography.

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ANNOTATION

The thesis aims to study the effect of temperature on pavement deflections (*especially when changing temperature*) *by using a falling weight deflectometer (FWD) and its results. The temperatures were obtained by two methods 1) a special temperature acquisition system designed for this thesis (Arduino thermometer) and 2) by the thermometers attached as a part of FWD device. Data from both devices were studied. Several correlations between temperature and different layers of pavement structure, (i.e., air temperature, surface pavement temperature, and mid-depth asphalt pavement temperature) were studied. Also, the survey analyzed the temperature's behaviors on pavements layers up to depth 430 mm under the surface.*

KEYWORDS

pavement layers thermometer, falling weight deflectometer FWD, non-destructive tests, pavement's performance.

NÁZEV

Vlivy změny teploty na hodnocení únosnosti vozovek rázovým zařízením FWD.

ANOTACE

Cílem práce bylo prostudovat vlivy změny teploty na hodnocení únosnosti vozovek (zejména vliv změny teploty) na použití rázového zařízení typu A – FWD a jeho výsledky. Teploty byly získány dvěma metodami 1) speciálně vyvinutým měřícím systémem pro účely diplomové práce (Arduino teploměrem) a 2) teploměry v zařízení FWD. Teplotní data získaná pomoci obou zařízení byla vyhodnocena. Bylo provedeno několik korelací mezi teplotou a různými vrstvami konstrukce vozovky (tj. teplota vzduchu, teplota povrchu vozovky a teplota střední hloubky asfaltových vrstev). V práci jsou dále analyzovány změny teplot vrstev vozovky až do hloubky 430 mm pod povrchem.

KLÍČOVÁ SLOVA

teploměr vrstev vozovky, rázové zařízení typu A – FWD, nedestruktivní testy, dlažba výkon

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List of Abbreviations

AASHTO	American association of state highway and transportation officials
AC	Asphalt concrete
ACO	Asphalt concrete abrasive
ACP	Asphalt concrete base
CRCP	Continuously reinforced concrete pavements
D	Slab depth (inches)
Ec	Elastic modulus of PCC
ESALs	Equivalent single axle load
FFWD	Fast falling weight deflectometer
FWD	Falling weight deflectometer
HMA	Hot mix asphalt
HWD	Heavy weight deflectometer
JPCP	Jointed plain concrete pavement
JRCP	Jointed reinforced concrete pavement
LWD	Light weight deflectometer
MR	Resilient modulus
NDT	Non-destructive testing
OSBSS	Open source building science sensors
PC	Portland cement
PCC	Portland cement concrete
po	Initial serviceability index
PSI	Present serviceability index
pt	Terminal serviceability index
RTDs	Resistance temperature detectors
RWD	Rolling weight deflectometer
SALs	Single axle load
SHWD	Super heavy weight deflectometer
SN	Structural number

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1. Introduction

The roads pavements and their performance are the most part that will focused on it in this chapter.

1.1 Pavement performance and testing of bearing capacity during service lifetime

The roadways are known as a pathway (engineering facilities) carried on above the grounds. Using for passage (motorized/non-motorized) vehicles, persons, and animals. The constructions of the roadways are developed over time from one type to another type, from unbounded roadways to multilayers pavements roadways. Roads tests were also developing side by side with new types of constructions.

Evaluation of the pavement performance continuously is very important to improve the quality of the roads. to achieve roads with more effective, more reliable, and more efficient (Sun et al., 2018). According to the top surface of pavement, the roadway is dividing into two main groups, first type called flexible pavement, which has a mixture of asphalt concrete (AC) on the top layer. Second type, called rigid pavement. which mainly consist of concrete on all layers. This type of pavements is design for purpose missions. The details and way of design for a flexible pavement will study in this thesis. Also, the behavior of temperatures on all layers will be studied. and make comparing between temperatures and models of elasticity for the pavement will be noticed.

The most popular use type of the pavement is a flexible pavement. Not only in the Czech Republic, but a crossing the world. In Czech Republic approximately 95% of the roads are top surface made from asphalts. Asphalt has a lot of good specification to use it in pavements. Main of these specifications are the low price, easy maintenance comparing to other types (concrete pavement for example), fast paving, and long service life. On other side the asphalt suffers from severe weather conditions and traffic loads. The one of the most common failure in asphalt pavements is a cracking (Adlinge & Gupta, 2009; West et al., 2018). The cracking in flexible pavement (asphalt) can be generally divided/categorized to longitudinal cracking (alligator), fatigue cracking, reflective cracking, and transverse cracking. In flexible pavement, thermal cracking happens when the stresses exceed tensile strength in asphalt layers. This type of crack (thermal

cracks) generally starts on the top surface and increase through the depth of the pavement (Alaamri et al., 2017). The spacing and the size of the thermal cracks depend on changing temperature as a recording of low temperatures and thermal gradient amongst other factors (e.g., pavement materials quality, resistance to thermal cracking, etc.) (Pais, 2013). To avoid cracking (pavement failure). a proactive reaction must be made, or which is called pavement evaluation. The main goal for pavement's evaluation is to estimate the remaining service life to the roads. Many types and devices are uses to make these estimations. Generally, two ways are uses to make the estimation analytical calculations or fields tests. The analytical theory depends on back-calculations and making theoretical simulations to the pavements. The more accuracy way is to estimate the remaining service life, on a specified section of the road is by using fields tests. The fields tests are mainly divided to two types, Destructive and Non-Destructive tests. While the destructive tests mainly depend on making cores in pavements on the roads and tests them. The non-destructive tests (NDT) use a lot of technical ways to conduct the data. Make simulations to the pavements, like falling weight deflectometer device (FWD) is one of these technical tests. Non-destructive testing methods are becoming more and more popular, especially for assessing the structural condition of the pavement (Gedafa et al., 2011). They are increasingly recognized as a more effective and reliable way to obtain data not only on pavements structure but also on pavements layers behavior. Several studies on estimation construction condition are developed in laboratory of department of transport structure– Pardubice University by using Non-destructive tests. (Artagan & Borecky, 2020) are investigated the method of Ground Penetrating Radar of railway ballast under real-life conditions and different types of pollutions. They have used three common pollution's materials collecting under railway ballast which are gravel, sand, and the mixture. However (Vladislav Borecký, 2017) investigated on a relationship between deflection that detects by FWD and ground penetration radar (GPR) data. then to use the GPR as a tool to FWD for predicting the mechanical properties for the pavement's layers. The FWD test is considering one of the most commonly non-destructive used tests carried out on roadway sites. The main using for FWD tests are to predict the deflection for the pavement. Then estimate the service life to the roads. The thesis aimed to study the effects of changing in weather temperature increase/decrease on the pavement layers. Also, compare all deflection data (through temperature change) with models of elasticity of the pavements. The measure has been made in Pardubice region in Czech Republic.

Figure 1 Map of Czech Republic and Pardubice location.

(Pardubice Location in the Czech Republic. | Download Scientific Diagram, n.d.)

Two locations of different type of pavement were tested, which were flexible pavement and semi-rigid pavement. The temperature thermometer was design for the experiments. Designed thermometer were attached with six temperature's sensors which installed through the air and on a different pavement's layers. Many FWD test are made to obtain the pavements deflections data. The experiments were made through spring and summer season. The thesis tested the hot weather and changing (not stable) temperature through testing days.

1.2 **Thesis structure**

This thesis consists of seven chapters. An overview of each chapter is given in below:

•Chapter 1: This chapter provides the overall background and a brief overview of pavement performance and testing of bearing capacity during service lifetime, the second part describe the chapters of thesis structure .

•Chapter 2: This chapter give the current state of knowledge on flexible pavement and main principle of working falling weight deflectometer device and main component and as well as the types of it. The second section is deal with an acquisition temperature system, and types of the temperature data collecting. while the last section of this chapter is representing an effect of Falling Weight Deflectometer and Temperature on the two type of pavements, and the distribution of behavior temperature on pavement layers.

•Chapter 3: Provide the main goals of thesis and the objectives according the state of thesis plan, and main steps for the experiments also is write.

•Chapter 4: Experimental part which is provide a detailed view on the equipment that used in the experiment, detailed information on FWD that is used to investigate the experiments, and designed Arduino thermometer. an explanation of the equipment's software was provided too.

•Chapter 5: This section is writing about conducting the experiment, then uploading the data and processing it. Analyzing data, drawing figures, and making tables.

•Chapter 6: Overall conclusions from this study are presented in this chapter along with some recommendations. The recommendations are focused on the remedial measures for the pavement sections studied herein as well as recommendations for future work.

•References and list of bibliographic citations.

2 Current state of knowledge

The chapter describe the main material that used at pavements.

2.1 Pavement basic

To understand the work life for one type of pavements. Asphalts and their design will be study like below.

2.1.1 Flexible pavement-introduction

One of most popular type that using for pavement is flexible pavement. This type of pavement can be referred to as pavement layers comprise of a bitumen mixture and aggregates. Properly mixed, heated, and put and then compact on a layer of granular. Figure 2 show the flexible the pavement layers. Asphalt binder or bitumen is also referred to it. In Europe and other parts of a world, can be defined as a glue which holds material's mixture together. Bitumen pretends about 4–8% of the mixture by weight. While a volumetric method, asphalt mixtures could be 9–18% of the asphalt binder, and about 78-87% of mineral aggregate, and air voids 3–6%. It is very important to detect the distribution and size of air voids in the mixture of asphalt to know the mechanisms related to moisture and oxidation. The important properties for the bitumen are temperature, time, and age. so, asphalt mixtures have these characteristics (temperature, time, and age) from the bitumen . It is very hard to understand and appreciates the performance and behavior of bitumen except having some knowing (studying) about the behavior and performance on it. For example, the most common distresses in a flexible pavement are fatigue cracking, moisture damage, rutting and thermal cracking (Pais, 2013).

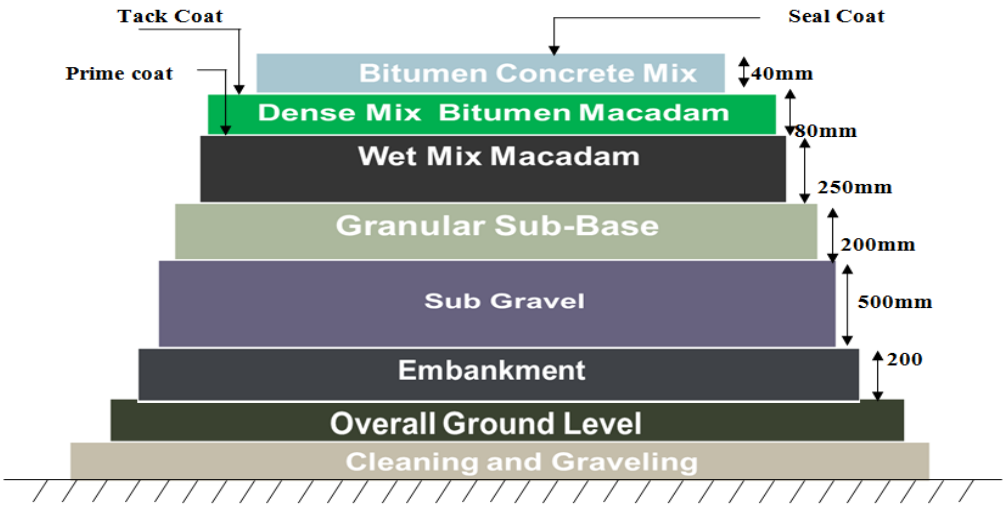


Figure 2 Typical cross section for flexible pavement

(Rodriguez & Ashtiani, 2021)

The AASHTO Guide for Pavement Structures Design (Officials A.A.H and T, 1993) is a primary document used not to rehabilitated but also to design new highway pavements.

2.1.2 General overview on design equation

The AASTO equation for flexible pavement relating traffic, pavement performance and pavement structure is widely use and has the form:

$$log_{10}(W_{18}) = Z_R \cdot S_o + 9.36log_{10}(SN+1) - 0.2 + \frac{log_{10}\left[\frac{\Delta PSI}{4.2-1.5}\right]}{0.4 + \frac{1094}{(SN+1)^{5.19}}} + 2.32log_{10}M_R - 8.07$$

Know that	W18	=	the number of 18 kip equal (ESALs) single axle loads
	ZR	=	the standards normal deviate (functions of the design's reliability level)
	S0	=	the overall standards deviation (functions of overall's design uncertainty)
	ΔPSI	=	the allowable serviceability loss at end of design life

	MR	=	the subgrade resilient modulus
	SN	=	the structural number (measure of required structure's capacity)

Typically, first five parameters are representing the inputs to the design's equation, and the structural number SN is representing the output. the value of the structural number is found:

$SN = a_1 D_1 + a_2 D_2 m_2 + a_3 D_3 m_3$

Know that	D1 D2 D3	=	The thicknesses of the surface which is base, and subbase layers.
	a1 a2 a3	=	Corresponding structural layer coefficients.
	m2 m3	=	Drainage coefficients for the base and subbase layers.
	ΔPSI	=	The allowable serviceability loss at end of design life.
	MR	=	The subgrade resilient modulus.
	SN	=	The structural number (measure of required structure's capacity).

2.1.3 Design inputs

The main design inputs will be study below.

1.Analysis Period

The performance period knows as to the time which the pavement design is purposed to last before it required a rehabilitation. The source analysis period means the overall durations which design strategies must cover. So, realistic performances limitation may need a plane rehabilitation in the desired analysis period.

The AASHTO references for analysis periods at different types of roads are concise in below:

Highway conditions Analysis	period (years)
High-volume urban	30 - 50
High-volume rural	20 - 50

Low-volume paved	15 - 25
Low-volume aggregate surface	10 – 20

2. Traffic

One of the important factors in pavement designs is traffic. So, accurate data must be taken specifically to each project. The analysis of traffic needs the evaluation of traffic type, initial traffic volume, directional distribution, and traffic growth.

The AASHTO Design Guide depends on accumulative 120 kN for the equivalent single-axle loads (ESALs). Also, equivalent single axle loads ESALs may be evaluated using the following equation:

ESAL = (ADT0) (T) (Tf) (G) (D) (L) (365) (Y)

Know that	ADT_0	=	The average daily traffic of the begin of the design period.
	T	=	The percentage for trucks in the ADT.
	T_f	=	The truck factors, or ESALs per truck.
	G	=	The traffic growth factor.
	D	=	The directional distribution factor.
	L	=	The lane distribution factor.
	Y	=	The design period in (years).

3. Reliability

The reliability is also referred to as the prospect which a pavement part will carry out satisfactorily over the design lifetime. It must consider unexpected construction materials, traffic loading, and environmental conditions. AASHTO design takes into account this uncertainty through incorporates a reliability level R to supply a factor of safety to the pavement design and that increase the probability which the pavement will do as purposed over its design life. The table mentioned below shows the levels of reliability by AASHTO to various classes of roads.

Table 1 Levels of reliability for various functional classifications (AASHTO, 1993)

Functional classification	Recommended level of reliability	
	Urban	Rural
Interstate and other freeways	85 - 99.9	80 - 99.9
Principal arterials	80 - 99	75 - 95
Collectors	80 - 95	75 - 95
Local	50 - 80	50 - 80

4.Serviceability

The serviceability is valued by a Present Serviceability Index PSI. The Present serviceability index ranges between (0 - 5), while the actual range of real pavements is about (1.5 - 4.5). An initial serviceability indicator po match to road conditions promptly after construction. The value of initial serviceability indicator po is 4.2 for flexible pavements. A terminal serviceability indicator pt is also known as the lowest serviceability which will tolerate before reconstruction or rehabilitations be necessary. It is recommended to use terminal serviceability indicator pt 2.5 or bigger for major highway.

5.Subgrade Resilient Modulus

The quality of subgrade's pavement is known in terms of its resilient modulus MR. A resilient modulus is a property of a basic material which be measured straight in the laboratories. evaluated using different empirical relations or predestined in-situ from non-destructive tests.

6. Layer Properties

Material properties needed for each layer are structural category coefficients (ai). However, for materials unbound, uses drainage coefficients. The ways for calculating the ai and mi values for materials unbound values be between (0.4-0.44) are mostly used for dense graded asphalt concrete (Officials, 1993).

2.2 Diagnostics and evaluation of pavement's serviceability

To detect the serviceability life and determine the functional and structural conditions of a highway sections. The evaluations for pavements are making continuously. The detecting could by divided in to three main branches (Fontul, 2004). These branches are:

• Visual Condition Surveys

The visual condition surveys records part of both structural and functional pavement conditions, but usually serve as a qualitative indicator of overall conditions. The visual survey could be called the manual process and primary survey to obtain the data (e.g., cracking, rutting, deformations…etc.).

• Non-destructive Testing

The Non-destructive Testing (NDT) is the term for estimates conducted on the existing pavement structures which do not require maintenance work later to return the pavement to its first state. This is usually desirable to minimize disruption to the traffic adding to is essential tool to detects locations where eclectic material sampling have to be conducted to find out other material properties in a laboratory. The devices that operate on the principle of non-destructive testing are increasing day by day. The most popular non-destructive device using for the pavement's testing are ground penetration radar and falling weight deflectometer.

• Destructive Testing

The destructive testing working to characterization of the constituent pavement's materials which is not possible to obtain it through any testing method such as visual condition surveys and non-destructive testing. The material characterization includes:

-valuation of physical, mechanical, and chemical properties.

-secondary visual inspections of pavement layers through trenching, coring and augering.

2.3 Testing pavement's bearing capacity by Falling Weight Deflectometer

The (FWD) is a one of a common nondestructive test device. It's not new technology used for detective structural capacity for the pavements, while the first Falling Weight Deflectometer was manufactured in the late 1970's by Dynatest in Denmark (Fontul, 2004). It's suitable in elastic modulus for flexible, rigid, and composite pavement structures (Nenad Gucunski, 2009). The falling weight deflectometer designed to simulate loads occurs from wheels truck to the pavements road and measure the deflections caused because of these loads. The test begins when the nominated load drops on to circular load plate on the section surfaces of road, while the sensors placed on a specified place in the truck or around the load plate, these sensors measuring the load deflecting (Schmalzer, 2006). Figure 3 show the falling weight deflectometer device.

Figure 3 Falling weight deflectometer device.

(Serve Real Instruments Co., Ltd, 2017.)

The falling weight deflectometer has a wide field of using. It's utilized to complete structural testing for pavement rehabilitation projects, research, and for pavement structural failure detection (Deblois et al., 2010). The FWD test beginning to be a standard way of characterizing subsurface properties and evaluating the basic capacity and remaining life of a pavements (Schmalzer, 2006).

2.3.1 Types of impact load tests devices

The impact load tests devices have three main types, every one of these has special uses, operates, and benefits. These types are:

• Light Weight Deflectometer (LWD).

Is a portable device has only one sensor, use for surface or sub surface layers. The mainly using when the sections (pavements) been under constructions (Nenad Gucunski, 2009). The LWD developed to find the soil's bearing capacity in the site and for doing the quality control, quality assurance, structural evaluation of mechanically compacted earthwork and pavement layers (Senseney & Mooney, 2010). The LWD should not use in snow weather or ice layer (Menke et al., 2019) and recommended ambient temperatures above 10 °C. Figure 3a show the LWD device.

Figure 3a Light weight deflectometer device

(C.F. e P. IVA, 2017)

• Falling Weight Deflectometer (FWD).

The standard FWD consist of load plate with sensors drag by a truck. The number of sensors is not similar in all types. They are depending on the model of FWD device and manufactured company. but in most of them are consist of 6-8 sensors. As LWD, an FWD must work with specified conditions like nominated temperatures and clearly weather. There are four major producers of FWD device: Dynatest, KUAB, Carl Brothers and Foundation Mechanics (JILS) (Nenad Gucunski, 2009).

• Heavy Super Heavy Weight Deflectometer (HWD) and (SHWD) .

The HWD and the FWD are very similar. The main different between them are in the load quantity. While the maximum load expected generated from an FWD is 24,000Ibs, the maximum load expected generated from an HWD is twice. So, for that usually an HWD using for section used for expected heavy traffic load such as airport runways or some roads with special using such as truck car parks.

Figure 3b Heavy weight deflectometer

(*InterMESH Ltd*, 2021)

However, there are some types of devices, the principle for them is similar to principles of Falling Weight Deflectometer such as:

•Rolling Weight deflectometer (RWD) could be a deflectometer that can collect information data at a higher speed (as tall as 55 mph) than the normal (standard) falling weight deflectometer, which allowed to starting measurements and collect data without lane closure and traffic control. It was designed tractor-trailer with laser measuring devices mounted on a beam under the trailer. Another main difference between the RWD and an FWD is that it can get deflection loads on the pavement's road continuously (U.S Department of Transportation, 2020).

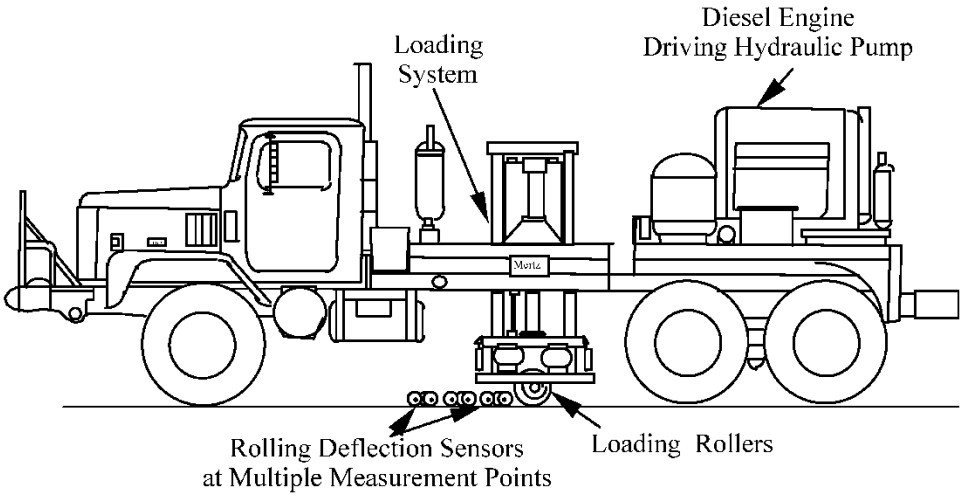


Figure 3c Rolling weight deflectometer device

(Nam et al., 2019)

• Fast Falling Weight Deflectometer (FFWD) is like a modern version of the FWD that adds pneumatic or electrical actuators rather than hydraulic ones to make the mechanics smoother then fast.

Figure 3d Fast falling weight deflectometer device

(*Dynatest A/S*, 2021)

2.3.2 Main components of Falling Weight Deflectometer

The basic units of the falling weight detective device are clarified by reference documents like as AASTHOO and ASTM standard. It can be describe the main components of an FWD system towed by the truck, are:

1.Control software system for data collection ,processing and storing.

2.Plate and loading weight.

3.Hydraulic system.

4.And geophones (Domitrović & Rukavina, 2015). Figure 4 show the schematic representation Falling Weight Deflectometer operation.

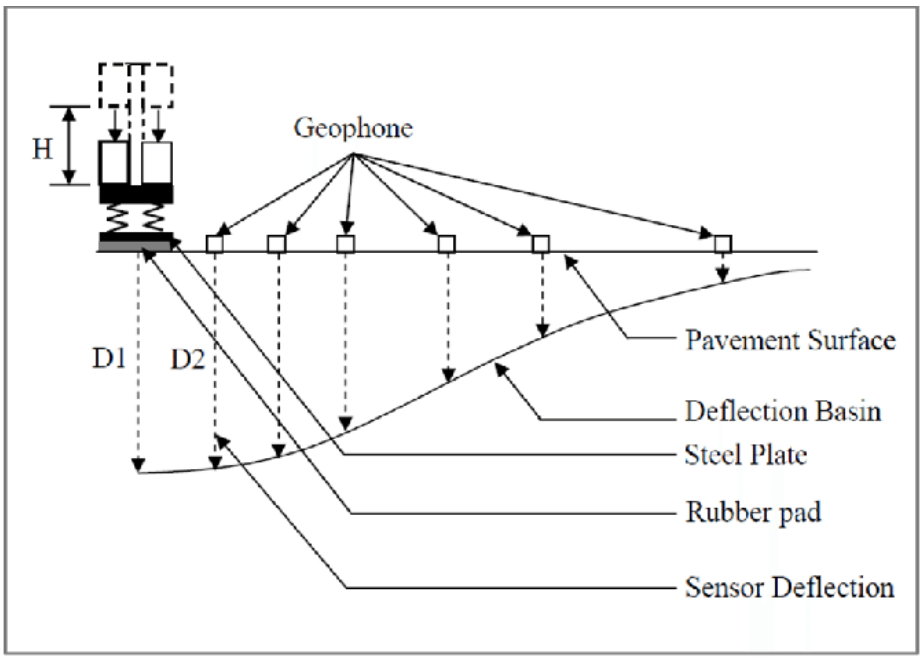


Figure 4 Schematic representation of Falling Weight Deflectometer operation

(Kavussi et al., 2017)

2.3.3 Overview on Falling Weight Deflectometer applications

Falling weight deflectometer testing, and analysis can be used for a lot of applications. The most common of these operating are:

• Determinations in the situ the structural capacity of pavement roads.

• Determinations the effective pavement layer moduli, including subgrades.

• Detections the voids under corners of a Portland Cement Concrete (PCC) slabs, by using certain analysis processing, such as load against deflection.

• Determinations of Load Transfer Efficiency in the rigid pavements.

• Evaluations of construction quality under an actual field conditions to estimate whether each layer meet structural capacity requirements.

• Provides an indication of how well a joint between two Portland Cement Concrete (PCC) slabs transmits loads.

• Using for evaluation of recycled pavement.

2.4 Methods of measuring road pavement temperature

Due to the dependency of the response of asphalt layers to temperature, deflection test results must always be complemented with information regarding asphalt temperatures at the time of testing. Temperature measurement during testing is always recommended and is used in the analysis to convert the asphalt stiffness moduli, or the deflections, into their equivalent values under a design temperature condition (Fontul, 2004) .

Different approaches can be used for the assessment of asphalt layer temperatures during FWD testing:

•To measure the air and pavement temperature during testing and estimate the temperature at certain depths inside the asphalt layers.

•To measure in-depth asphalt temperatures, generally at 3 or more different depths, including the surface, thus obtaining a temperature profile.

The surface temperature measurement can be performed using either contact thermometers or non-contact infrared sensors mounted on the FWD trailer. Many of the recent FWD's have this type of sensors.

2.4.1 Types of temperature's sensors in Falling Weight Deflectometer

The most popular temperature's sensors are study below:

•Thermocouples

They are most utilized probes of measurements temperature in the pavements. This operation was based on the See beck effect. Which is based on the junction of two non-similar metals that yields a small value of voltage which varies with temperatures. A thermocouple type E, T, or K uses for range subzero to high temperatures.

•Resistance Temperature Detectors (RTDs)

The RTDs consider temperature-sensitive resistors. There are usually made of a thin wire (copper, platinum, or nickel) covered by a glass core or ceramic. The temperature range of using build on

the sort of wire. The RTDs can widely measure the temperature on the pavement in both normal usage and construction.

• Thermistor Sensors

The principle of thermistor Sensors are depending on resistances on temperature more than standard resistors. They are used in a wide range, such as smaller temperature and they allow more accurate measurements (0.05 to 1.5 °C) (Barriera et al., 2020).

2.4.2 Temperatures variations through day and night

The recommendation is to measured temperatures to make the sensors on three layers at the depth which are on: the first layer is on 25 mm; the second layer is on half the depth of the pavement layer and the last layer (sensor) is 25 mm above the bottom layer. The main important side of the measurements of in-depth pavements is the duration (time of conducting the test). So, to simplify the processing one measurement is often found acceptable (that be at one-third a depth of the asphalt layer thickness). The alternative methods are also being with the direct measurements. These alternative methods are to estimate the pavement temperature based on surface temperature and on the air temperature. These methods are most used for estimation the temperatures of asphalt in depths. The differences in weathers (temperatures) that pavements were exposed not only within the day (daytime and night time) but also through the year's seasons (that be in some countries had a huge different in weather temperature range). Czech Republic had the highest recorded temperature in Prague is 37.8°C (100°F), while the lowest temperature on record is -33.1°C (-27.6°F) that will led to study the effects of temperatures differences not only on network city urban pavements but also the characters of different types of pavement's layers, for improve/develop working on it, and to make pavement service life better and longer. The effecting of temperatures on performance pavements is generally considered to be an important's factor because it affects the pavement's structural capacity. There are a lot of damages that happen to asphalt pavement because of temperatures changings (e.g., cracking and rutting). The severe damage is one type of thermal cracking of asphalt pavements because it effects on the external pavement surfaces and increasing the deterioration of a pavement's structure.

More research is made to clarify the relationship between Poisson's ratio and temperature for asphalt mixture based on experimental's investigation. All studies show that Poisson's ratio, coefficient of thermal expansion, and modulus of elasticity for the asphalt’s mixtures aren't constant at different conditions (Sun, 2016).

On another hand, different types of pavement (like, rigid pavement) had a different behavior in different temperatures. Prior studies indicated that the modulus of elasticity (of asphalt concrete) can depend on the temperatures. The temperatures on the pavement's surfaces changing with the time, during the day and night that in turn changing the temperatures tendency along with a pavement's structure. Figure 5 show a model of temperature changings in a pavement sections on different times through spring's and summer's days. As shown on the figures, the increasing of temperatures of the pavement's surface going with increasing solar radiations, but on the other hands the increasing in the depth, less the temperatures inside the pavement structures decreases. At the maximum value of solar radiation, the temperatures start to be decreasing gradually on the pavement’s surfaces. Although continues increasing the temperatures inside the pavements. which mention that the thermals energies are a continuously transfer inside the pavements layers system whilst the sun radiations decrease. An inverses system happens after sunsetting, a heat exchange between colds air on the surfaces and the pavement’s structure, which leads to a fast decreasing in temperature of the upper layers asphalts concretes. At this point, temperatures in the asphalt concrete upper layers are smaller than temperatures of asphalt concrete middle layers. The temperature inside cement is shown almost stabilized subgrade are remains approximately stable constant on a spring day and showed a minimum variation on a summer day (less than2 C). The nonlinear changes of the temperatures happen inside the pavement’s structures, especially in the asphalts layer (Asphalt Concrete AC upper layer to bottom layer) was showed to be. The temperatures slope above the asphalt layer was in generally bigger than that over the semi-rigid layer the subgrade, subbase, and base (Assogba et al., 2020).

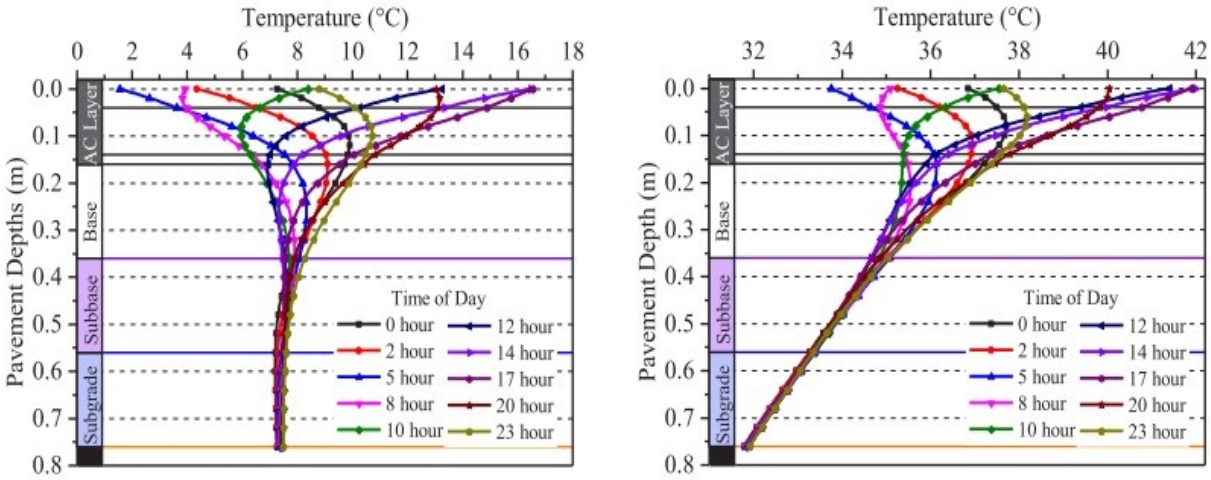


Figure 5 Typical temperature changing in pavement sections at different times during summer's and spring's days.

(Assogba et al., 2020)

In section mention, the thermo-mechanical sample are used in the description. In this study, two major assumptions were been take into considerations for simplify the solutions of a thermo-mechanical problems.

• Temperatures changes uniformly within the thickness of the asphalts surfaces layers, so, for a specified time, the temperatures are uniform over the entire pavements.

• The asphalts surfaces layers isolate the subgrades and bases layers, so, the temperatures in the subgrades and bases layers are uniform in time and spaces (Souza & Castro, 2012).

2.5 Effect of Temperature on pavement deflection

The effects of temperature variations on pavements are a major aspect to order to know their performances as well as their change over time. However, there are a few studies that made a direct link between asphalt mix temperatures and deflections. To order to avoid the affects that caused by asphalt mix temperature variations on a pavement deflection during performances evaluation, all deflection tests should be done at the same temperature. The bituminous binders' properties are the lower the temperature, the higher the stiffness. Whereas the higher the temperatures, the lower the stiffness (Ramos García & Castro, 2011). According to (Komacka, 2011) the moisture of pavement

subgrade and temperature of asphalt layers are the two main factors that have been considered when long time measured data are used for the determination of the degradation model. To achieve a successful experiment. Some limiting requirements are needed for FWD test. The pavement temperature must be between 0-30 ˚C (Březina et al., 2022). The temperature of asphalt layers is influenced by their stiffness (higher temperature leads to lower stiffness) and consequently deflections (higher temperature leads to higher deflections). Of course, the moisture of the subgrade varies during long period. That mean higher moisture of subgrade leads to lower stiffness of subgrade, thereby to lower bearing capacity of pavement expressed by higher-value of deflections (Komacka, 2011).

As described above, the surrounding effects on the pavements are common. The failures are representing as a changing in asphalt temperature from environment. Cracks is one type of failures which includes many kinds like reflective cracking, fatigue cracking, longitudinal cracking, and transverse cracking . About 60% of asphalt pavements experienced fatigue cracking and transverse cracking in their service life (West et al., 2018). Types of cracks are generally happened in the vertical direction and uniformly distances of the traffic (Al-Qadi & Lahouar, 2005). The transverse cracks are generally classified mainly into two types thermal cracking and reflective cracking. It is happing because of low temperature changing. When the thermal stresses exceed a tensile strength, thermal cracking happen in the asphalt pavements for the asphalt's layers. Cracks generally starts on the surfaces and increasing through the partials or the entire depths of the pavement. The size of thermal's cracks and spacing change with the level of lower temperature as well as thermal cycle, slope, and among other factors.

On another hands, the reflective cracks showed in the overlayers down the actions of repeated traffic loads and temperatures variations. The fatigue cracking is depending on the load-related distresses in asphalt pavements, and it is expanding due to repeated traffics loadings (Huang, 2004). While fatigue cracking is beginning, it can rapidly and easily increase with the weekend's pavements. Particularly, the fatigue cracking happens when stresses in asphalts layers because repeat traffic loading over the tensile strength. When the fatigue cracking begins on the surface, these cracks downward gradually.

3. Goals and methods of the thesis

- According to the thesis, the goals that expected getting it through the study are:

1. Design, assembly, programmizes and calibrate the acquisition temperature system.
2. Working on and testing the experimental's devices (FWD and Arduino thermometer).
3. Describe the temperature's behavior on asphalt's layer of road's pavements type flexible and semi-rigid.
4. Study the relationship between temperature at different layers for the experiments (Air temperature, Surface pavement temperature and mid-depth temperature). Then study the relationship between temperature data that measured by Arduino thermometer and temperature measured/calculated by FWD infrared thermometer.
5. Study an effect of temperature changing on pavement's bearing capacity (temperatures versus pavement's deflection).

- Also, this chapter achieved the main steps of the experiment to investigate the effect of temperature changes on pavement performance, and we could describe it as below:

1-Prepare, assembly and programmizes a special thermometer for the experiment.

2- Calibrations of Arduino thermometer system.

3-Install the thermometer system, operate, and collect the data from the device.

4- Calibrations of falling weight deflectometer device (geophone calibration, drop time calibration).

5-Mark out the aimed testing sites. select the suitable time to measuring and obtaining data by the falling weight deflctometer at a test site, according to experimental research design (pre-experimental research design, true experimental research design and quasi-experimental research design).

6-Analysing the data that obtained according to experiment research design and making the relationships according to the data.

4 Experimental survey

The chapter study the steps of the experimental part of the thesis.

4.1 Description of used equipment

This chapter explains the important parts used in the experiment, divided into two parts, where the first section covers an overview of the parts of the falling weight scale with an explanation of its parts and the program used on it. While the second part covers the method of assembling installing and programming the Arduino temperature sensor, with an explanation of its programming code.

4.1.1 Arduino thermometer software and hardware descriptions

This part of thesis studies the main components for the Arduino thermometer (focuses on hardware and software for the device).

4.1.1.1 Arduino thermometer hardware

The Arduino board type Uno mini was chosen with open-source programming or the so-called OSBSS that fits with the research project. The Arduino system is linked to several temperature sensors, a real time clock, and a specialized part to save the measured data. A DH22 sensor was added to the system to measure air temperature and humidity at the experiment site. Figure 6 show the sketch of Arduino system circle. It can summarize all of what was used in the experiment in table below:

Table 2 Arduino thermometer hardware part

Part	Quantity
Arduino Uno Rev3	1
Temperature Sensor type DS18B20	5
Temperature Sensor type DH22	1
Real-Time Clock Module type (DS3231)	1
Micro SD TF Card Adapter Reader type 6Pin SPI	1

The power source type polymer battery with capacity 10 000 mAh used to provide stable and continuous working all over the experiment.

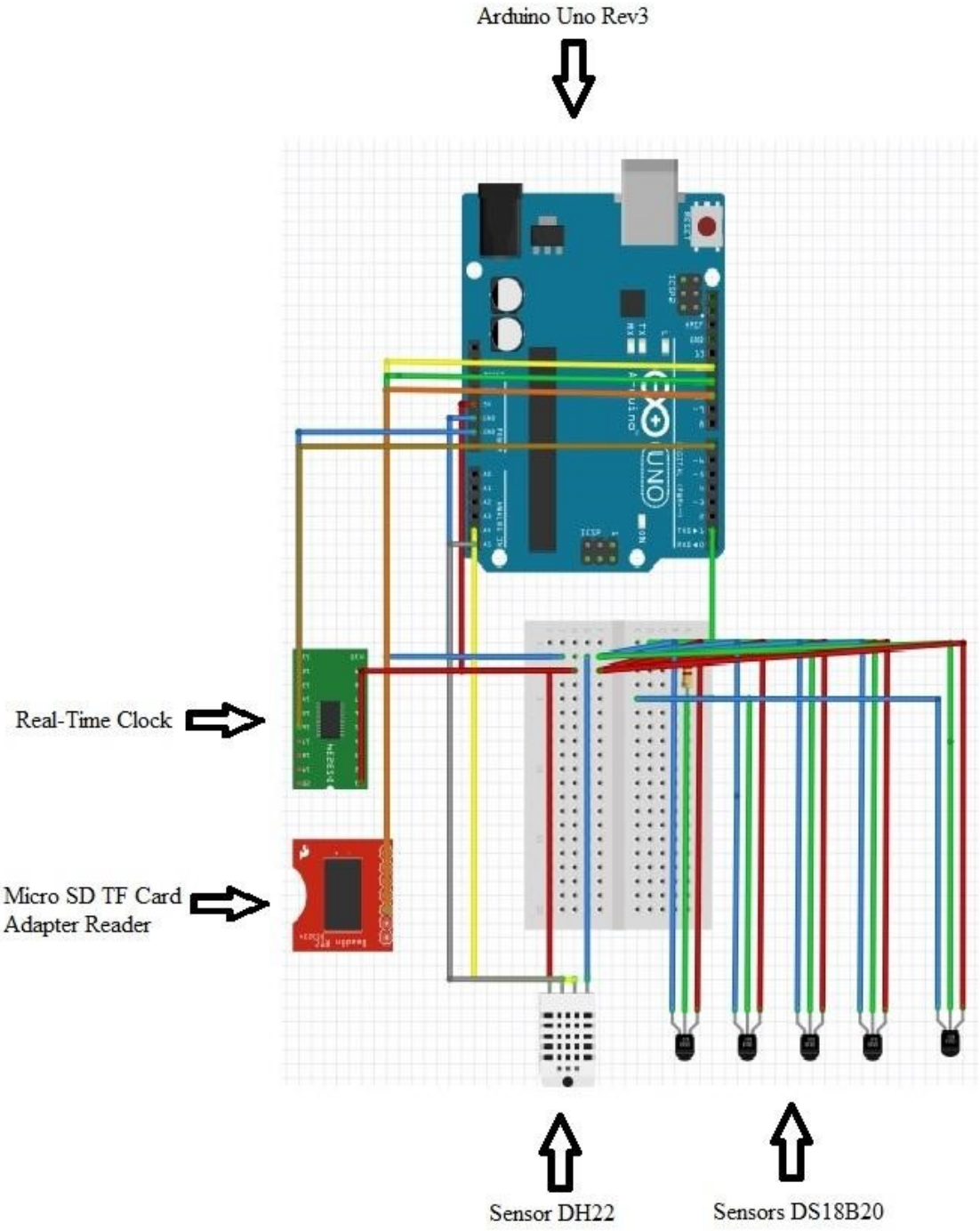


Figure 6 Design of Arduino thermometer system

4.1.1.2 Arduino thermometer software

The Arduino system is used the Open-Source Building Science Sensors (OSBSS) project which utilized to the development of the basis data conquest hardware (www.Arduino.com). The system programmizes to record, collect and upload date from different types of temperature sensors and save the data in memory Ram. The main steps that described in the code used in this experiment is down below:

1. Connect the main parts to Arduino Uno Rev.
2. Defined the library of the accessories in main program.
3. Install individually every part of accessories.
4. Connect and install the real time clock.
5. Install the timer, and defined the start time, and power the system.

The Arduino program that used for programming is shown below,

Figure 7 Arduino's thermometer program

4.1.1.3 Arduino thermometer calibration

The Arduino thermometer system had made calibrations with professional thermometer model FLUKE 574 from FLUKE company, and thermometer model VOLTCRAFT IR 900-30S from VOLTCRAFT company. The first calibration was made by collect all sensors type DS18B20 with sensor type K -attached with VOLTCRAFT IR 900-30S and put all group into water. The calibrate operation was continued recording the temperatures which loading from these sensors. By comparing theses data founded the error in measuring equal from 0.0 to 0.059 in maximum. The figure 8 shown the calibrated operation and thermometer model VOLTCRAFT IR 900-30S from VOLTCRAFT company.

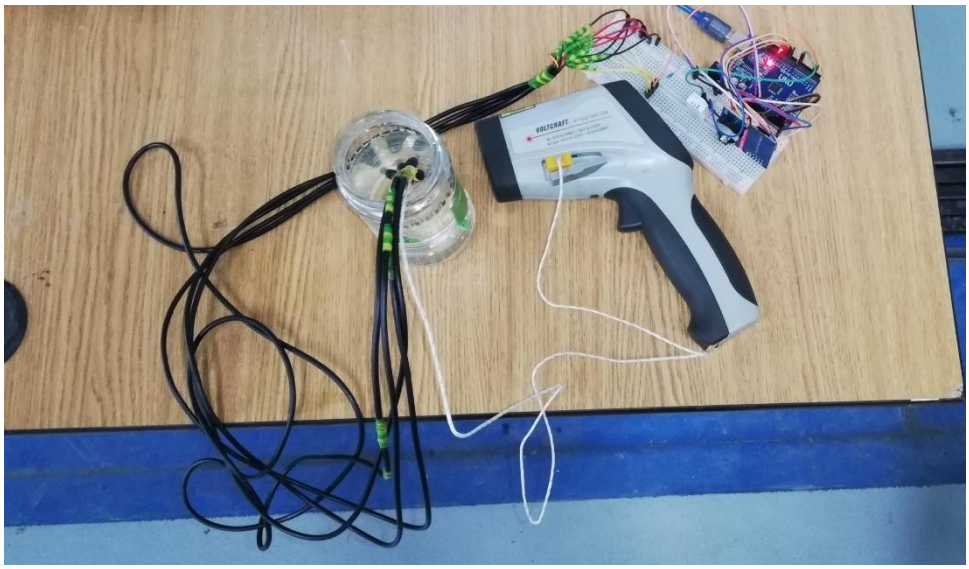


Figure 8 Shown the calibration steps

While the sensor type DH22 was calibrated by measuring the air temperatures in the ambient and compared with measuring air temperature which uploaded from thermometer model FLUKE 574. The result was came close together. The picture 9 shown the thermometer model FLUKE 574 that used in calibration.

Figure 9 Thermometer model FLUKE 574.,

(*Fluke 574 Manuals | ManualsLib*, 2018)

4.1.2 Rodos Falling weight deflectometer descriptions

This part study the main components for the falling weight deflectometer type Rodos (look overview on the hardware and software for the device).

4.1.2.1 Falling Weight Deflectometer hardware

The Rodos falling weight deflectometer device provide from company Rodos-Praha .a s. is used in the experiment. The device working according to Czech standards number ČSN 736192. It has 4-stroke petrol engine Briggs & stratton 6.5 HP and the technical specifications described below:

- Length of the unfolded HWD is about 363 cm.
- Width of FWD of the device is 169 cm.
- Height of HWD of the device is 117 cm.
- Height of the towing ball is 45 cm.
- The weight of falling mass about 320/600 kg.
- Dimension folded FWD are being (LxWxH)215x170x100cm.
- The total weight being approximately 900 kg for FWD device.
- 9 geophones standardly placed on the measuring frame at distances of 0, 300, 450, 600, 900, 1200, 1500, 1800 and 2100 mm from the center of the load plate (*Rodos-Praha*, 2016).

Figure 10 falling weight deflectometer device, different views

Operation parameter

- The device can be transported behind the measuring vehicle (car or truck).
- The trailer is equipped with an inertia brake.
- The device can measure independently of the towing vehicle.
- The load-bearing mass consists of steel semicircular segments - 14 pieces of 18 kg.
- The damped shock is caused by the fall of the mass from a given height on the rubber bumpers, the number and rigidity of which can be changed - max. number of 8 pcs.
- The length of the load pulse is 20 - 35 ms.
- The load plate is 4 divided with a diameter of 300 mm with ball joints, ensuring the correct seating of the plate on the road, glued with grooved rubber.
- Max. fall height 47 cm.
- Working load range 25 - 150 kN.
- Measurement time of a sequence of 3 strokes at the measured point 12 - 25 sec depending on the force.
- FWD power when measuring after 50m to 10 km / h.

4.1.2.2 Falling Weight Deflectometer software

The Falling weight deflectometer device is supported with field software for a computer that allows operating a hydraulic system either manually or automatically.

The FWD software operator has a very flexible choices to select from data based (e.g., number of drops, length of the cycle of the working process, sequences, and height of the drops to create the required impact load). Field software is obtaining continuously the data measured from geophones and load cell.

The program was designed to provide the data that were measured at the site of the experiment in various forms to clarify it and facilitate both studies and analysis, and it also allows sharing of data in the measurement files to different programs. Figure 11 and 12a,b shown the starting falling weight deflectometer program from Rodos company and figure 12a shown Falling weight deflectometer program-the force applied [kN] against time while 12b show the deflection [μm] against position [mm].

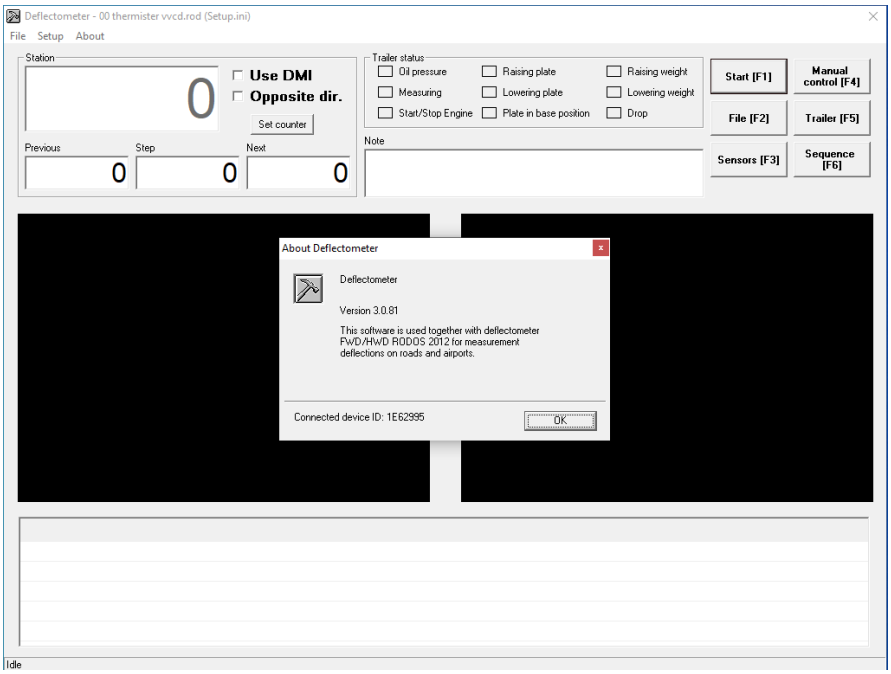
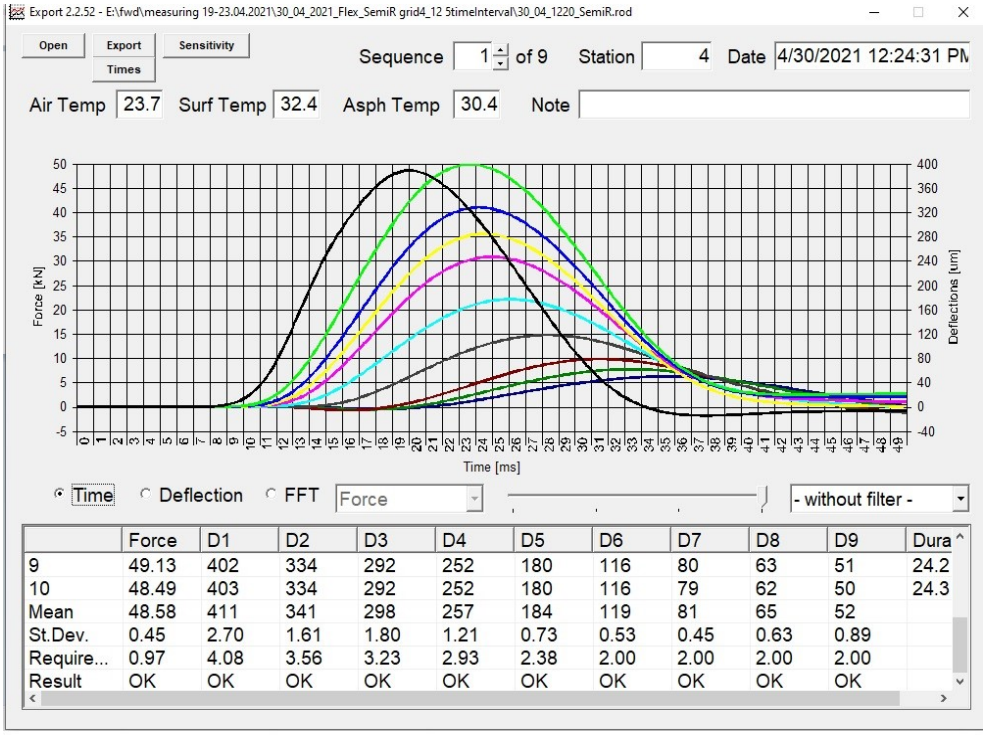
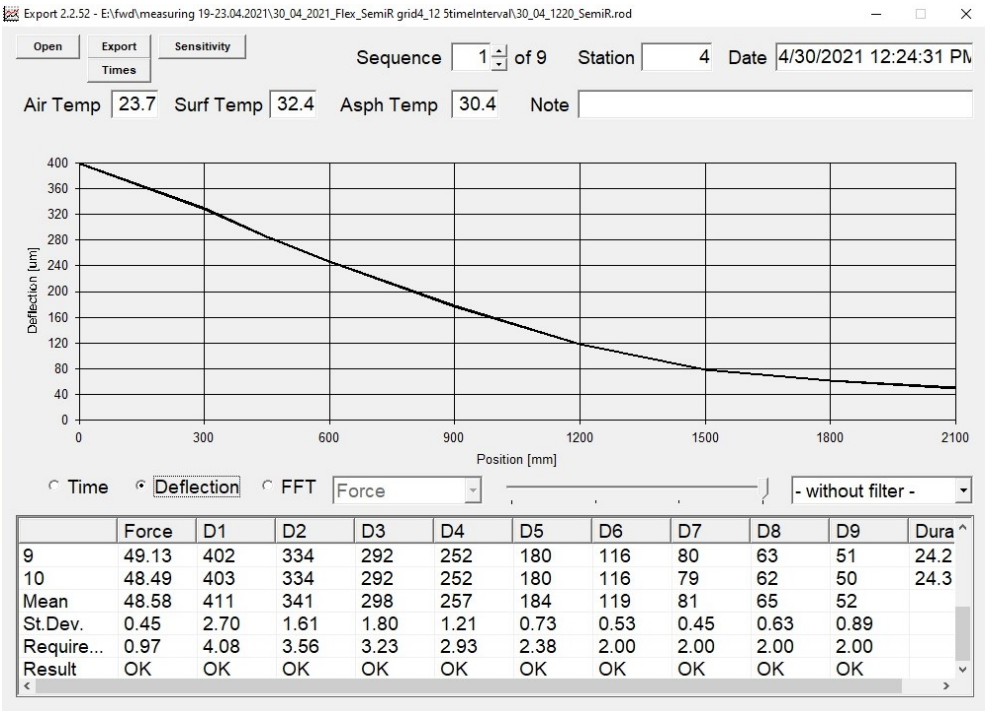


Figure 11 Started falling weight deflectometer program from Rodos company



	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Dura
9	49.13	402	334	292	252	180	116	80	63	51	24.2
10	48.49	403	334	292	252	180	116	79	62	50	24.3
Mean	48.58	411	341	298	257	184	119	81	65	52	
St.Dev.	0.45	2.70	1.61	1.80	1.21	0.73	0.53	0.45	0.63	0.89	
Require...	0.97	4.08	3.56	3.23	2.93	2.38	2.00	2.00	2.00	2.00	
Result	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	

Figure 12 a Falling weight deflectometer program-the force applied [kN] against time.



	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Dura
9	49.13	402	334	292	252	180	116	80	63	51	24.2
10	48.49	403	334	292	252	180	116	79	62	50	24.3
Mean	48.58	411	341	298	257	184	119	81	65	52	
St.Dev.	0.45	2.70	1.61	1.80	1.21	0.73	0.53	0.45	0.63	0.89	
Require...	0.97	4.08	3.56	3.23	2.93	2.38	2.00	2.00	2.00	2.00	
Result	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	

Figure 12 b Falling weight deflectometer program- deflection[µm] against position [mm].

4.1.2.3 Pre-experimantal falling weight deflectometer testing and calibration

To fulfilled experiments standard conditions according to Czech standard ČSN 73 6192. Three main steps were made:

A/ Geophone calibration

The calibration was made to the FWD device by making 10 drops on testing points. In first time the result showed inhomogeneous analysis for the pavement. The standard analysis of the deflection should decrease as it moves away from the center gravity of the plate. The result that we got were had increased at one geophone which was geophone number 7, while other geophones were decreased when moves away from the center of drop. The figures 13 and 14 shown the calibration on two testing sites. The defect on the falling weight deflectometer was diagnosed. One of the geophones (geophone number 7) was not fitted correctly. The problem was fixed when the geophone was reset. Finally, the deflection curve was smooth and similar behavior got as describe at falling weight deflectometer standards ČSN736192.

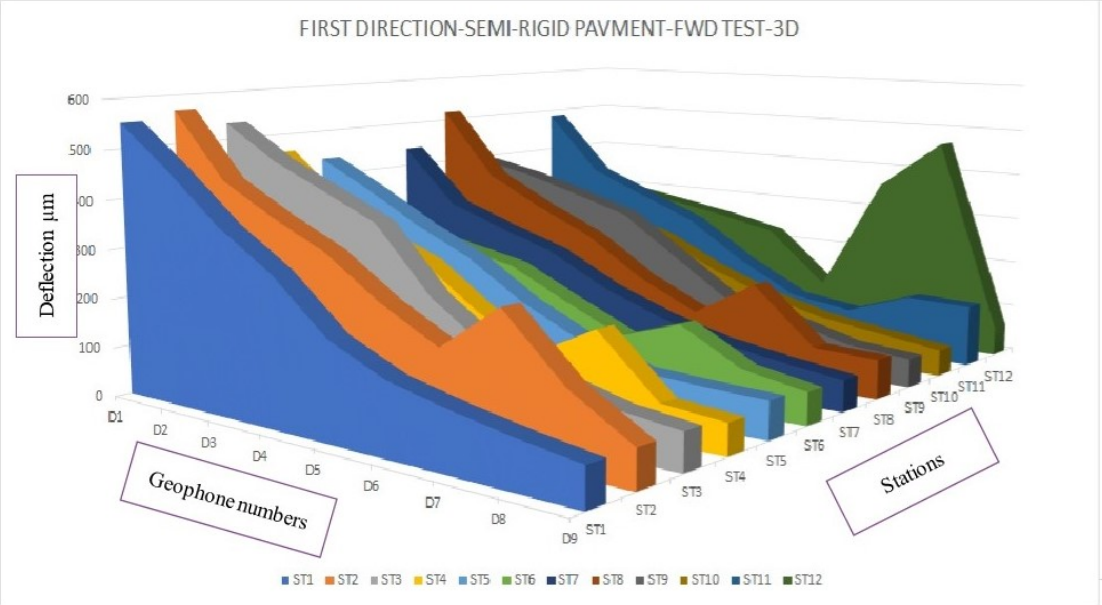


Figure 13 Calibration on semi-rigid pavement

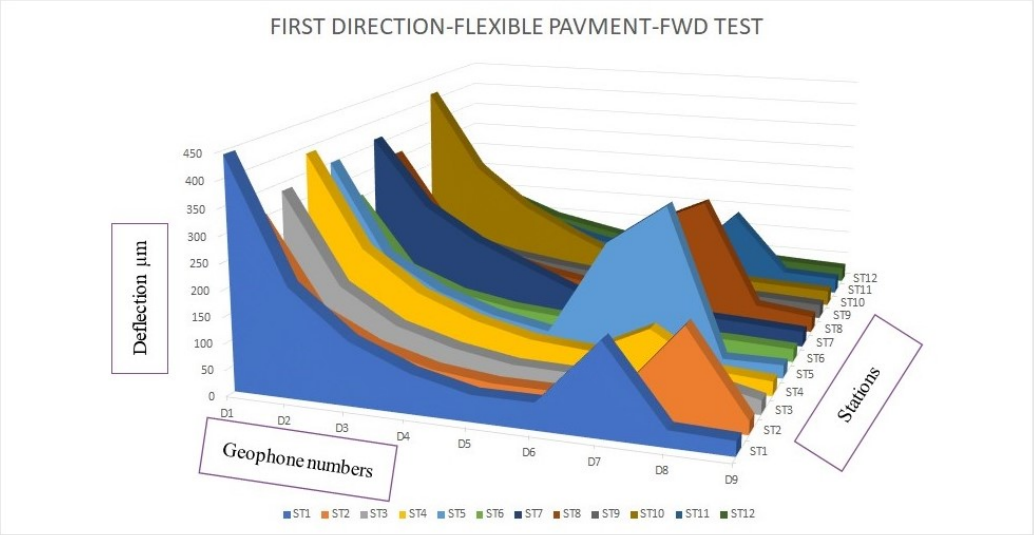


Figure 14 Calibration at flexible pavement

B/ Time pulse calibration

The time value of the shock pulse duration is set by the number of rubber silent blocks under the weight. From the experiment shown the value was below 20 ms. According to standards ČSN736192, the value must be between 20-35 ms. So, it dealt with to remove silent block. Figure 15 shown the location of silent blocks under the load impact mass with a view of the segmented plate.

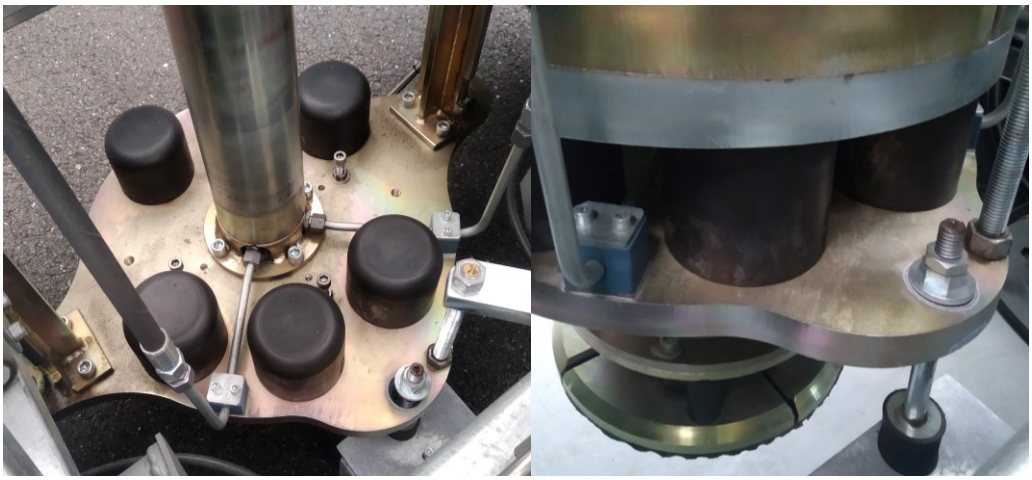


Figure 15 Location of silent blocks under the load impact mass with a view of the segmented plate

C/ Force load calibration

The force load calibration was one of the main steps done to fulfill the experiment. For making proposal calibration for forces that applied throughout the experiments. It is taken as 50 kN as a force load. All deflection data were calculated according to proposal calibration which is 50 kN.

4.2 Experiment design and workflow

This chapter is deals with the describing conducting the experiment below.

4.2.1 Preparation and description of testing site

For analyzing pavement, the first important is to have the right and wisely planning for the tests including the test configuration and location. In general, the procedure used to detect the bearing capacity evaluation by using a falling weight deflectometer is to detect deflections in as many as considerable points of the testing area. In studies of road pavements, generally, the targeted points are located along the vehicle wheel paths. For evaluation of road pavements, FWD tests are made along the external side wheel paths that has probably more deteriorated than the other part of the pavement. The deflection measurements will take above the wheel paths, allow for better contact between the pavement and the loading plate. The tests will perform in two locations. In each site, the testing is made at equal distances. It was chosed according to the area of the site to be tested. The baseload was chosen to make better simulate the traffic load for the target pavement under survey. The baseload and the height of the plate were chosen. According to the type of pavements to be tested and the traffic loads. The value of the top load was adopted for making the test in the experiment's pavement 50 kN. According to standards the advices value that using in road pavements is between 40-70 kN, while dropping's number that be made are ten drops. In general, the higher the number of drops, the more accurate the target area will be tested.

The experiment is going side by side with an Arduino thermometer system that is applied in the site. The main mission for the thermometer is to make a temperature's figure for the targeted area, with different and studied depths. Figure 16 shown the drilling steps in the site to install the sensors.

Figure 16 The drilling steps in the site

The experiment survey consists of making non-destructive tests by FWD equipment to compare the bearing capacity for different types of pavements under different temperature ranges within the time survey of the experiment. This experiment is going side by side with a thermometer system were there installed in sites. Two types of pavement are covered to make the survey, we can describe the site as:

Site number one:

As shown in figure 17, totally the pavement consists of four layers. Two layers of asphalt concrete type ACO +11 thickness 40 mm and type ACP +16 thickness 60mm, and one layer of layers bonded with hydraulic binders, that are a layer of cement-bonded mixture type SC c8/10 thickness 130mm and one layer of unbound layer type SD thickness 200mm. The age of pavement is relatively new within +5 years. The site is low-capacity traffic, approximately 40 vehicles per day. The site is roughly considered the entrance to the construction laboratory. So, all types of vehicles driving above it. The site is located at an open area near of it one approximately 8 meters high building. The weather conditions (sun sight, rain wind...etc.) are directly face it.

Figure 17 Preparation site number number1, flexible pavement.

the area covered by experiments is 2*3 meters for the Arduino thermometer's system and FWD test. Six thermo-sensors were uploaded to the thermometer system. Sensor number one type DH22 was measuring the temperature at air and the humidity. Five sensors type DS18B20 installed in the site in five different depths, first one was on the pavement's surface, while the four others were put in pavement depths. The process of choosing the appropriate depth for the temperature sensor depends on the thickness of each layer, which means that the number two sensor has been placed in the layer Asphalt concrete ACO+11 at 5 centimeters depth, while the third one was put in 10 centimeters at the end of ACP +16 layer, the fourth sensor was put in 23 centimeters at the end of SC c8/10 layer and the last one was put in-depth 43 centimeters at the end of SD layer, as shown in figure 18 and 19.

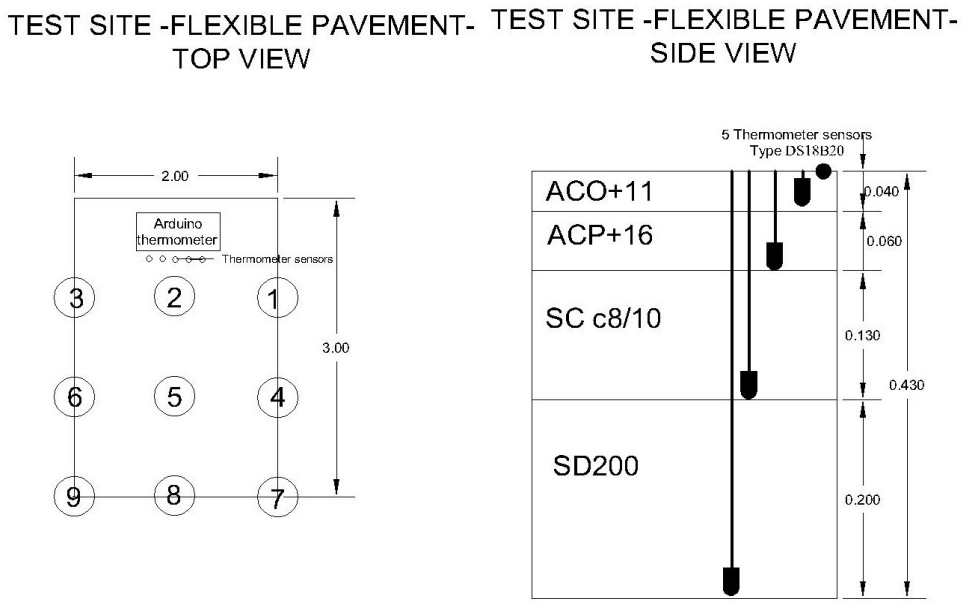


Figure 18 Top view and side view for location one, type flexible pavement

Figure 19 Thermometer sensors installed in the site number1, flexible pavement

Site number two:

As shown in figure 20 can be described it like a mixing between flexible and semi-rigid pavement, totally the pavement consists of three layers. first layer type asphalt concrete type ACO +16 thickness 75 mm, and the second layer type cement concrete covers type CB 111 thickness 210 mm and third layer of unbound layer type SD thickness 200mm. the age of pavement is old within ≥+25 years. The site is low-capacity traffic, approximately 40 vehicles per day. The site is roughly considered intersection of the laboratory's buildings. So, all types of vehicles driving above it. The site is located at an open area near of it (approximately 10 meters) high building. The weather conditions (sun sight, rain wind...etc.) are directly face it.

Figure 20 Preparation for the site number two, semi-rigid pavement

The area covered by experiments is 2*3 meters for the Arduino thermometer's system and FWD test. Six thermo-sensors were uploaded to the thermometer system. Sensor number one type DH22 was measuring the temperature at air and the humidity. Five sensors type DS18B20 installed in the site in five different depths. First one was on the pavement's surface, while the four others were put in pavement depths. The process of choosing the appropriate depth for the temperature sensor

depends on the thickness of each layer, which means that the number two sensor has been placed in the layer Asphalt concrete ACO+16 at 4 centimeters depth, while the third one was put in 10 centimeters at the end of CB 111 layer, the fourth sensor was put in 23 centimeters at the end of CB 111 layer and the last one was put in-depth 43 centimeters at the end of SD layer.

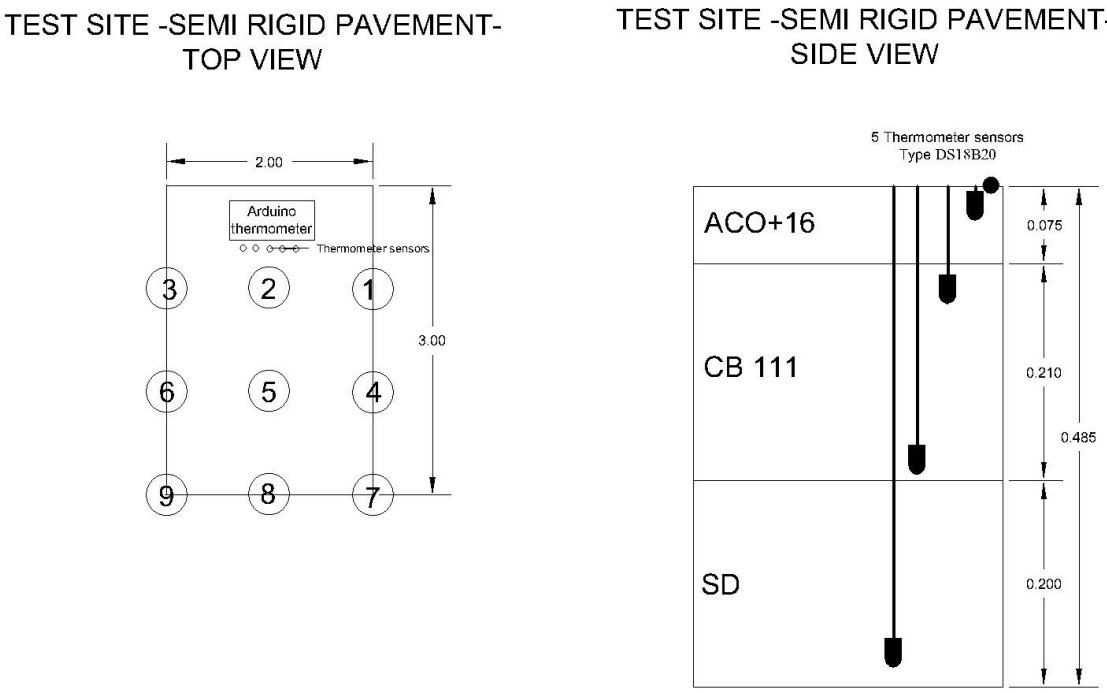


Figure 21 Top view and side view for location two, type semi-rigid pavement

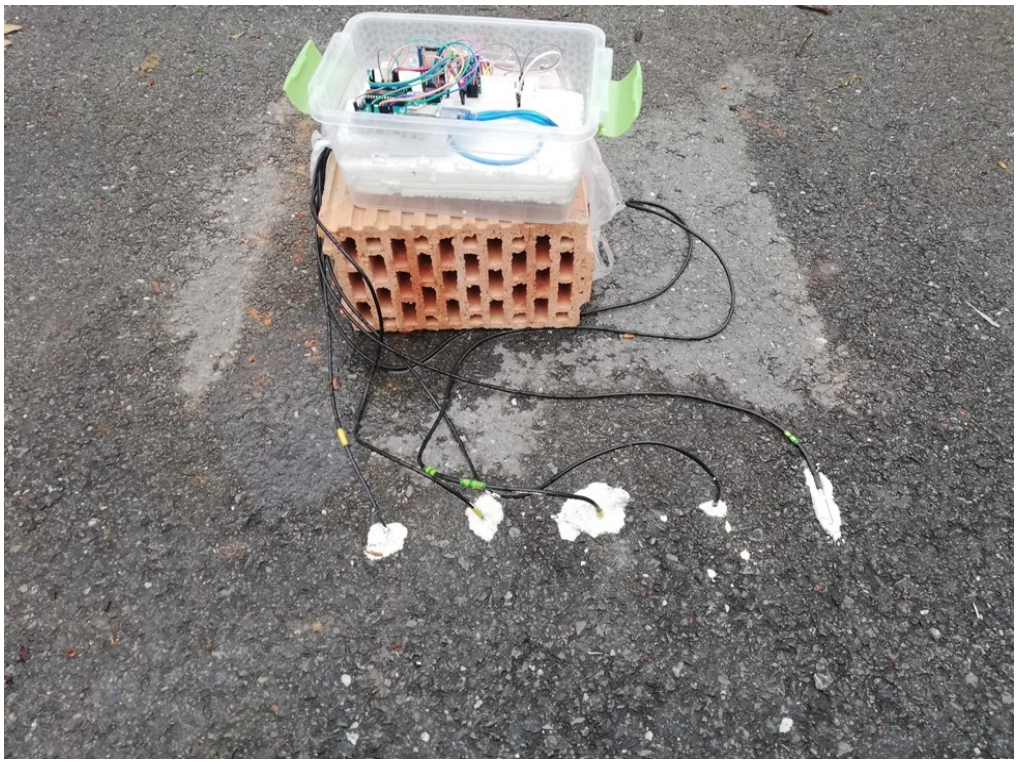


Figure 22 Thermometer sensors installed in the site number 2, semi-rigid pavement

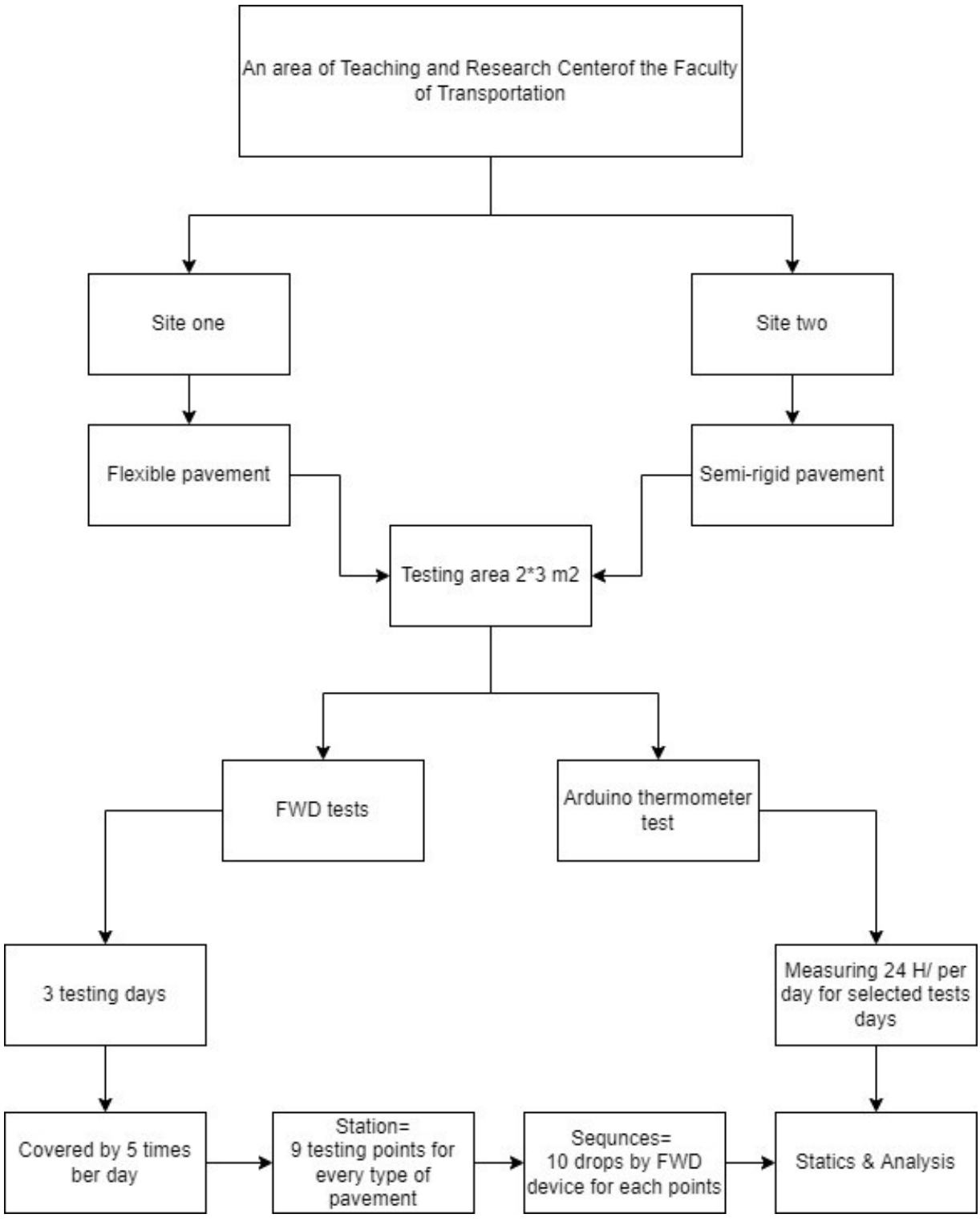
4.2.2 Measurement process

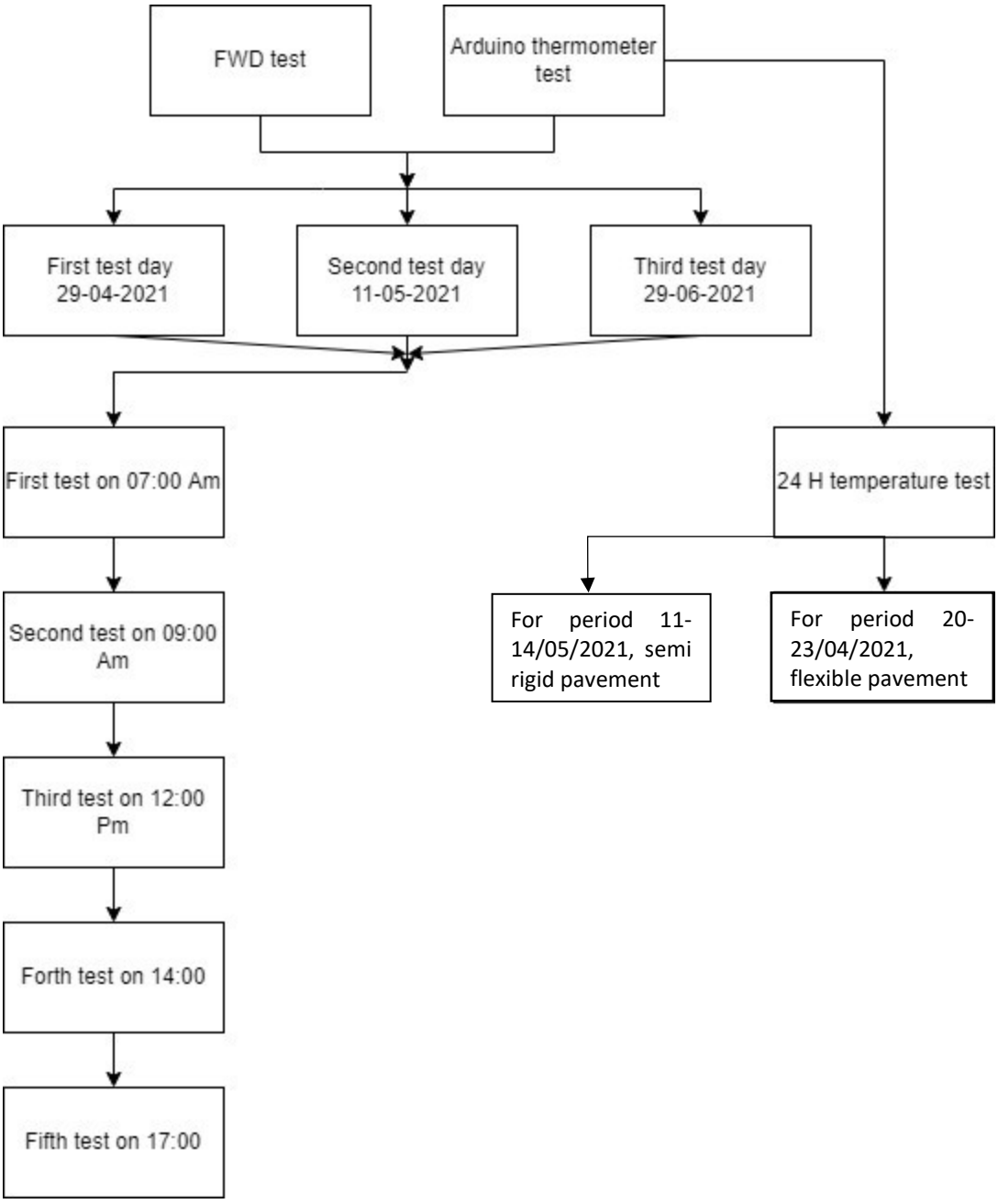
Experimental tests started in February - 2021 on the targeted area for testing at the Teaching and Research Center of the Faculty of Transportation - University of Pardubice in Pardubice District.

Figure 23 Research Center of the Faculty of Transportation site locations

*(*Mapy.Cz*, 2021)*

The tests continued for four months. Through these months, three days were chosen for make the deflection test executed by falling weight deflectometer device. Five pavement's deflection tests were made per one day on every testing side (flexible pavement and semi-rigid pavement). First deflection test was morning on 7:00 Am and another four tests were every tow/three hours. The testing time were on 07:00 Am, 9:00, 12:00 Pm, 14:00 Pm and 17:00 Pm. the deflection test made by falling weight deflectometer including 10 drops for every 9 points that chosen for every location test (location number one consist of flexible pavement and location number two consist of semi-rigid pavement). The Arduino thermometer was working side by side through the experiments and also through days. The flow charts below showing the main steps for the experiments:


An area of Teaching and Research Centerof the Faculty of Transportation
Site one
Site two
Flexible pavement
Semi-rigid pavement
Testing area 2*3 m2
FWD tests
Arduino thermometer test
3 testing days
Measuring 24 H/ per day for selected tests days
Covered by 5 times ber day
Station= 9 testing points for every type of pavement
Sequnces= 10 drops by FWD device for each points
Statics & Analysis


FWD test
Arduino thermometer test
First test day 29-04-2021
Second test day 11-05-2021
Third test day 29-06-2021
First test on 07:00 Am
Second test on 09:00 Am
Third test on 12:00 Pm
Forth test on 14:00
Fifth test on 17:00
24 H temperature test
For period 11-14/05/2021, semi rigid pavement
For period 20-23/04/2021, flexible pavement

During that time, all detailed information were picked up. We can describe this information:

1-The date and time of testing.

2-Equipment's information.

3-Weather conditions.

4-Section information like (type of pavements, type and category of street, load traffic).

5-Load deflection data (force)

6-FWD temperature's data such as (temperature's Air and pavement temperatures).

7-The Sensor orientations and spacings.

8-Applied loads on pavements.

The sample area that tested by falling weight deflectometer equipment, were as the shape below:

Site number one:-

The data that obtained by FWD device and Arduino thermometer are enclosure, where the average deflections that picked up from the flexible pavement for testing days from three months (April, May, and June), like in table 2 and table 3 shown below:

Table 3 Average falling weight deflectometer deflection for testing days(3days) through experimental period (4months) for site flexible pavement

Date	Time	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Air Temperature	Surface Temperature	Asphalt Temperature
30-Apr	7:20	50.13	164.97	91.54	68.21	54.75	42.72	37.47	32.04	27.24	23.71	14.26	14.72	16.72
30-Apr	9:40	50.41	163.93	92.48	68.69	55.01	43.13	36.91	32.28	27.21	23.56	16.40	20.93	21.93
30-Apr	12:10	50.45	164.34	88.85	66.36	54.47	44.20	38.42	33.04	28.19	24.77	24.76	33.41	31.41
30-Apr	14:10	50.45	164.34	88.85	66.36	54.47	44.20	38.42	33.04	28.19	24.77	24.76	39.94	36.94
30-Apr	16:50	49.32	169.16	84.38	63.51	54.11	45.10	39.41	33.63	28.94	25.29	30.97	37.14	35.14
11-May	7:30	49.91	158.22	90.92	68.51	55.89	44.63	38.65	33.07	28.30	24.81	23.19	20.18	22.18
11-May	9:00	49.92	158.16	90.21	67.96	55.60	44.94	38.93	33.37	28.53	24.87	23.80	23.24	23.24
11-May	14:40	48.56	169.10	81.84	62.70	54.69	46.53	41.18	34.54	29.82	25.83	33.79	44.49	41.49
11-May	12:40	48.64	166.78	83.61	63.20	54.22	45.67	39.68	34.35	29.44	25.64	34.11	44.32	42.32
11-May	16:50	48.25	172.21	84.73	65.42	56.76	47.72	41.32	34.96	30.21	26.21	33.94	45.44	43.44
29-Jun	9:00	49.07	146.66	81.38	61.13	50.81	41.77	36.75	31.45	27.32	24.15	23.29	24.74	24.74
29-Jun	7:00	49.05	145.75	78.90	60.25	50.21	41.20	36.08	31.40	27.45	24.07	22.56	25.06	27.06
29-Jun	11:30	49.81	150.18	80.35	60.88	51.62	43.58	37.91	32.78	28.19	24.63	31.20	34.42	33.42
29-Jun	16:50	47.44	161.36	74.84	58.46	51.77	44.25	38.42	33.24	28.65	25.08	36.32	45.29	43.29
29-Jun	14:30	48.08	159.28	76.38	59.07	51.52	43.59	37.83	33.06	28.36	24.95	40.36	47.98	44.98

Where		
Date	=	The date of the experiment.
Time		The time of the experiment.
D1	=	Deflection value under load center [µm].
D2	=	Deflection value at distance 300mm from load center [µm].
D3	=	Deflection value at distance 450 mm from load center [µm].
D4	=	Deflection value at distance 600 mm from load center [µm].
D5	=	Deflection value at distance 900mm from load center [µm].
D6	=	Deflection value at distance 1200 mm from load center [µm].
D7	=	Deflection value at distance 1500 mm from load center [µm].
D8	=	Deflection value at distance 1800 mm from load center [µm].
D9	=	Deflection value at distance 2100 mm from load center.
Air temperature	=	The temperature that measured at the air by FWD thermometer [°C].
Surface Temperature	=	The temperature that measured at the surface of pavement by infrared FWD infrared thermometer [°C].
Asphalt Temperature	=	The temperature that calculated at the mid-depth pavement by FWD thermometer [°C].

The average temperature that measured by Arduino thermometer from the flexible pavement for experiments time are:

Table 4 Temperature recorded by Arduino thermometer for testing days(3days) through experimental period (4months) for site flexible pavement.

Date	Time	Surface Temperature	T2	T3	T4	T5	Air temperatrue	HUMIDITY
30-Apr	7:20	11.75	13.38	14.19	14.75	15.69	11.9	51.7
30-Apr	9:40	16.75	15.75	14.31	14.38	15.56	14.7	57.2
30-Apr	12:10	28	25	18.87	14.88	15.44	20.9	35.4
30-Apr	14:10	31.37	27.56	21.56	16.06	15.69	24.6	29.7
30-Apr	16:50	26.37	26.94	23.62	17.87	16.37	22.2	34.8
11-May	7:30	17.44	18.69	19.56	20.06	20.62	17.2	66.1
11-May	9:00	18.5	19.19	19.37	19.69	20.37	20.5	61.6
11-May	12:40	38.63	34.88	26.87	20.62	20.19	46.4	21.1
11-May	14:40	39.06	35.19	29.44	22.31	20.62	32	27.5
11-May	16:50	34.5	34.88	30.75	23.75	21.37	32.9	27.7
29-Jun	9:00	23.12	25	26.5	27.94	29.5	19.7	84
29-Jun	11:30	28.62	27.5	26.25	26.75	28.69	24.4	81.7
29-Jun	14:30	39.19	35.94	31.19	27.44	28.44	30.1	53.8
29-Jun	16:50	35.81	35.88	33.19	28.81	28.62	31.6	53.6

Where		
Date	=	The date of the experiment.
Time		The time of the experiment.
Surface temperature	=	Temperature measured at the pavement's surface [°C].
T2	=	Temperature measured on 40mm at pavement [°C].
T3	=	Temperature measured on 100mm at pavement [°C].
T4	=	Temperature measured on 230mm at pavement [°C].
T5	=	Temperature measured on 430mm at pavement [°C].
Air temperature	=	Temperature measured at the air[°C].
Humidity	=	The humidity at the weather [%].

Site number two:-

The data that obtained by FWD device and Arduino thermometer are enclosure. Where the average deflections that picked up from the semi-rigid pavement for testing days from three months (April, May, and June), like in table 2 and table 3 shown below:

Table 5 Average falling weight deflectometer deflection for testing days(3days) through experimental period (4months) for site semi-rigid pavement.

Date	Time	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Air Temperature	Surface Temperature	Asphalt Temperature
30-Apr	7:20	49.13	339.96	278.96	239.41	211.99	156.35	102.27	74.03	67.22	57.85	14.51	14.33	16.33
30-Apr	9:40	49.26	340.30	278.26	243.59	210.53	154.61	102.81	81.40	61.99	55.52	18.87	21.51	20.84
30-Apr	12:50	48.48	331.03	274.46	240.21	209.04	153.50	108.08	77.81	59.97	51.74	23.64	31.86	29.86
30-Apr	14:10	47.72	337.11	280.10	246.89	214.54	158.31	115.02	81.47	61.51	51.41	29.74	35.89	32.89
30-Apr	17:10	47.67	319.26	263.67	232.32	204.29	152.15	110.06	78.27	60.38	51.19	28.21	26.59	25.59
11-May	7:45	48.17	339.96	282.01	243.41	212.11	158.15	105.31	76.53	62.36	56.14	22.22	19.17	21.17
11-May	9:40	47.88	339.87	279.49	242.62	211.92	157.04	109.18	76.47	61.66	54.62	26.76	24.51	24.51
11-May	12:50	46.57	330.05	285.31	252.63	220.57	163.47	117.89	84.41	63.16	52.26	35.17	43.11	41.11
11-May	14:40	46.48	327.93	284.63	255.61	223.37	166.34	120.89	87.03	64.46	53.74	36.50	44.16	41.16
11-May	17:10	46.08	331.11	284.38	259.82	222.67	166.30	121.40	86.90	64.38	52.34	35.10	34.59	33.59
29-Jun	9:25	47.48	320.65	261.47	228.03	198.31	144.22	100.44	71.01	57.42	49.86	23.58	24.28	24.28
29-Jun	11:45	47.61	325.86	269.15	236.96	206.52	150.36	109.62	74.05	57.07	49.20	31.94	35.79	34.79
29-Jun	17:10	45.82	324.00	273.92	246.03	213.78	158.42	116.89	82.01	60.79	49.57	38.42	39.17	38.17
29-Jun	14:10	45.99	317.52	285.54	253.83	220.69	163.18	116.48	83.60	61.19	50.25	38.28	45.84	42.84

Where		
Date	=	The date of the experiment.
Time		The time of the experiment.
D1	=	Deflection value under load center [µm].
D2	=	Deflection value at distance 300mm from load center [µm].
D3	=	Deflection value at distance 450 mm from load center [µm].
D4	=	Deflection value at distance 600 mm from load center [µm].
D5	=	Deflection value at distance 900mm from load center [µm].
D6	=	Deflection value at distance 1200 mm from load center [µm].
D7	=	Deflection value at distance 1500 mm from load center [µm].
D8	=	Deflection value at distance 1800 mm from load center [µm].
D9	=	Deflection value at distance 2100 mm from load center.
Air temperature	=	The temperature that measured at the air by FWD thermometer [°C].
Surface Temperature	=	The temperature that measured at the surface of pavement by infrared FWD infrared thermometer [°C].
Asphalt Temperature	=	The temperature that calculated at the mid-depth pavement by FWD thermometer [°C].

The average temperature that measured by Arduino thermometer from the semi-rigid pavement for selected times are:

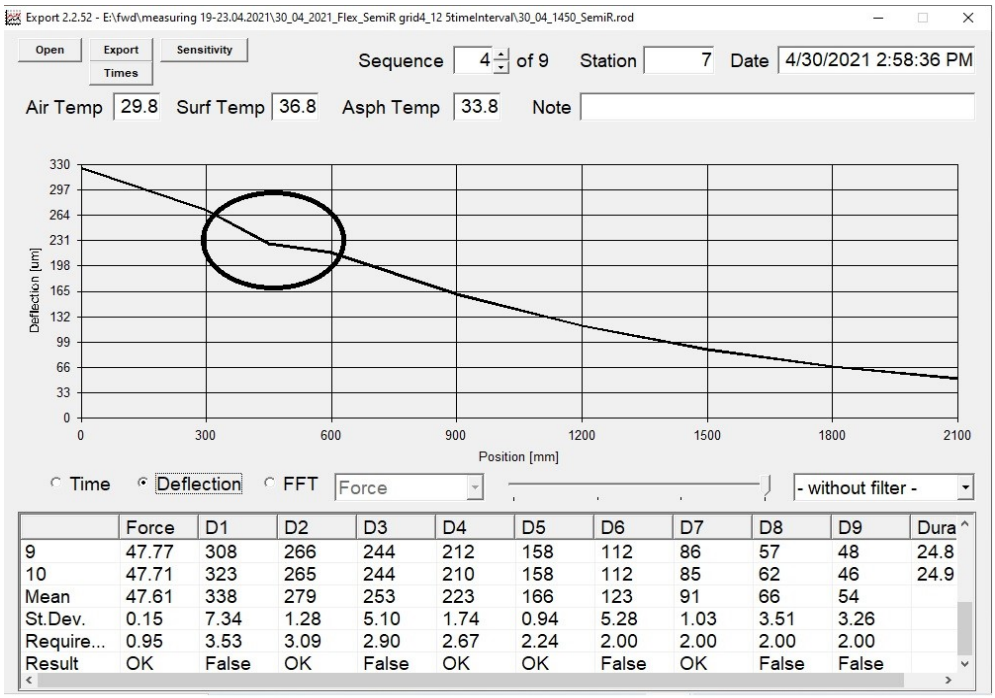
Table 6 Temperature measured by Arduino thermometer for testing days(3days) through experimental period (4months) for site semi-rigid pavement

Date	Time	Surface Temperature	T2	T3	T4	T5	Air temperatrue	HUMIDITY
30-Apr	7:20	11.63	13.06	13.81	14.81	15.38	9.30	89.40
30-Apr	9:40	12.63	13.19	13.56	14.00	15.00	11.10	79.00
30-Apr	12:10	18.19	15.75	15.00	13.75	14.63	17.40	53.10
30-Apr	14:10	20.25	18.19	16.81	14.06	14.56	20.80	42.90
30-Apr	16:50	18.69	18.37	17.75	15.13	14.56	19.00	47.70
11-May	7:30	18.31	18.31	18.31	17.31	16.31	17.90	62.40
11-May	9:00	19.81	19.06	18.69	17.06	16.25	22.40	51.20
11-May	12:40	30.69	23.31	21.44	17.56	16.19	32.60	30.90
11-May	14:40	38.50	29.62	26.31	18.87	16.31	32.40	29.20
11-May	16:50	34.25	32.63	30.56	21.94	16.94	29.90	30.80
29-Jun	9:00	23.12	25.00	26.50	27.94	29.50	19.70	84.00
29-Jun	11:30	28.62	27.50	26.25	26.75	28.69	24.40	81.70
29-Jun	14:30	39.19	35.94	31.19	27.44	28.44	30.10	53.80
29-Jun	16:50	36.19	34.00	32.00	25.87	24.31	32.40	45.40

Where		
Date	=	The date of the experiment.
Time		The time of the experiment.
Surface temperature	=	Temperature measured at the pavement's surface [°C].
T2	=	Temperature measured on 40mm at pavement [°C].
T3	=	Temperature measured on 100mm at pavement [°C].
T4	=	Temperature measured on 230mm at pavement [°C].
T5	=	Temperature measured on 430mm at pavement [°C].
Air temperature	=	Temperature measured at the air[°C].
Humidity	=	The humidity at the weather [%].

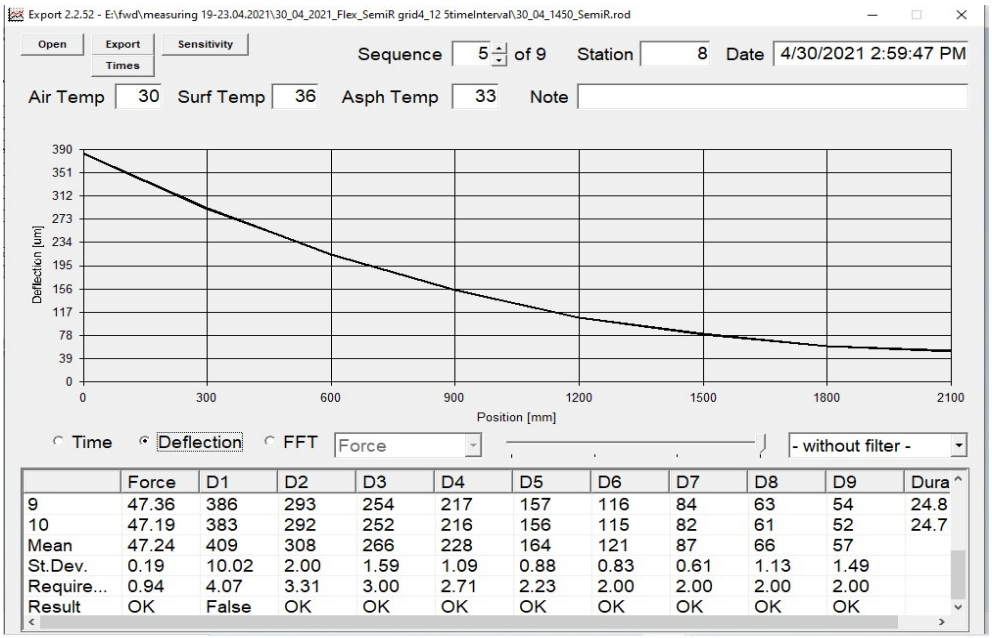
Some results of deflection pavement shows a different behavior when the FWD geophones (one or more of them) were above pavements crack. The deflection figure had a sudden drop and was inhomogeneous in one part as shown in figure 23a. while figure 23b shown the deflection behavior on normal pavement.

The researcher think is when the pavement cracks are bigger, the deviation on the figure is more inhomogeneous.



	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Dura
9	47.77	308	266	244	212	158	112	86	57	48	24.8
10	47.71	323	265	244	210	158	112	85	62	46	24.9
Mean	47.61	338	279	253	223	166	123	91	66	54	
St.Dev.	0.15	7.34	1.28	5.10	1.74	0.94	5.28	1.03	3.51	3.26	
Require...	0.95	3.53	3.09	2.90	2.67	2.24	2.00	2.00	2.00	2.00	
Result	OK	False	OK	False	OK	OK	False	OK	False	False	

Figure 23a Deflection figure on a pavement crack, semi-rigid pavement



	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Dura
9	47.36	386	293	254	217	157	116	84	63	54	24.8
10	47.19	383	292	252	216	156	115	82	61	52	24.7
Mean	47.24	409	308	266	228	164	121	87	66	57	
St.Dev.	0.19	10.02	2.00	1.59	1.09	0.88	0.83	0.61	1.13	1.49	
Require...	0.94	4.07	3.31	3.00	2.71	2.23	2.00	2.00	2.00	2.00	
Result	OK	False	OK	OK	OK	OK	OK	OK	OK	OK	

Figure 23b Deflection figure on a normal pavement, semi-rigid pavement

5. Data evaluation and results

As describing above the experimental field processing data that uploaded from the testing side through experiment period, three days were chosen to make deflection tests by falling weight deflectometer device, two types of pavement were studied (flexible and semi-rigid). The tests made on Pardubice region 237 [M] elevation above sea level.

5.1 Temperature behavior on pavement's layers

Two type of pavements are studied for temperature behavior.

A) Pavement type flexible.

The thermal resistance of pavement behavior depends on a lot of variable specifications e.g., temperature coefficient and weather conditions are on the top. The temperature of the surveying place is most important to understand the behavior of pavement's temperature (not only on the surface of the target but also in-depth). Thus, we can provide an asphalt mixture that has a higher resistance to weather conditions and a lower maintenance rate.

The figures 24, 25, 26, and 27 shown the relationships between the temperatures at air and in different layers of the pavement. The data uploaded in spring season which has unstable weather and temperature changing continuously during the testing month. The data recorded from 20-04-2021 until 23-04-2021. The figure 24 show below the relationship between air temperature and pavement's surface temperature, as cleared the behavior in both places are very similar. The differences were happening a sudden change in temperatures. It could explain because of the changing in densities (the density of air is 1.2 kg/3, while the density of the asphalt mixture ranges between 2.3 to 2.4 tons/m3).

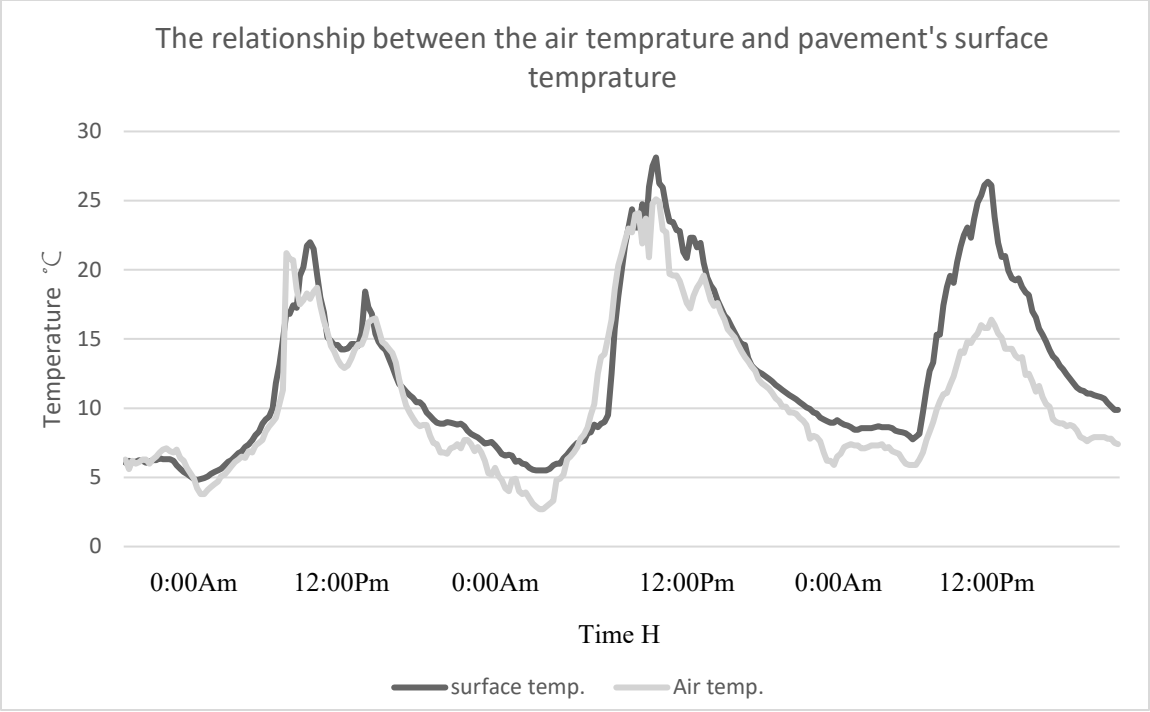


Figure 24 The relationship between air temperature in ambient and pavement's surface temperature, for flexible pavement

The figure 25 showing the relationship between the humidity and pavement surface temperature, the figure confirm that the increasing temperature means decreasing humidity. It can notice that in mid-day when the temperature been at maximum, the humidity been at minimum. This relation had a biggest gap (biggest changing in figure) in summer and hot days and smallest changing in winter.

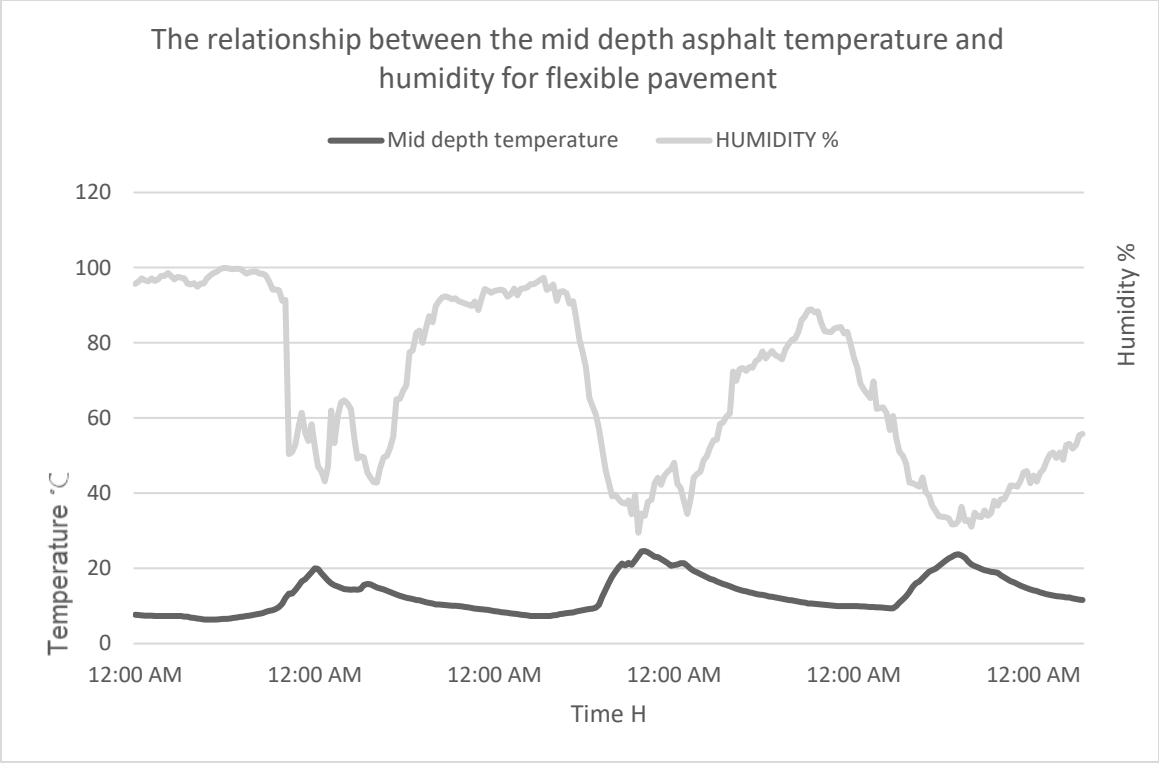


Figure 25 The relationship between the humidity in ambient and pavement's surface temperature

While study the temperature at ambient and pavement's surface, which has a direct relationship the temperature increasing/decreasing harmonically. Funded out that the temperature's relationship between pavement's surface layer and subgrade layer (sensors fourth and fifth) are indirect relationship during certain moments that shown on figures 26 and 27. That means, when temperature increasing through the day, the surface's pavement will also rise but the fifth layer on the experiment (subgrade layer) will decrease. These functions continue until record the max temperature in mid-day. After it, especially when the temperature decreases in first layer, the fifth layer (subgrade layer) will absorb the temperature that coming from top layers. The explaining steps like below:

The shallow pavement's layers being absorbing temperature from the sun through the day while depth layers release it. Or on another word, the fact that asphalt concrete pavement temperature

needs more time to change at sharp increase of air temperature, as asphalt concrete has thermal inertia (thermal resistance).

From figure 27 notice that the deepest layer in the experiment (fifth layer or subgrade layer) has a minimum affecting of temperature within near range and clearly affecting through long range.

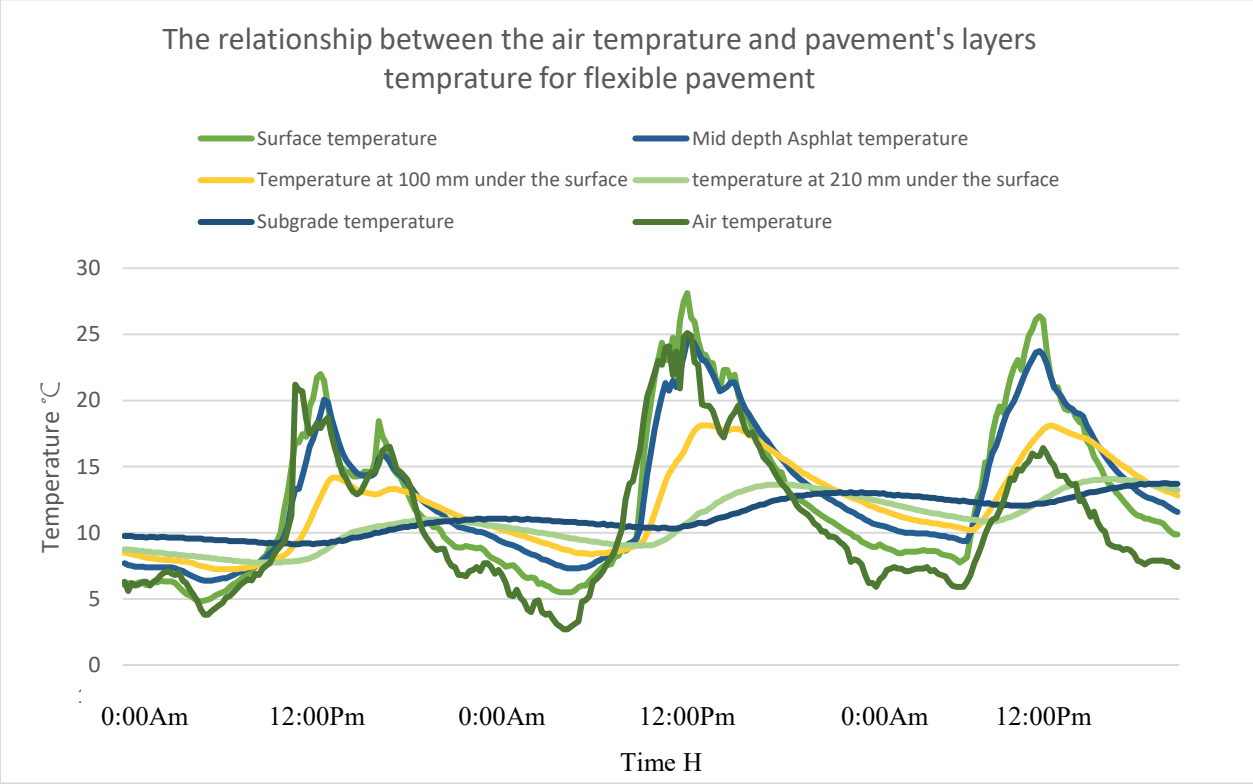


Figure 26 The relationship between temperature pavement surface layers

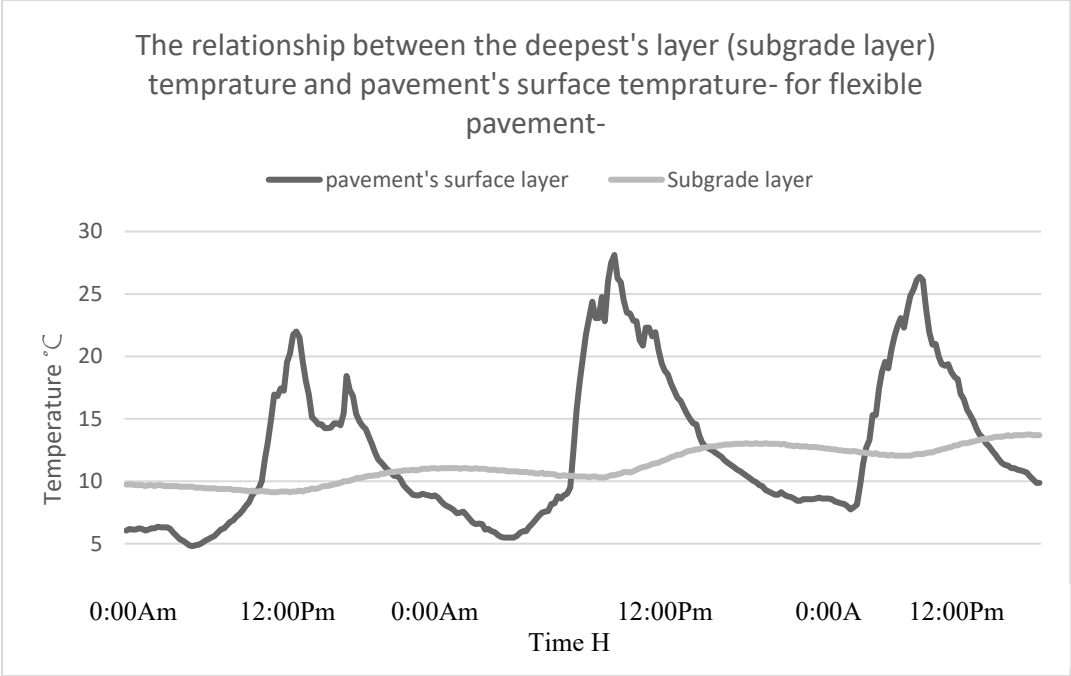


Figure 27 The relationship temperature between pavement's surface layer and deepest pavement's layer.

B) pavement type semi-rigid

The figures 28, 29, 30 and 31 the relationships between the temperatures at air and in different layers of the pavement. The data uploaded in spring which has unstable weather and temperature changing continuously during the testing month. The data recorded from 11-05-2021 until 14-05-2021.

The figure 28 shown the temperature's behavior in the air and on the surface of the pavement type semi-rigid, which appeared to a large extent like behavior of the temperature's figure at pavement flexible. That meaning the temperature behavior in both semi-rigid pavements and flexible pavement had almost the same behaviors. Also, from the figure shown the first layer of the pavement (the surface layer) is considered the most affected layer by the temperature changing (increasing/decreasing) in the ambience. Therefore, the graph of the air temperature and the temperature of the pavement surface appeared close. the relation between them is an expulsion, meaning that when the temperature in the air rises, the temperature will rise in the pavement's surfaces.

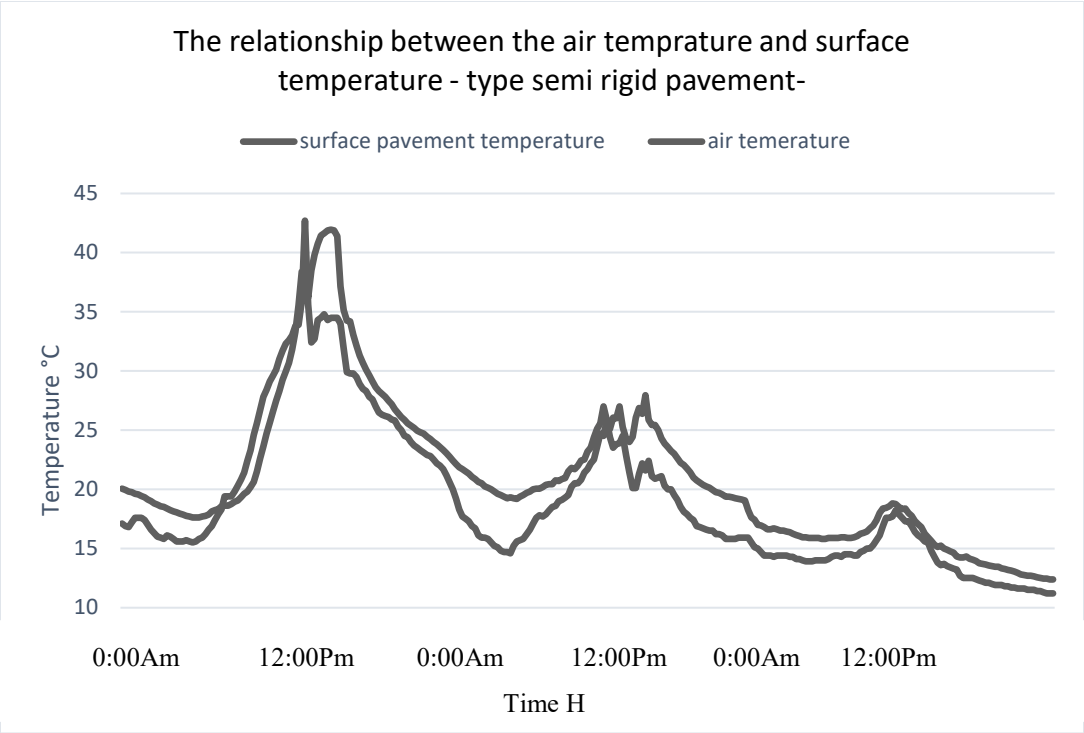


Figure 28 Relationship between air temperature and surface pavement temperature on pavement type semi rigid

The figure 29 showing the relationship between the humidity and pavement surface temperature, the figure confirm that the increasing temperature means decreasing humidity (but not on all condition). It notices that clearly on mid-day when the temperature been at maximum, the humidity been at minimum. But when we look at the second day in the figure, we find that an increase in temperature does not necessarily mean a decrease in the value of humidity. This situation occurs when the temperature rises on a rainy day.

These relations had a biggest gap (biggest changing in figure) in summer and hot days, and smallest changing in winter.

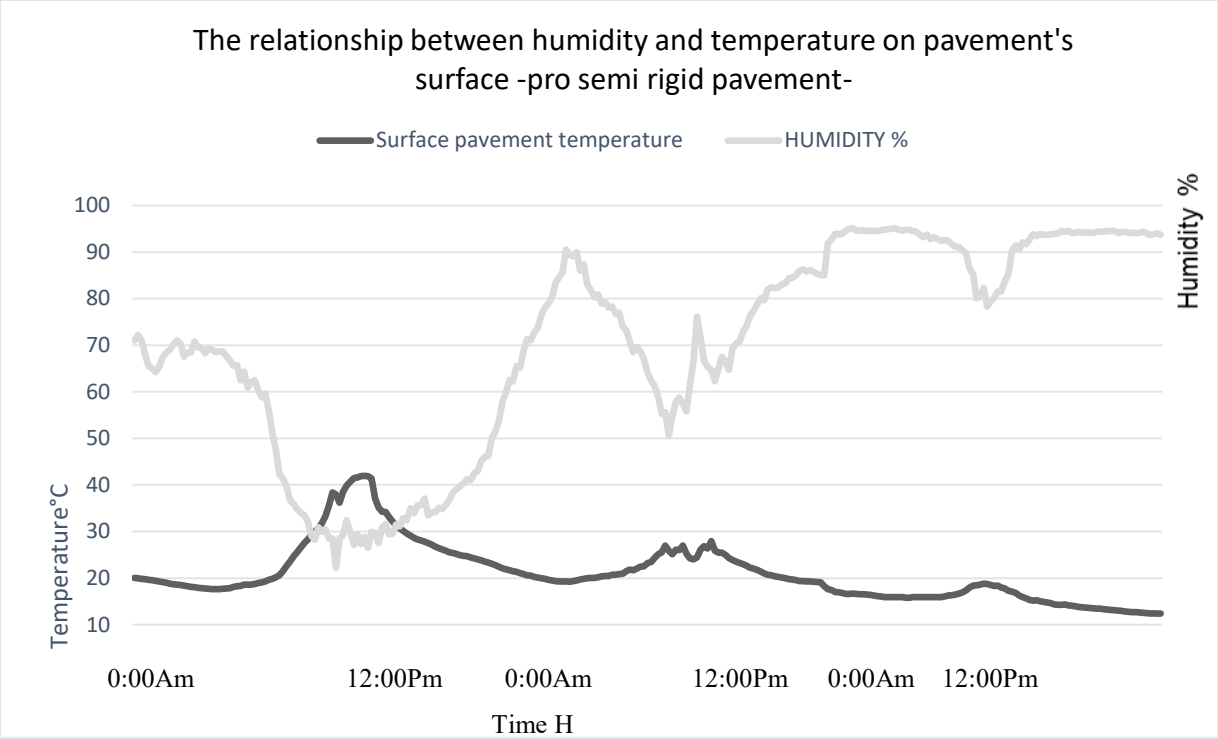


Figure 29 Relationship between air temperature and humidity on pavement type semi rigid

While study the temperature at ambient and pavement's surface, which has a direct relationship the temperature increasing/decreasing harmonically. Funded out that the temperature's relationship between pavement's surface layer and subgrade layer (sensors fourth and fifth) are indirect relationship during certain moments that shown on figures 30 and 31. That means, when temperature increasing through the day, the surface's pavement will also rise but the fifth layer on the experiment (subgrade layer) will decrease. These functions continue until record the max temperature in mid-day. After it, especially when the temperature decreases in first layer, the fifth layer (subgrade layer) will absorb the temperature that coming from top layers. The explaining steps like below:

The shallow pavement's layers being absorbing temperature from the sun through the day while depth layers release it. Or on another word, the fact that asphalt concrete pavement temperature needs more time to change at sharp increase of air temperature, as asphalt concrete has thermal inertia (thermal resistance).

From figure 31 shown that the deepest layer (fifth layer or subgrade layer) has a minimum affecting of temperature within near range and clearly affecting through long range.

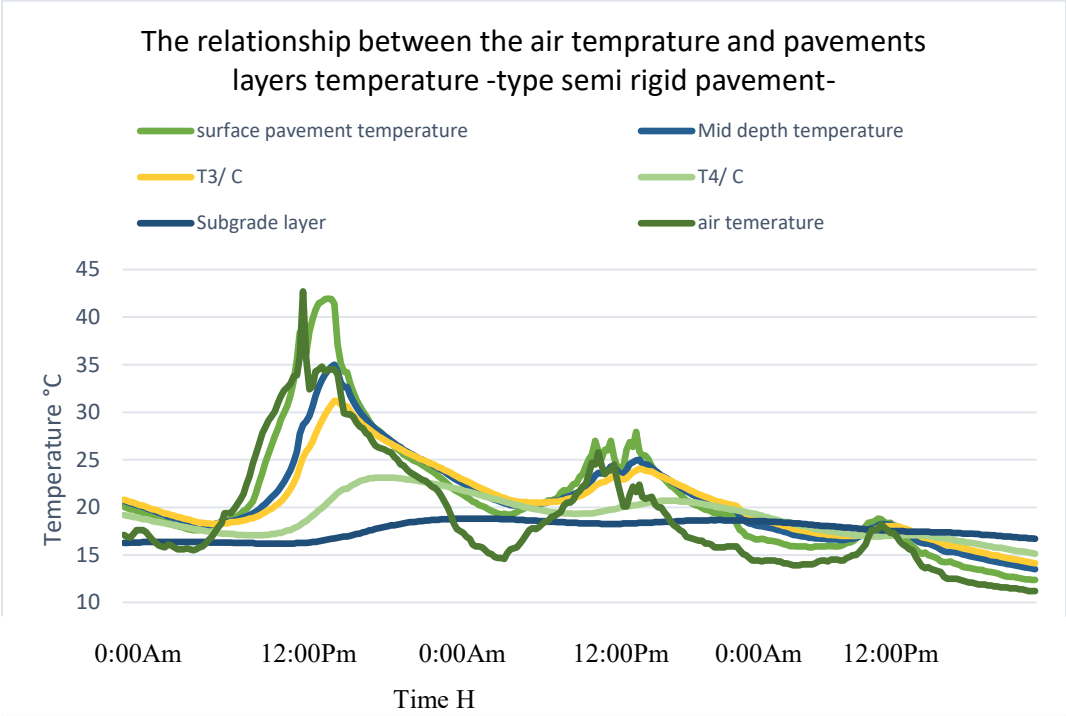


Figure 30 Relationship between temperature pavement's surface layers

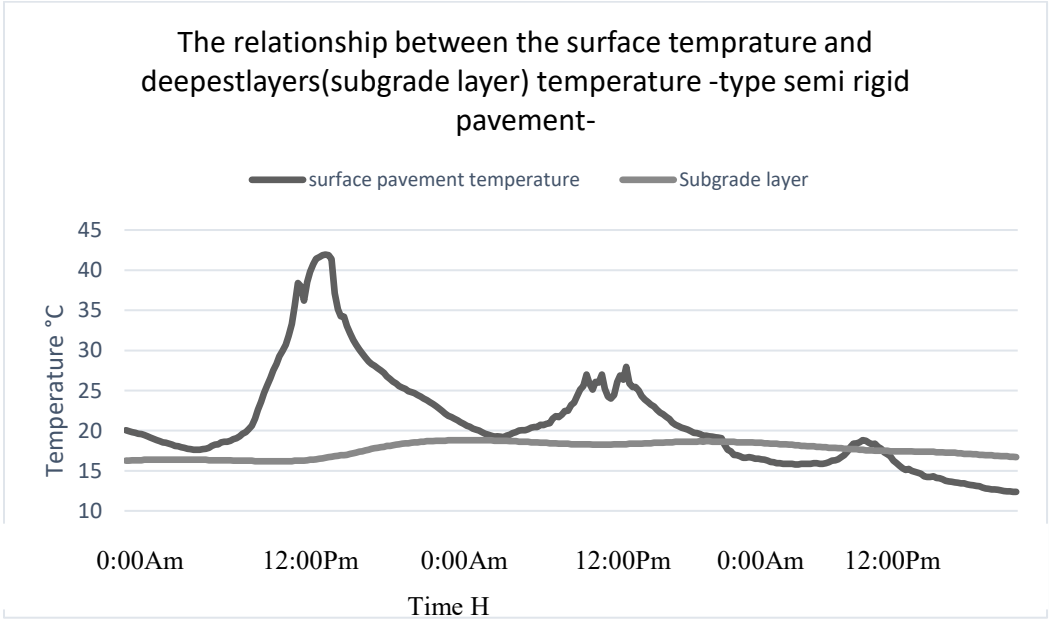


Figure 31 Relationship temperature between pavement's surface layer and deepest pavement's layer.

5.2 Temperature relationship at different layers of the experiment

This part study the relationships between temperatures at different layers e.g., relationship between air temperature and mid-depth pavement temperature, the second relationship between air temperature and surface pavement temperature and third is relationship between surface pavement temperature and mid-depth pavement temperature. But first, it beginning with the relationship between air temperature and mid-depth pavement temperature, because it is the most important temperature on the experiment.

A/ Relationship between air temperature and mid-depth pavement temperature.

The figures 32 and 33 shown below describe the correlations between air temperature and mid depth asphalt pavement temperature (40 mm at pavement) for the experiments, while the first figure study the relationship between temperature that measured on pavement surface type flexible, by Arduino thermometer. The second figure study the temperature that measured by FWD thermometer.

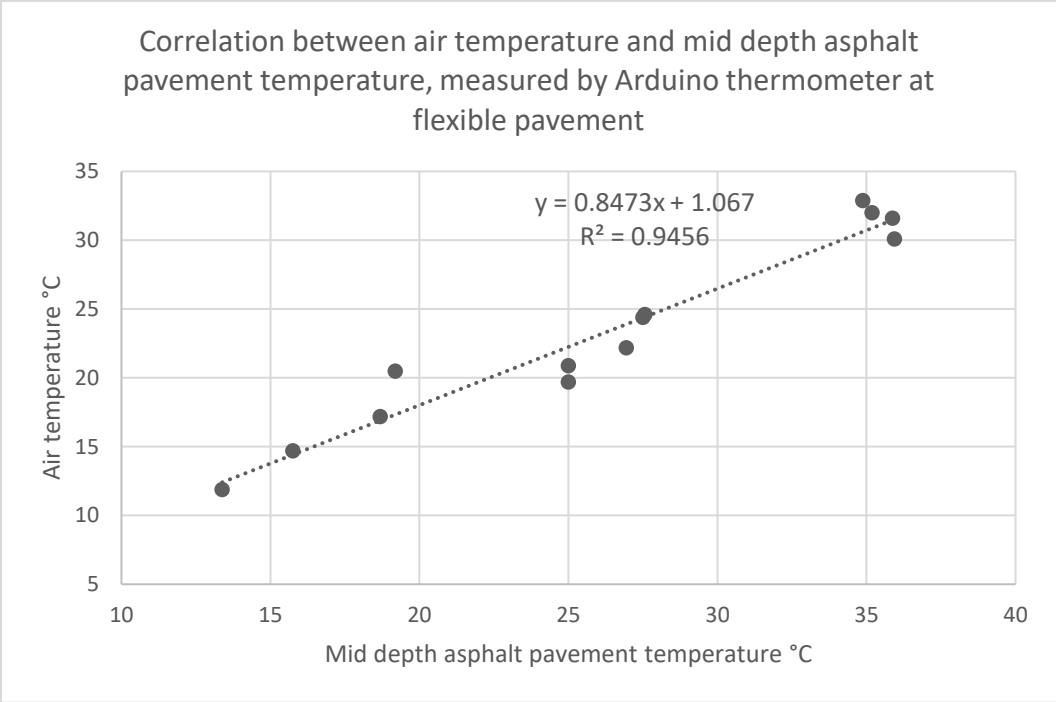


Figure 32 Correlation between air temperature and mid depth asphalt pavement temperature, measured by Arduino thermometer at flexible pavement

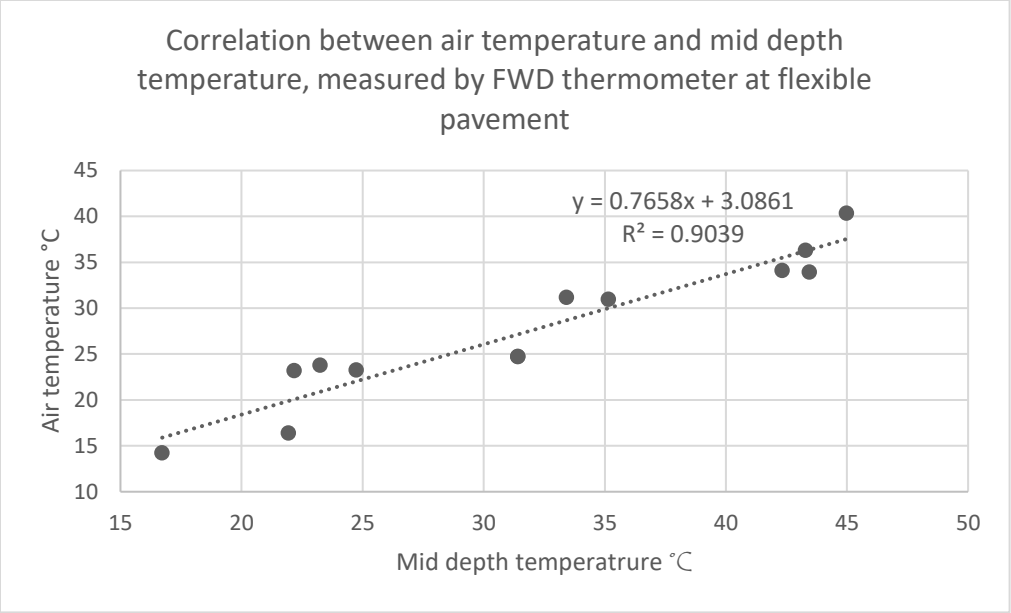


Figure 33 Correlation between air temperature and mid depth temperature, measured by FWD infrared thermometer at flexible pavement

Both figures show a high coefficient of determination R^2. The value were $R^2 = 0.9456$ & 0.9039 frequently. The surface temperature of the pavement depends on the air temperature significantly, but it is not the only factor affecting on the final result.

B/ Relationship between air temperature and surface pavement temperature (0.5 mm at pavement). Firstly, the relationship between temperature that measured by Arduino thermometer and secondly the relationship between temperature that measured by FWD infrared thermometer. Figure 34 shown correlation between air temperature and surface pavement temperature, measured by Arduino thermometer at flexible pavement, while figure 35 shown correlation between air temperature and surface temperature, measured by FWD infrared thermometer at flexible pavement.

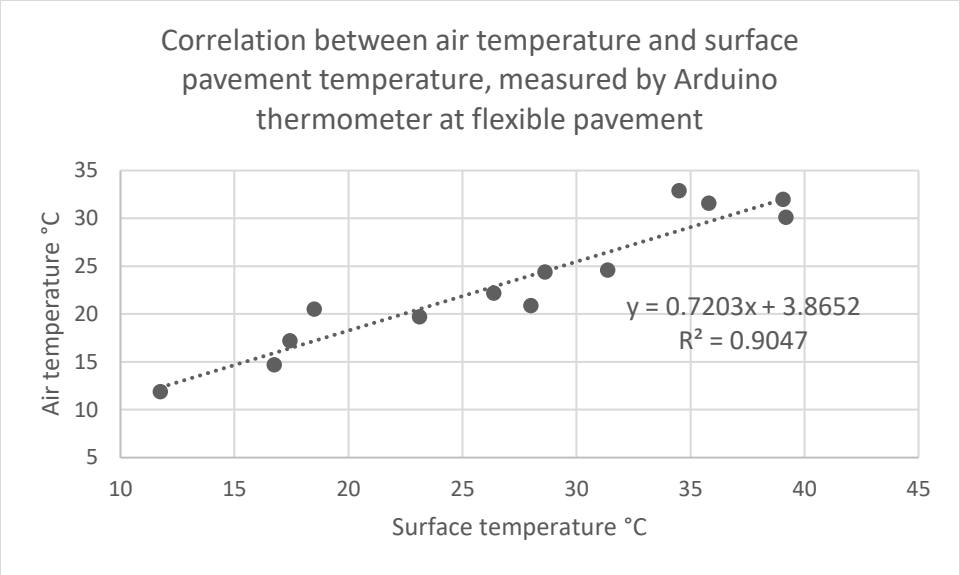


Figure 34 Correlation between air temperature and surface pavement temperature, measured by Arduino thermometer at flexible pavement

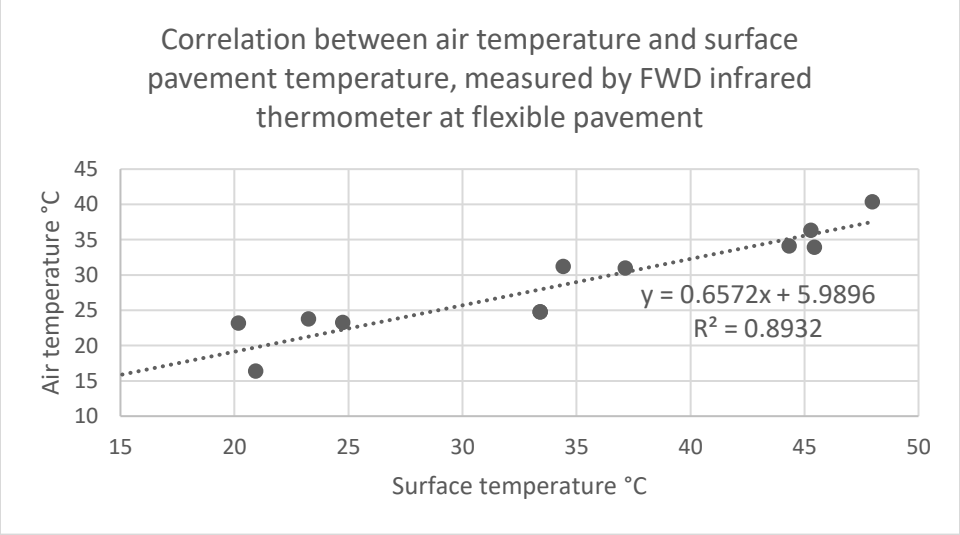


Figure 35 Correlation between air temperature and surface temperature, measured by FWD infrared thermometer at flexible pavement

As describe in first relationship above, high coefficient of determination was appeared on figures and from data that got from the experiments.

Another output happens on the temperature change in the pavement's structure. The temperature at the different layers of pavement changes (not just within a period long time like a month, year) but the changes happen on an individual day also, like shown above at figure (27). That means the

temperature at different layers on pavement change too, and temperature varies on asphalt layers at a different time of day.

C/ Relationship between surface pavement temperature and mid depth asphalt pavement temperature.

Another correlation was made between surface pavement temperature (0.5 mm at pavement) and mid depth asphalt pavement temperature (40 mm at pavement) on pavement type flexible, the first figure 36 below study the relationship of temperature that measured by Arduino thermometer. The second figure 37 study the relationship of temperature that calculated by FWD infrared thermometer.

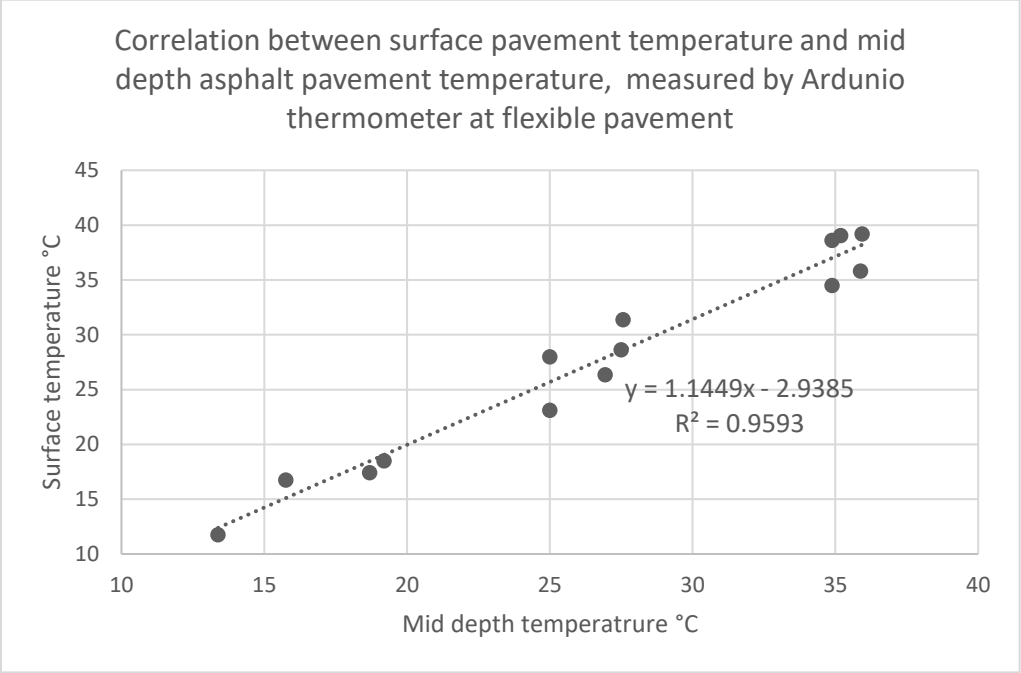


Figure 36 Correlation between surface pavement temperature and mid depth asphalt pavement temperature, measured by Arduino thermometer at flexible pavement

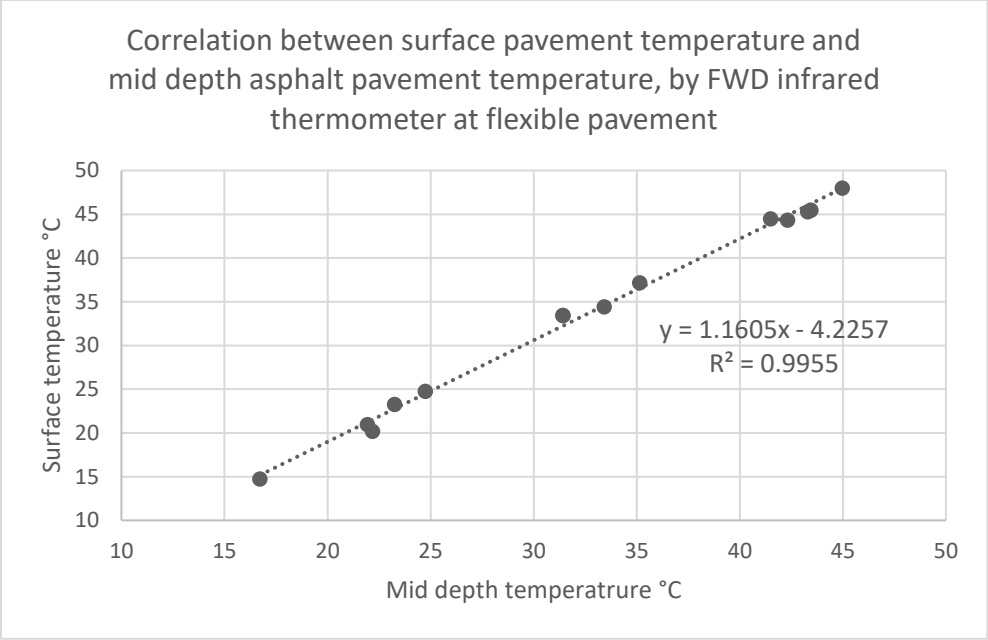


Figure 37 Correlation between surface pavement temperature and mid depth asphalt pavement temperature, by FWD infrared thermometer at flexible pavement

Both figures show a very high coefficient of determination R^2, but the FWD device shows the result of coefficient of determination R^2 approximately to 1 ($R^2 = 0.9955$) for different location that tested. this means, the correlation between surface pavement temperature and mid depth asphalt pavement temperature is harmonious according to FWD device.

Although the relationship between the temperatures obtained by an FWD device and by the Arduino thermometer was a high correlation. The temperatures were not completely similar, and this is due to the working mechanism and the hardware and software used in both devices. It means that every device uses its own working mechanism, and it differs from the device to other.

The researcher made the same steps for the location number two, which consist of pavement type semi-rigid. The figures and statistics calculations were made on semi-rigid pavement too. The results were appeared approximately same to location number one, type flexible pavement.

5.3 Temperature data relationship between Arduino thermometer and FWD device

The section below, study the relationship between the temperature measured by Arduino thermometer and temperature obtained by FWD thermometer. The data used in the study were the data uploaded from the experiment's period and the relationships between temperature measured by Arduino thermometer and temperature measured or calculated by FWD thermometer were studied in all layers that affecting on the experiment, i.e., the air temperature, the surface pavement temperature, and the mid-depth pavement temperature at time of experiments that written in detailed on (4.2.2 Conduct the experiment). Some of the data were loosed or precluded, because some of irregular data shown during execution of the experiments (like error on FWD thermometer calibration which showed same equal temperature on surface and mid-depth asphalt, rainy weather, on some time stopping Arduino thermometer through experiment).

For experiment's locations, which consist of pavement types flexible and semi-rigid, figure 38 shown the relationship between the temperature measured by Arduino thermometer and temperature calculated by FWD device at pavement's mid-depth layer on 40 mm depth from the pavement's surface. The behavior of the temperatures between the temperature measured by Arduino thermometer and FWD thermometer which appearing on figures had approximately the similar behavior shape by both thermometers, which mean there were approximately the same in terms of high and low, while the accuracy between data recorded were various ±5 ˚C.

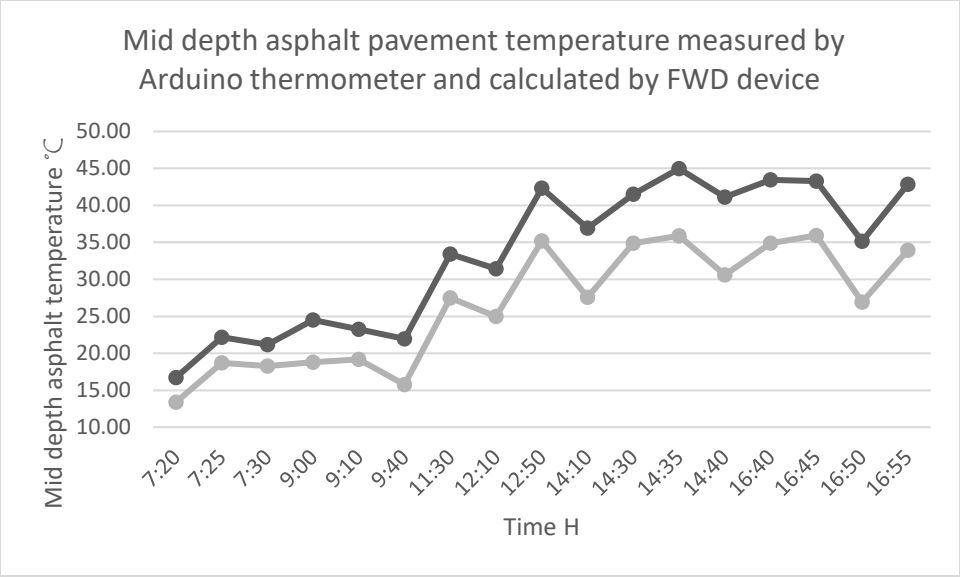


Figure 38 Relationship between mid depth asphalt pavement temperature measured by Arduino thermometer and calculated by FWD device for both types of pavement

A correlation was made between the temperature measured by Arduino thermometer and temperature calculated by FWD thermometer on pavement's mid-depth asphalt layer to find a coefficient of determination R^2. The figures below show these relationships, which had very high value coefficient $R^2 = 0.97$ record at both pavements. Figure 39 shown the correlation between mid-depth temperature measured by Arduino thermometer and mid depth asphalt pavement temperature calculated by FWD thermometer.

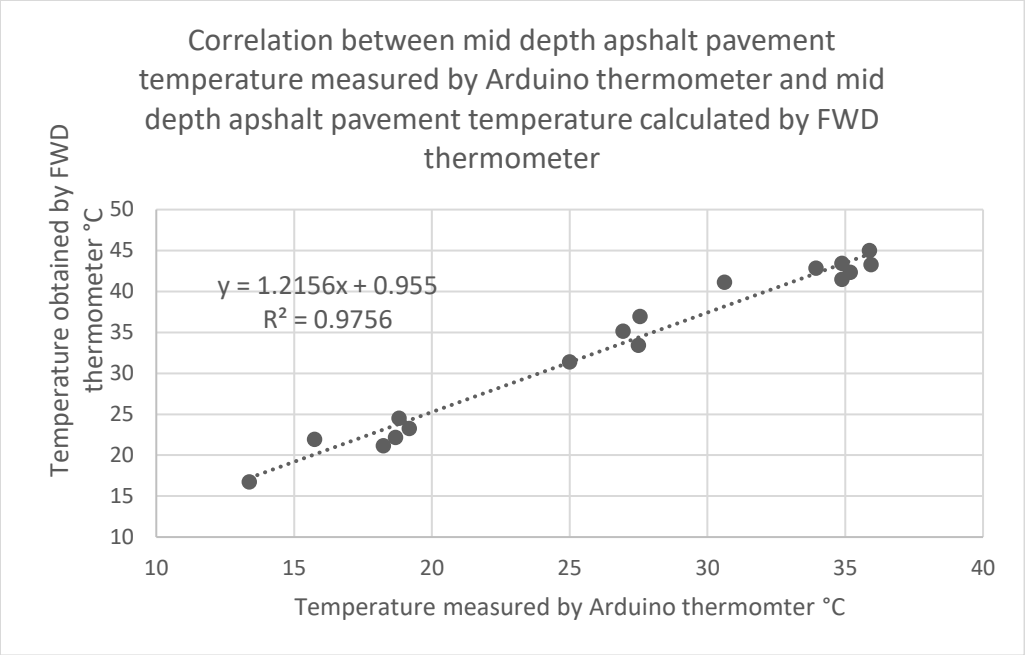


Figure 39 Correlation between mid-depth temperature measured by Arduino thermometer and mid depth asphalt pavement temperature calculated by FWD thermometer

Later other correlations were made for the air and for the surface pavement, the relationship for the temperature that measured by Arduino thermometer and temperature measured by FWD thermometer, all of them shows from the graphs made and data studied, it is clear to say they are approximately similar (in behavior) to the first relationship described (above) for the mid-depth pavement temperature. For example, the relationship for air temperature and surface pavement that measured by Arduino thermometer and by FWD device for flexible pavement record a coefficient of determination show $R^2 = 0.8672$ & $R^2 = 0.9265$ respectively.

The data and statistic method approved the strong relationship between the temperature result that got from Arduino thermometer and temperature result obtained by FWD device.

5.4 Relationship between change mid-depth pavement‘s temperature and deflections values at the pavement

The data was uploaded from the falling weight deflectometer device for deflections and temperatures for pavement types flexible and semi-rigid. For three testing days during the experiments period. Every day the tests were conducted at five different times during the day, which were early morning, morning, midday, afternoon and at the end of the day (More detail on 4.2.2 Measurement process). The tables below show the deflection values for pavements type flexible and semi-rigid on one day for each point of the test site (9 deflection points covering an area of 2 * 3 square meters). this data has been calculated for a constant load force of 50 kN as shown in the next section of this chapter.

Table 7 Average deflection and temperature value for each point, for flexible pavement on 29.04.2021

Average deflection for each point, for flexible pavement 30-04-2021, for force recalculated to 50kn														
Date & Time	Point number	Force kN	D1 µm	D2 µm	D3 µm	D4 µm	D5 µm	D6 µm	D7 µm	D8 µm	D9 µm	Air Temperature ˚C	Surface Temperature °C	Mid depth temperature °C
30-04-2021 07:20AM	1	50	181.17	97.81	71.33	57.97	44.79	38.53	33.50	27.43	23.16	13.80	15.70	17.70
	2	50	189.59	83.78	58.07	47.05	38.31	39.69	29.70	25.38	22.04	13.90	15.10	17.10
	3	50	92.41	55.02	43.99	38.91	33.59	29.90	26.66	23.79	20.87	14.10	15.20	17.20
	4	50	201.88	117.35	86.85	68.13	50.76	41.77	35.20	29.06	25.92	14.00	14.20	16.20
	5	50	151.29	80.09	63.09	52.98	43.88	40.45	34.33	28.00	23.95	14.20	14.50	16.50
	6	50	112.65	71.42	56.72	47.53	38.73	32.75	29.49	26.50	22.94	14.40	14.70	16.70
	7	50	258.94	153.37	106.47	75.03	48.16	38.79	33.56	29.00	25.50	14.60	14.50	16.50
	8	50	167.65	88.01	66.96	54.39	44.37	38.73	34.12	28.57	24.79	14.50	13.90	15.90
	9	50	126.64	75.66	59.33	49.78	41.01	35.74	31.06	26.79	23.70	14.80	14.70	16.70
30-04-2021 09:20AM	1	50	173.90	98.69	73.51	58.45	46.08	39.12	33.18	27.62	23.52	15.00	20.40	21.40
	2	50	177.52	81.51	56.55	46.37	38.09	33.90	30.62	25.67	21.95	15.50	21.50	22.50
	3	50	86.27	52.98	44.32	39.30	33.86	29.45	26.76	23.74	19.94	15.70	21.00	22.00
	4	50	210.22	122.87	91.29	70.66	50.95	41.80	34.79	29.14	25.49	16.10	19.70	20.70
	5	50	154.46	80.87	63.18	53.62	44.29	41.07	34.61	27.94	24.19	16.40	20.60	21.60
	6	50	110.09	70.96	56.58	47.16	38.32	32.14	29.29	25.65	22.50	16.80	21.70	22.70
	7	50	259.88	154.44	103.62	74.33	48.49	38.28	32.82	28.01	24.02	17.10	20.90	21.90
	8	50	165.41	88.34	65.98	52.07	44.30	38.70	35.01	28.57	24.89	17.30	21.20	22.20
	9	50	126.16	75.03	58.17	49.09	40.61	35.00	30.98	26.53	23.78	17.70	21.40	22.40
30-04-2021 12:10Pm	1	50	172.28	96.83	71.66	58.61	46.68	40.63	33.51	27.75	24.16	23.90	32.20	30.20
	2	50	162.77	75.62	55.07	45.73	38.86	35.27	30.49	25.71	22.71	23.90	30.10	28.10
	3	50	88.87	50.78	42.74	38.99	34.47	30.70	27.60	24.11	21.32	23.90	33.10	31.10
	4	50	217.91	117.69	86.85	69.08	52.26	42.96	35.83	30.71	27.03	24.40	35.20	33.20
	5	50	151.40	76.99	62.50	55.03	45.76	39.56	34.28	29.14	25.25	24.80	34.10	32.10
	6	50	100.89	62.37	49.44	44.07	38.34	34.69	30.08	26.43	23.14	25.50	35.10	33.10
	7	50	274.92	155.75	103.49	70.94	49.01	41.71	34.51	28.59	26.50	25.20	34.40	32.40
	8	50	170.97	84.92	64.63	54.78	47.08	40.31	35.79	30.18	25.72	25.70	32.40	30.40
	9	50	127.92	72.69	56.26	49.08	41.99	37.00	32.78	28.94	25.24	25.50	34.10	32.10
30-04-2021 14:40Pm	1	50	182.66	94.44	70.65	59.89	48.62	41.72	35.32	29.84	25.42	29.60	39.40	36.40
	2	50	154.51	68.54	52.82	45.93	40.23	36.02	31.16	27.43	23.25	29.90	39.00	36.00
	3	50	92.69	52.97	42.76	39.48	35.24	32.33	28.39	25.65	22.16	30.00	40.10	37.10
	4	50	220.25	113.98	84.27	68.27	54.01	44.69	37.80	32.34	27.79	30.80	41.30	38.30
	5	50	151.86	77.26	64.31	56.29	47.29	40.75	34.75	29.82	26.33	31.10	41.70	38.70
	6	50	101.12	60.12	50.22	45.15	39.72	35.32	31.05	27.46	24.00	31.40	41.10	38.10
	7	50	299.17	143.89	90.60	65.70	50.79	43.33	36.74	30.98	27.39	31.50	39.40	36.40
	8	50	177.02	84.01	63.91	55.99	48.52	41.70	35.49	30.56	26.58	31.70	39.00	36.00
	9	50	126.23	69.21	54.90	49.03	42.67	37.69	33.79	28.48	25.94	31.10	38.50	35.50
30-04-2021 16:40Pm	1	50	199.51	89.88	66.73	57.19	47.99	40.22	34.17	28.70	24.92	29.30	37.90	35.90
	2	50	158.37	65.57	48.89	43.82	39.58	34.60	30.39	26.54	23.37	30.20	37.60	35.60
	3	50	93.19	53.84	44.10	41.00	36.38	32.98	29.11	25.72	22.66	30.70	37.40	35.40
	4	50	225.40	111.04	82.58	68.10	53.65	44.68	37.98	31.55	27.26	31.00	37.50	35.50
	5	50	147.90	78.83	65.12	57.58	47.70	41.24	35.39	29.70	26.34	31.30	37.60	35.60
	6	50	99.51	60.86	50.77	46.20	40.05	35.26	31.36	27.41	24.04	31.50	36.70	34.70
	7	50	292.62	153.13	96.49	70.13	52.28	44.09	36.74	32.27	28.54	31.50	37.10	35.10
	8	50	185.73	83.86	66.10	57.85	49.06	44.33	37.19	31.43	26.76	31.60	36.60	34.60
	9	50	144.47	74.47	59.46	52.23	45.06	42.35	34.67	30.84	26.93	31.60	35.90	33.90

Table 8 Average deflection and temperature value for each point, for semi-rigid pavement on 29.04.2021

Average deflection for each point, for semi rigid pavement 29-04-2021, for force recalculated to 50kn														
Date & Time	Point number	Force kN	D1 µm	D2 µm	D3 µm	D4 µm	D5 µm	D6 µm	D7 µm	D8 µm	D9 µm	Air Temperature ˚c	Surface Temperature °C	Mid depth temperature °C
30-04-2021 07:20AM	1	50	377.73	310.13	272.35	235.45	169.70	112.04	82.30	59.32	50.89	14.00	14.40	16.40
	2	50	356.86	321.44	270.29	221.99	157.40	109.78	75.17	104.60	59.95	14.10	14.30	16.30
	3	50	311.68	257.01	227.33	201.31	146.69	97.10	59.18	60.95	54.56	14.20	13.80	15.80
	4	50	334.71	266.72	212.13	208.52	156.58	116.35	85.73	65.06	51.40	14.30	14.60	16.60
	5	50	465.76	336.86	278.97	231.36	155.95	102.99	70.52	68.42	66.08	14.30	14.20	16.20
	6	50	317.57	290.94	246.16	239.87	183.12	111.48	80.80	58.94	47.68	14.50	14.10	16.10
	7	50	272.67	236.34	210.89	189.53	145.52	106.02	77.57	54.39	44.29	15.10	14.80	16.80
	8	50	419.20	306.89	261.20	214.91	144.31	90.33	75.59	88.65	106.87	15.10	14.30	16.30
	9	50	260.15	230.15	214.51	199.39	172.94	90.76	71.50	55.41	48.51	15.00	14.50	16.50
30-04-2021 09:20AM	1	50	383.60	316.90	275.63	234.03	172.25	113.92	76.89	59.81	50.88	18.50	23.40	23.40
	2	50	352.85	313.16	267.95	225.42	165.77	118.10	79.45	62.75	57.77	18.50	19.40	19.40
	3	50	340.97	271.28	238.69	204.98	146.44	94.27	75.21	64.09	56.68	18.80	18.50	18.50
	4	50	334.33	263.89	235.31	204.82	150.86	108.81	84.02	63.02	51.90	18.80	23.50	22.50
	5	50	439.53	320.22	265.87	222.06	151.77	103.51	73.86	66.27	62.18	19.10	20.90	19.90
	6	50	315.71	289.14	262.41	236.00	176.02	109.66	80.71	60.79	49.35	19.10	21.20	20.20
	7	50	273.77	237.38	211.30	188.50	144.35	102.30	75.69	56.28	44.15	19.10	23.90	22.90
	8	50	398.16	297.86	253.29	212.30	144.69	93.08	110.61	72.88	82.01	19.00	21.90	20.90
	9	50	270.45	232.51	215.02	195.27	160.36	95.58	87.21	60.46	52.39	18.90	20.90	19.90
30-04-2021 12:10Pm	1	50	410.81	340.39	296.98	256.66	183.61	119.04	81.60	64.65	51.99	23.70	32.40	30.40
	2	50	351.08	304.49	261.50	220.13	160.71	117.08	80.38	60.18	52.72	23.40	31.60	29.60
	3	50	280.54	248.69	220.27	193.36	137.85	94.95	72.45	61.04	55.80	23.50	28.70	26.70
	4	50	339.30	270.41	243.06	211.52	154.10	111.47	83.76	62.87	51.01	23.50	33.50	31.50
	5	50	409.07	301.57	255.58	217.30	155.27	110.19	80.20	62.07	59.27	23.60	31.80	29.80
	6	50	306.33	277.85	245.01	220.71	170.35	119.98	88.43	63.67	51.60	23.60	31.00	29.00
	7	50	285.52	254.28	224.98	201.90	153.57	113.26	84.47	61.23	44.01	23.60	33.30	31.30
	8	50	394.34	302.37	262.04	221.99	158.32	107.75	72.43	59.22	61.25	23.90	33.00	31.00
	9	50	297.02	248.13	220.69	197.09	151.19	109.62	78.59	61.73	52.77	24.00	31.40	29.40
30-04-2021 14:40Pm	1	50	401.39	328.73	291.15	255.97	190.69	133.53	88.35	66.89	54.50	29.00	37.30	34.30
	2	50	366.45	315.88	268.62	229.99	172.61	124.88	86.08	63.53	53.15	29.50	36.50	33.50
	3	50	294.97	250.37	224.76	193.08	137.47	99.19	75.34	61.92	54.81	29.60	32.30	29.30
	4	50	338.39	279.76	250.08	223.18	166.25	123.50	91.70	66.86	53.69	29.80	36.80	33.80
	5	50	407.79	307.80	266.31	227.98	164.33	120.51	87.30	65.37	56.59	30.00	36.00	33.00
	6	50	342.13	292.13	257.97	220.90	161.11	117.92	88.42	68.30	55.17	30.20	35.70	32.70
	7	50	308.38	277.50	251.26	223.81	174.24	129.97	92.91	66.95	46.90	29.60	36.90	33.90
	8	50	420.77	329.77	283.13	244.64	175.95	123.16	78.80	57.31	57.82	29.80	36.00	33.00
	9	50	300.28	260.14	235.49	204.00	150.49	112.08	79.45	62.86	52.27	30.20	35.50	32.50
30-04-2021 16:50Pm	1	50	367.36	314.59	264.96	240.82	174.69	124.84	84.05	64.89	52.47	29.00	30.60	29.60
	2	50	334.35	298.89	256.58	217.67	161.04	115.17	79.77	60.53	52.13	28.90	25.10	24.10
	3	50	264.25	226.18	205.28	181.12	135.65	96.31	68.56	59.45	53.41	28.60	22.70	21.70
	4	50	335.74	274.29	251.06	222.78	167.26	122.91	92.09	66.32	50.28	28.30	28.80	27.80
	5	50	436.91	322.61	275.86	232.92	166.91	117.64	80.71	65.02	59.90	28.20	26.10	25.10
	6	50	292.00	250.66	228.56	206.92	163.17	121.06	87.03	66.05	52.78	28.20	26.30	25.30
	7	50	287.97	254.44	231.38	208.47	162.26	123.63	90.83	64.72	46.89	27.50	28.90	27.90
	8	50	401.10	303.45	264.33	223.95	158.71	110.58	74.57	60.44	61.34	27.50	25.80	24.80
	9	50	295.26	244.54	215.52	194.20	146.80	106.88	81.29	62.58	54.13	27.70	25.00	24.00

The first step for analyzing the deflections value that got from testing is to puts these deflections to the same loading force. the load force (in experiments) varied in the range of ±4 kN (from applying load) through experiments, which applied 50 kN. Therefore, the corrections of measured deflection

were needful. The deflection that was uploaded from all geophones was recalculated to an equivalent load force of 50 kN. The data that used in figure 7 were for 3 days, five testing measurements were made through one day. The deflections represented the average deflections for all 9 points that testing in the experiment. The table below shown the correction value of deflections according to load force 50 kN.

Table 9 New calculation deflection for force=50 kN.

		Flexible pavement correction					semi rigid pavement correction				
Date	Time	Mid depth temperature calculated by FWD infrared thermometer °C	Force KN	Deflection value under load center	New force KN	New deflection µm	Mid depth temperature calculate	Force KN	Deflection value under load center	New force KN	New deflection µm
30-Apr	7:20	16.72	50.13	164.97	50.00	164.53	16.33	49.37	339.96	50.00	344.32
30-Apr	9:40	21.93	50.41	163.93	50.00	162.58	20.84	49.26	340.30	50.00	345.42
30-Apr	12:10	31.41	50.45	158.22	50.00	158.52	21.17	48.48	331.03	50.00	341.44
30-Apr	14:10	31.41	50.45	158.16	50.00	158.40	24.28	47.72	337.11	50.00	353.24
30-Apr	16:50	35.14	49.32	146.66	50.00	149.43	24.51	47.67	319.26	50.00	334.88
11-May	7:30	22.18	49.91	145.75	50.00	148.58	25.59	48.17	339.96	50.00	352.85
11-May	9:00	23.24	49.92	164.34	50.00	162.88	29.86	47.88	339.87	50.00	354.95
11-May	12:40	42.32	48.64	150.18	50.00	150.75	33.59	46.57	330.05	50.00	354.33
11-May	14:40	41.49	48.56	164.34	50.00	162.88	32.89	46.48	327.93	50.00	352.76
11-May	16:50	43.44	48.25	169.16	50.00	171.51	34.79	46.08	331.11	50.00	359.25
29-Jun	9:00	27.06	49.81	166.78	50.00	171.45	41.11	47.48	320.65	50.00	337.64
29-Jun	11:30	24.74	49.05	169.10	50.00	174.13	38.17	47.61	325.86	50.00	342.25
29-Jun	14:30	33.42	47.44	161.36	50.00	170.05	41.16	45.99	317.52	50.00	345.23
29-Jun	16:50	43.29	48.08	172.21	50.00	178.47	42.84	45.82	324.00	50.00	353.56

By using FWD thermometer which attached with the device, three values of temperature were obtained at the experiments, which were air temperature, surface pavement temperature and mid-depth pavement temperature. Many temperature models were using to study the most effecting temperature on deflections values. All temperatures models shown (approximately) similar behavior. Finally, the mid depth asphalt pavement temperature was used on the figures.

A/ Deflection behaviors on two types of pavements.

The temperature of asphalt layers influences on their stiffness (higher temperature leads to lower stiffness), then values of deflections. In other hands mean higher temperature leads to higher deflections. On testing area many measurements of deflections were made at various temperatures.

The result agreed with the theoretical theory. when temperature weather at ambient increasing, the deflections in asphalt were increasing.

The figure 40 below shown the relationship between the deflection's values (in two type of pavement that tested in the experiments) which occurred in asphalt layer depended on the temperature. The temperature that used from FWD thermometer in figure was calculated at mid-depth pavement temperature (40 mm at pavement) as described above.

The deflection that used were calculated exactly under load center at both types of pavement. while the top line explains the deflection behavior at semi-rigid pavement, the bottom line explains the deflection on flexible pavement. Both pavements show the same deflection's behavior which were increasing by increasing the temperature.

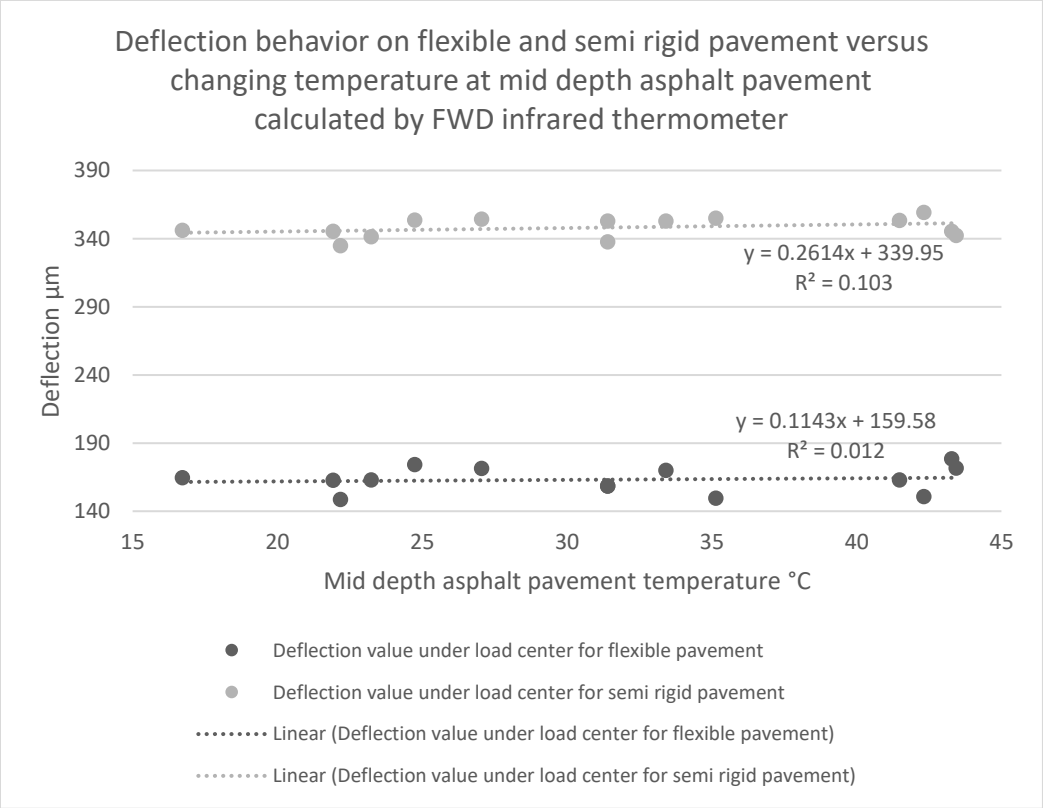


Figure 40 Deflection behavior on flexible and semi-rigid pavement versus changing temperature at mid depth asphalt pavement calculated by FWD thermometer

The figure 41 shown study the deflections occurred in pavements type flexible and semi-rigid, the temperature used in this figure was mid depth asphalt pavement temperature (40 mm at pavement) measured by Arduino thermometer. The deflection behavior versus temperature measured by Arduino thermometer were almost like the deflection behavior versus temperature calculated by FWD thermometer, the meaning of that is the deflection of the pavements (in both types) increasing with higher temperature.

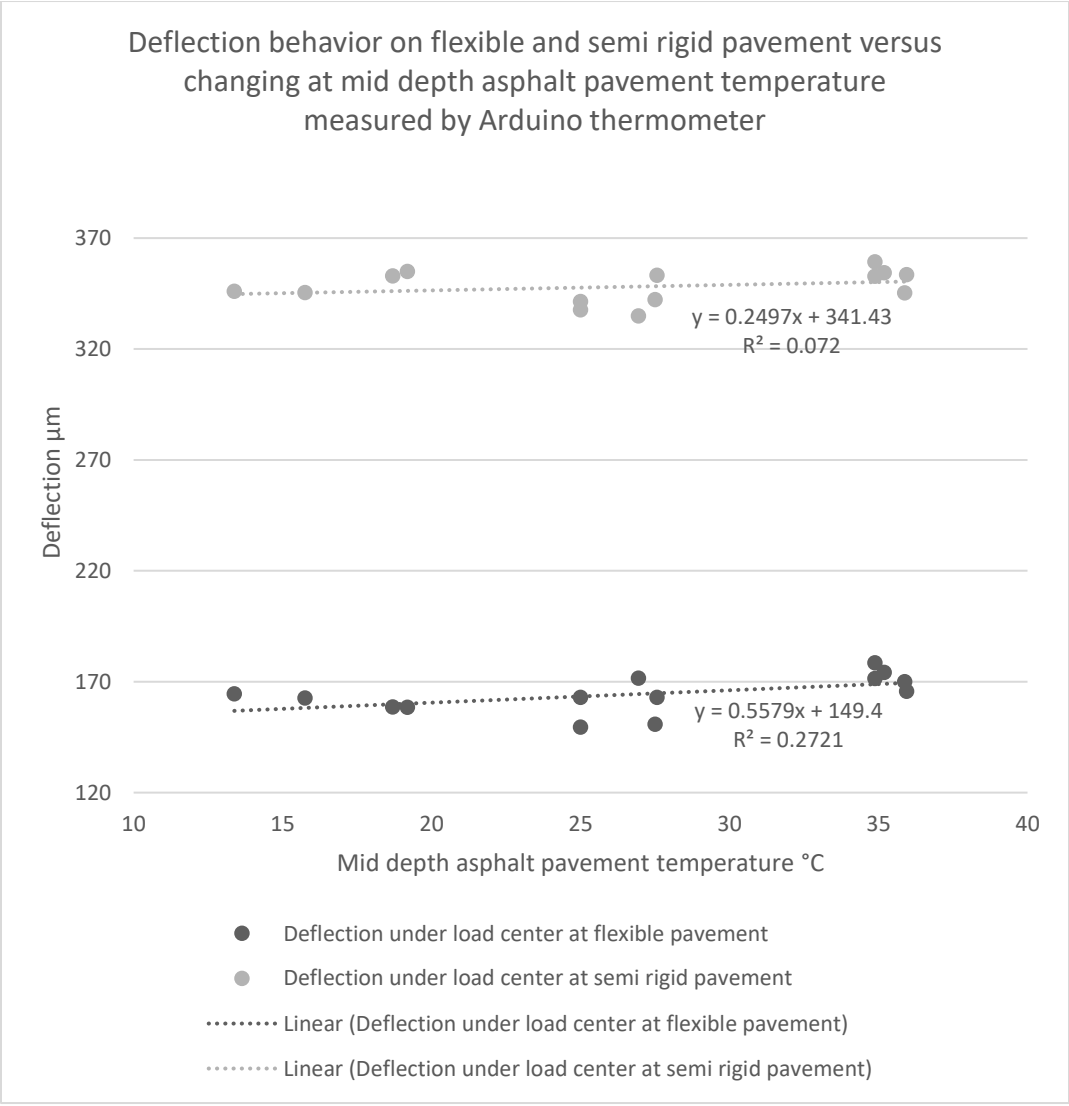


Figure 41 Relationship between deflection and temperature on flexible and semi-rigid pavement

The researcher studies the relationship between the air temperature that was measured during the experiment and the value of the deflection on both test sites. Although the deflection behavior was like what was found in the first case (mid-depth pavement temperature). Means that by increasing the air temperature the deflection value increased in the pavement. Also, the deflection behavior was clearer than in the first case. The impact of the pavement surface temperature was also studied and compared to the value of deflection. The result appeared like what was found in the first and second cases, which is the increase in temperature leads to a rise in the value of deflection and vice versa.

B/ Deviation ratio according to change temperatures on two types of pavements.

The table 10 below shows the values of deviation of the pavement deflection during changing temperatures, on two types of pavement (flexible and semi-rigid) that were tested. The deviation that calculated was for the average deflections that obtained by FWD device for testing time, on the test site with an area of 2 * 3 square meters as mentioned in part (More detail at 4.2 Experiment Design and workflow). For three testing days, there were 5 measuring per day. Overall, there were 15 tests (except one measure loosed under nonstandard condition for made FWD test). On every test's time, 9 points were measured, 10 drops were made on every point. The total deflections data were 1350, which were calculated to base force load equal to 50 kn. The deviation was calculated according average deflection for one measuring time (average of (nine points multiply by 10 drops)). The temperature on table were obtained by two methods (first method was by FWD thermometer and second method was by Arduino thermometer).

Table 10 Average of deviation pavement deflection according to temperature changing that obtained by FWD thermometer and Arduino thermometer. For pavements type flexible and semi-rigid.

		Devaition of flexible pavement deflection			
Date	**Time**	**Force KN**	**Mid depth temperature calculated by FWD infrared thermometer °C**	**Mid depth temperature calculated by Arduino thermometer °C**	**Deviation of deflection µm**
30-Apr	7:20	50.00	16.72	13.38	48.06
30-Apr	9:40	50.00	21.93	15.75	49.60
30-Apr	12:10	50.00	31.41	25.00	54.28
30-Apr	14:10	50.00	31.41	27.56	60.23
30-Apr	16:50	50.00	35.14	26.94	66.16
11-May	7:30	50.00	22.18	18.69	47.85
11-May	9:00	50.00	23.24	19.19	49.94
11-May	12:40	50.00	42.32	35.19	58.08
11-May	14:40	50.00	41.49	34.88	60.67
11-May	16:50	50.00	43.44	34.88	61.33
29-Jun	9:00	50.00	24.74	25.00	49.36
29-Jun	11:30	50.00	33.42	27.50	51.03
29-Jun	14:30	50.00	44.98	35.88	55.13
29-Jun	16:50	50.00	43.29	35.94	59.39

		Devaition of semi rigid pavement deflection			
Date	**Time**	**Force KN**	**Mid depth temperature calculated by FWD infrared thermometer °C**	**Mid depth temperature calculated by Arduino thermometer °C**	**Deviation of deflection µm**
30-Apr	7:20	50.000	16.33	13.06	63.55
30-Apr	9:40	50.000	20.84	13.19	52.99
30-Apr	12:10	50.000	29.86	15.75	51.50
30-Apr	14:10	50.000	32.89	18.19	46.25
30-Apr	16:50	50.000	25.59	18.37	54.64
11-May	7:30	50.000	21.17	18.31	60.16
11-May	9:00	50.000	24.51	19.06	59.12
11-May	14:40	50.000	41.16	29.62	54.34
11-May	12:40	50.000	41.11	23.31	63.60
11-May	16:50	50.000	33.59	32.63	64.19
29-Jun	11:30	50.000	24.28	23.25	52.77
29-Jun	9:00	50.000	34.79	27.50	48.84
29-Jun	14:30	50.000	38.17	34.00	62.31
29-Jun	16:50	50.000	42.84	35.94	61.61

The figure 42 and 43 show the average deviation of flexible pavement deflections and semi-rigid pavement deflections respectively, for mid depth asphalt pavement temperature that obtained by FWD thermometer . The deviations data classified according to testing time. Every point represents the average deflection for 9 points multiply by 10 drops for each time (7:00, 9:00, 12:00, 14:00, 17:00). The blue points represent the first experiment day (30.04.2021), the green points represent second experiment day (11.05.2021) and the yellow points represent the third experiment day (29.06.2021).

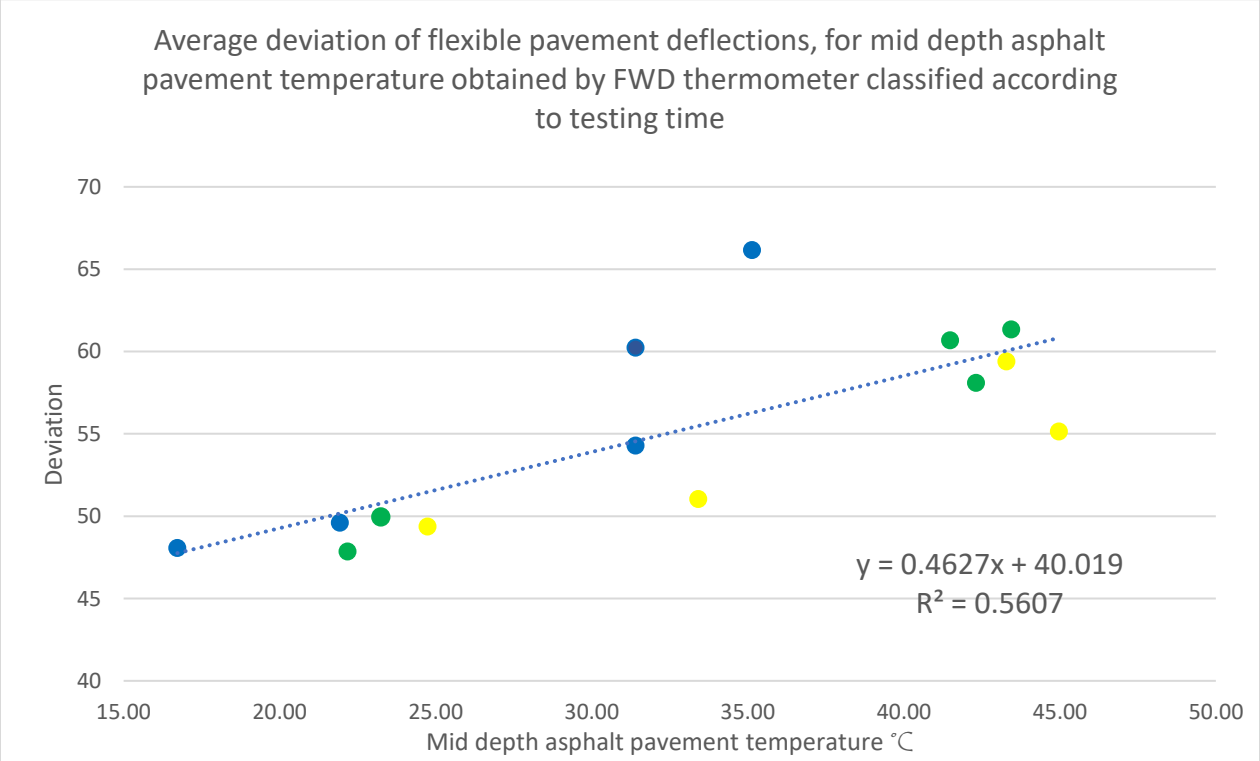


Figure 42 Average deviation of flexible pavement deflections, for mid depth asphalt pavement temperature obtained by FWD thermometer classified according to testing time, the blue points represent first testing day, green points represent second testing day & yellow points represents third testing day.

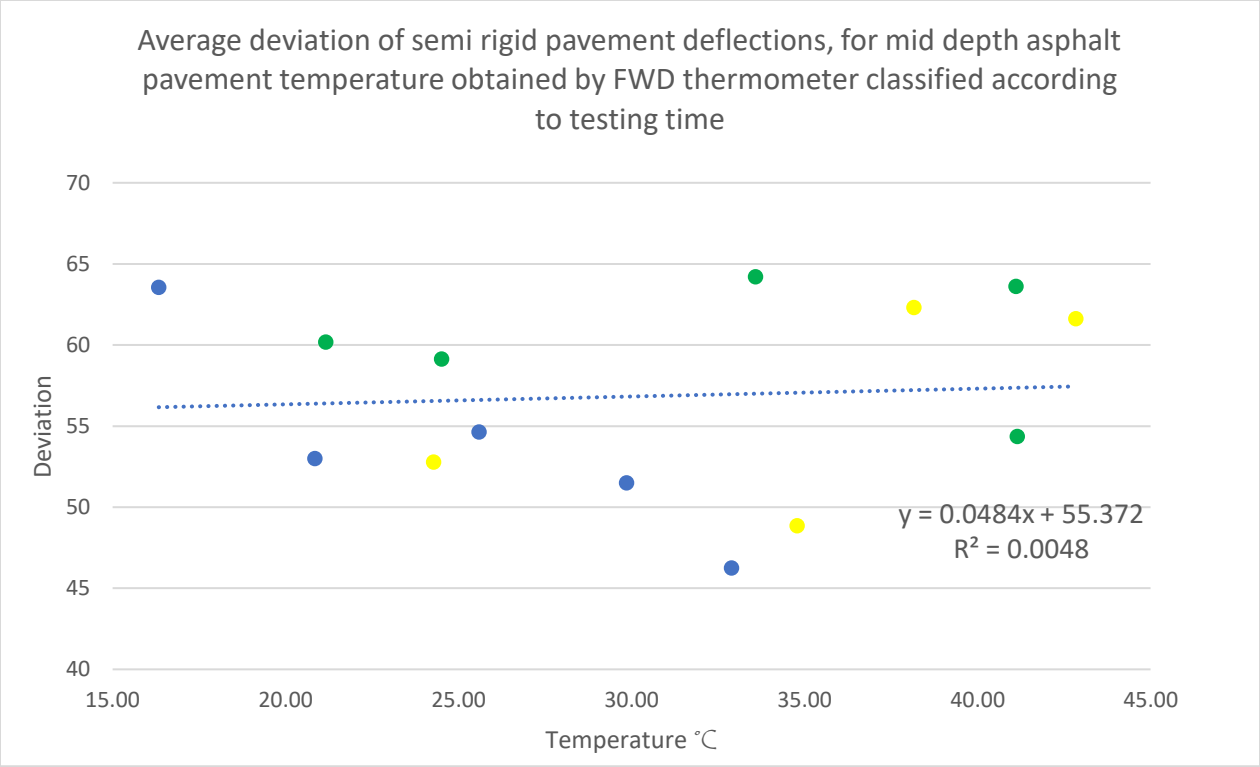


Figure 43 Average deviation of semi-rigid pavement deflections, for mid depth asphalt pavement temperature obtained by FWD thermometer classified according to testing time, the blue points represent first testing day, green points represent second testing day & yellow points represents third testing day.

The deviation of pavement deflections for both pavements (type flexible and semi-rigid) were in general increase with the mid depth asphalt temperature increased. The coefficient of determination was $R^2 = 0.5607$ & 0.0048 respectively for pavements type flexible and semi-rigid. It's noticed the coefficient of determination on flexible pavement record higher that coefficient of determination on semi-rigid pavement. For this experiment, mean the flexible pavement is more effected by temperature that the semi-rigid pavement.

The second case was studied is the relationship between the average deviation of flexible pavement deflections and semi-rigid pavement deflections, but this time is for mid depth asphalt pavement temperature that obtained by Arduino thermometer. A similar result was got like first case (relationship) and the deviation of pavement deflection was increased when the temperature increased. The similar result got because of strong correlation between the temperature that

obtained from both thermometer (FWD thermometer and Arduino thermometer) as explained in detail on (5.3 Correlation's temperature between Arduino thermometer and FWD device).

5.5 Summary of the temperature effect on pavement and discussion

In this part of the study, the facts that found it from the survey, data and analysis could shortly explain by below:

1. The behaviors of the temperatures in both sites shown are same behavior, while the temperature behavior in the layers of asphalt are variable, as the relationship between the air temperature and the temperature in the firsts layers of asphalt is a positive relationship, meaning that the increase in the air temperature leads to an increase in the temperature in the first layers of the pavement (usually within a few minutes later), while the change in the temperature of the last layer of the pavement (210mm and 420mm under the surface pavement) will not be affected directly. The changing occurs through hours. From figure 44 shown the relationship between the temperature in first layer and last layer (surface layer and subgrade layer) on this study and figure 44 shown the temperature behavior on pavement's layers.

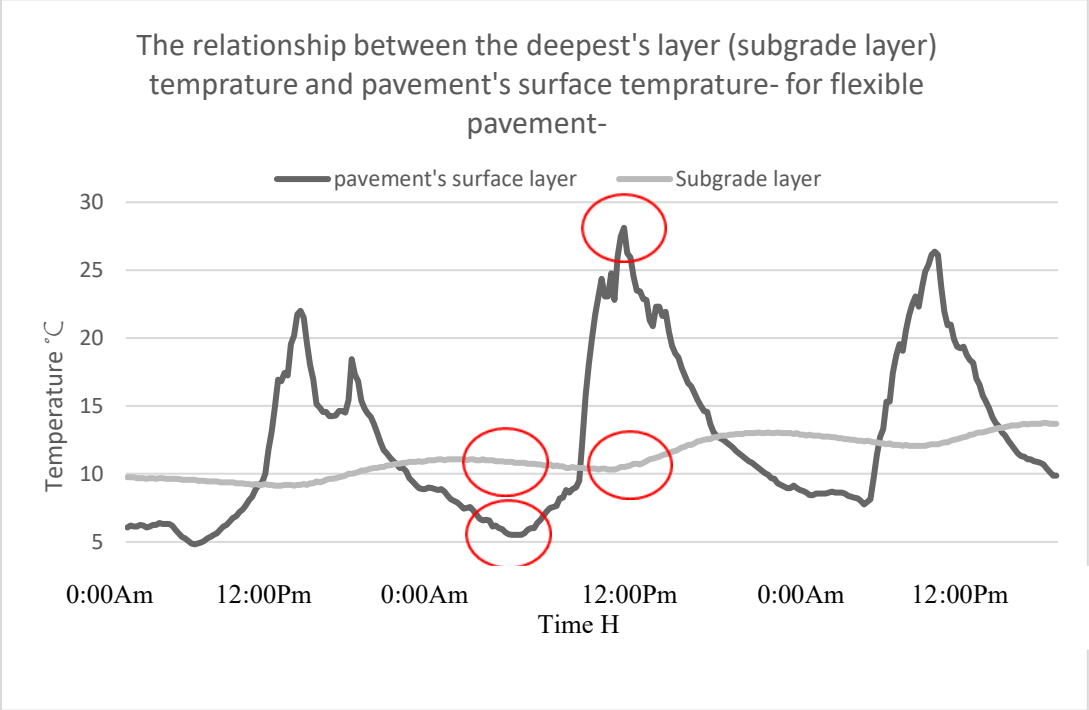


Figure 44 The relationship between the temperature in first and last layer in this study

2. From figures and data uploaded, the minimum humidity ratio in weather happens when the temperature reach at maximum, which is often happen in mid of the day and vice versa. Figure 45 shown the relationships between the temperature and humidity in weather.

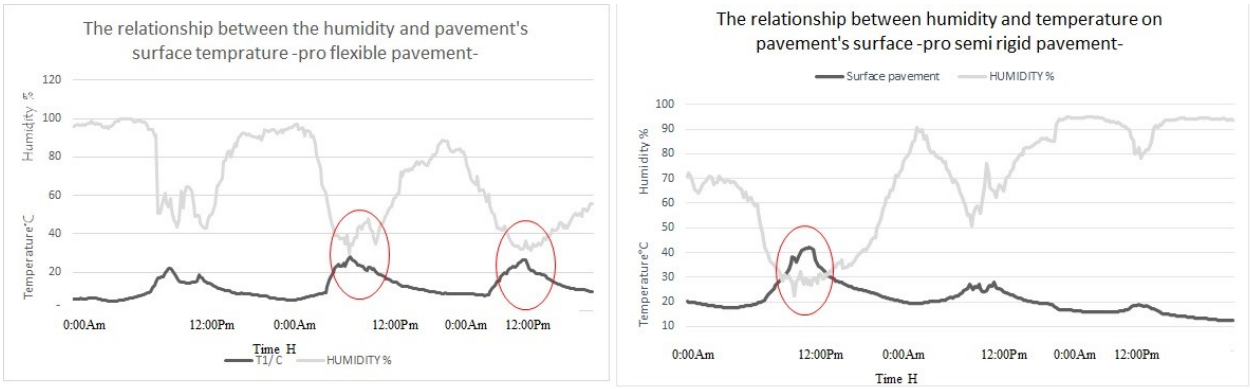


Figure 45 Relationships between the temperature and humidity in weather , for pavements type flexible and semi-rigid

While the figure 46 study the humidity and air temperature measured by Arduino thermometer on flexible pavement, exactly for tests days 30-04, 11-05, 29-06-2021 at actual experiments time from 07:00 until 17:00 . As notice from the figure below the FWD deflection tests made under different value of humidity. These differences on humidity effected on the final deflections that recorded on the pavements.

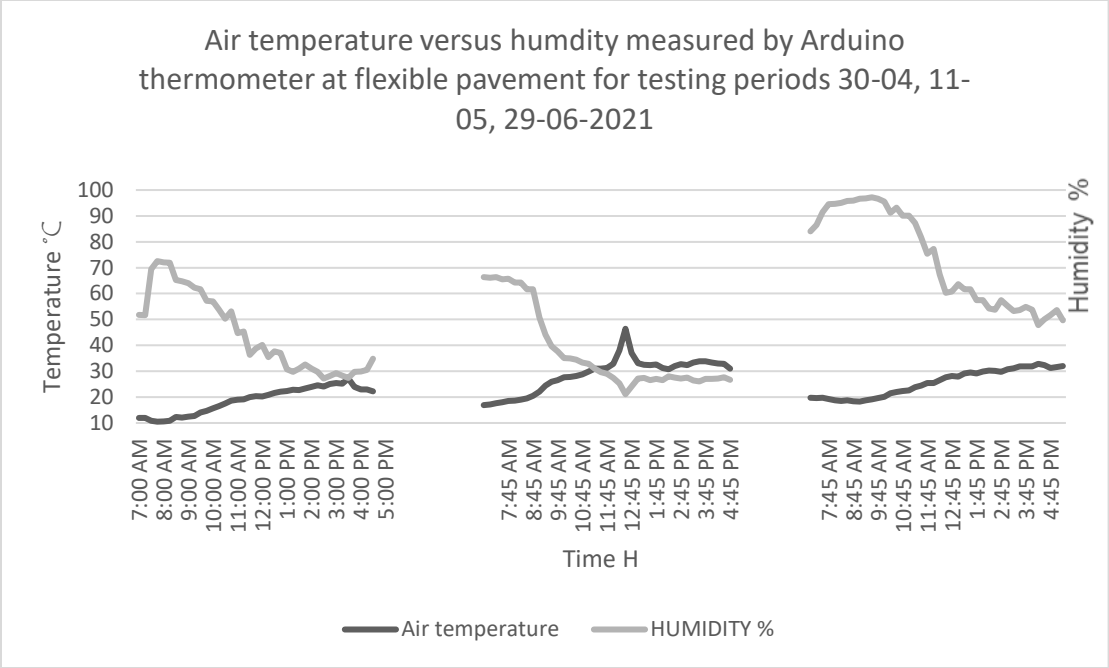


Figure 46 Air temperature versus humidity measured by Arduino thermometer at flexible pavement for testing periods 30-04, 11-05, 29-06-2021

As describe above the differences on weather humidity will led to change the moisture of pavements (close time range effect on top layers and in deeping effect at long time range), the pavements moisture's value is considered one of the reasons that been affected on pavement bearing capacity.

3. The correlations between different layers of the experiment are studied, i.e., the correlation between air temperature and mid-depth pavement temperature, the correlation between air temperature and surface pavement temperature and correlation between surface pavement temperature and mid-depth pavement temperature. Generally, a high correlation was appeared, for those three correlations. While the greatest temperature correlation appeared between surface pavement temperature and mid-depth pavement temperature, the coefficient of determination that measured the actual temperature on test side by Arduino thermometer was very high ($R^2 = 0.9505$) and coefficient of determination that calculated by FWD infrared thermometer was approaching to 1 ($R^2 = 0.9955$).
4. On all layers that affecting on the pavement deflection value, i.e., air temperature, surface temperature and mid depth asphalt pavement temperature, the relationship between obtained temperatures by an FWD thermometer and by an Arduino thermometer was studied in both pavement types flexible and semi-rigid. The correlation value was very high on both locations that were tested, and the behavior of the temperatures appearing on figures was approximately the same in terms of high and low.

5. The correlation between temperature that obtained by FWD thermometer and, the deflection on the pavements types flexible and semi-rigid were studied, the experiments agreed with the lasts research. The deflection and temperature data showed positive relationship, that the increase in mid-depth pavement temperature led to an increase in deflection. Also, the thesis continuo to study the effecting of air temperature and surface pavement temperature versus deflection, the same results was got.
6. Also, the correlation between temperature measured by Arduino thermometer and, the deflection on the pavements types flexible and semi-rigid were studied, the experiments show the same results as on first relationship, which was any increases in temperature will lead to increase the deflection on the pavement. The similar on result between first relationship and second relationship because of the strong correlation that got between FWD thermometer and Arduino thermometer.
7. The average deviation of flexible pavement deflections and semi-rigid pavement deflections, for mid depth asphalt pavement temperature that obtained by FWD thermometer were studied. on both pavements (type flexible and semi-rigid), a positive correlation was shown. That's mean the increasing temperature led to increase the deviations of the pavement. Where the lowest deviation was record on average temperature 15 ˚C on pavement type flexible.
8. Also, from figures notice the coefficient of determination on flexible pavement record higher that coefficient of determination on semi-rigid pavement. That mean is the flexible pavement more effected by temperature that the semi-rigid pavement.

6 Conclusion

6.1 Overall conclusion

Paved roads are covered most roads in the Czech Republic. The components of the road surface differed from one road to another. For example, the asphalt layer of the country's roads covered about 95%. Therefore, the operational life must be studied and the methods of testing and diagnosis for these roads should be constantly improving. This study presents the effected of temperature change on pavement performance. The study also dealt with a brief summary of the design of the asphalt mixture and possible causes of road failure, as well as the types of testing and diagnosis, which were divided into three main types (visual condition surveys, non-destructive testing, and destructive testing).

The thesis also studies in detail one of the types of non-destructive tests by the falling weight deflectometer device. The study included the available types of this device and studied its components in detail as well as the most important functions performed by the falling weight deflectometer.

In this survey, many correlations were studied on two locations in Research Center of the Faculty of Transportation - University of Pardubice in Pardubice District. First location consists of flexible pavement and the second location consist of semi-rigid pavement. The measuring has been carried under different situations (weather conditions and temperatures) throughout experiments time which still continuous for three months from April to June. Through these months, three days were chosen to make the deflection tests. 9 points (on each location) were tested, and 10 drops for each point was made by FWD device. While the temperature measured by two methods. First by an Arduino thermometer which has been continuous measuring through all day and night (for selected days) and second by FWD thermometer. The survey analyzed the temperature's behaviors in pavements layers up to 430 mm under pavement surface, which shown a different relationship according to the depths. That relationships were had a same reaction between air temperatures and first pavement's layers (up to 230mm under surface of the pavement) and inverse relationship between air temperature and last layer (deepest layer studied in this thesis which on 430 mm under

surface of the pavement). Other correlations were made between air temperature, surface pavement temperature and mid-depth pavement temperature, while the second correlation was made between surface pavement temperature and mid-depth pavement temperature. Also, the temperature data that got from FWD thermometer and Arduino thermometer was compared, and strong correlation was showed.

The deflection in two locations (flexible and semi-rigid pavements) are studied. The falling weight deflctometer and Arduino thermometer are used in this experiments side by side. However, the influence of change temperatures was clear on pavements performance. Both types, (flexible and semi-rigid) pavements were affected by increasing/decreasing temperatures. The increase temperature increased the value of the deflection and decreased temperatures got lower deflections. The average deviation of flexible pavement deflections and semi-rigid pavement deflections, for mid depth asphalt pavement temperature that obtained by an FWD thermometer were studied. On both pavements (type flexible and semi-rigid), a positive correlation was shown. Where the semi-rigid shown deviation less effected by temperature changing compared to flexible pavement.

From this thesis, the researcher learned to be a device operator for falling weight deflectometer device, which consider one of the main equipment that uses for determining the constructions conditions of the pavement's road. Also learned how to design , assembling, and powering a research's thermometer. The main mission that the student learned, that how to start step by step to make a scientific research that will be a good base to start in a scientific research field.

6.2 Recommendations and future work

1. The study recommends make large and long-range surveys conduct throughout the seasons to further clarify the relationship between the changes in pavement's temperature and deflections by falling weight deflectometer, to make a simulation between them, and to predict the value of the deviation occurring in the asphalt layers based on the theoretical relationships.
2. Studying the behavior of long-term temperatures in the layers of the depth of asphalt, especially during the winter season or when snowfall , taking in considerations development the acquisition temperature system to more easier uploading data and more effective.

3. Calculate the cracking size (depth) according to FWD device and deflections data.
4. By using a falling weight deflctometer, make a study to explain the reaction of the pavement on curves and above the bridges (in cases where the use of an FWD is not allowed at the present time).
5. By using a falling weight deflctometer, make a study to explain the reaction of the pavement when the temperature drops below zero degrees Celsius or when snow falls (in non-standard FWD operations conditions and in abnormal conditions).

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Annex A- Data of deflections and temperatures, measured by FWD device at flexible pavement

Points number on the experiments	Sequence	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Air Temperature	Surface Temperature	Asphalt Temperature	Date & Time
11	1	50.5	170	90	68.6	54.7	44.6	39.1	36.1	28.5	24.3	14.5	13.9	15.9	4/30/2021 7:28
11	2	50.6	169	89.8	68.3	54.9	45	39.7	35.7	28.6	25	14.5	13.9	15.9	4/30/2021 7:28
11	3	50.2	165	87.4	66.8	53.6	43.9	38.5	32.5	28.5	25.1	14.5	13.9	15.9	4/30/2021 7:28
11	4	52.3	173	91.6	69.9	56.6	46.5	41.4	39.8	30.3	27.1	14.5	13.9	15.9	4/30/2021 7:28
11	5	50.4	170	88.9	67.5	55.2	45.4	41	36.3	29.7	25.5	14.5	13.9	15.9	4/30/2021 7:28
11	6	50.4	171	89.2	67.5	55.3	45	38.7	32.5	29.1	24.8	14.5	13.9	15.9	4/30/2021 7:28
11	7	50.3	170	88.9	67.4	55.4	45.1	39.3	33.2	28.9	24.9	14.5	13.9	15.9	4/30/2021 7:28
11	8	50.4	172	88.8	67.5	55.4	45.1	39.2	33.1	28.7	24.6	14.5	13.9	15.9	4/30/2021 7:28
11	9	50.2	166	87.3	66.5	54.4	44.1	37.3	33	28.6	25	14.5	13.9	15.9	4/30/2021 7:28
11	10	49.9	167	87.2	66.4	54	43.5	37.1	32.5	27.7	24.1	14.5	13.9	15.9	4/30/2021 7:28
7	1	49.9	200	117	86.7	67.7	50	41.5	37.1	29.3	25.5	14	14.2	16.2	4/30/2021 7:24
7	2	49.8	201	118	87.2	68.1	50.4	41.6	34.9	29.1	25.2	14	14.2	16.2	4/30/2021 7:24
7	3	49.6	198	116	85.5	67	49.9	41.2	34.3	25.5	25.5	14	14.2	16.2	4/30/2021 7:24
7	4	49.5	201	117	85.8	67.4	50.3	41.2	34.7	27.5	25.5	14	14.2	16.2	4/30/2021 7:24
7	5	49.6	198	115	86.3	67.5	50.8	41.8	34.6	30.5	26.2	14	14.2	16.2	4/30/2021 7:24
7	6	49.6	203	117	86.1	67.8	50.9	41.6	35.1	29.5	26	14	14.2	16.2	4/30/2021 7:24
7	7	49.6	203	117	86.6	68.1	50.1	41.1	34.2	28.8	25.5	14	14.2	16.2	4/30/2021 7:24
7	8	49.6	202	116	85.6	67.7	50.3	41.3	35.1	29.3	25.8	14	14.2	16.2	4/30/2021 7:24
7	9	49.7	200	115	86.3	67.4	50.5	41.6	34.6	29.5	26	14	14.2	16.2	4/30/2021 7:24
7	10	49.8	201	116	86.6	68	51	42	35	29.7	26.3	14	14.2	16.2	4/30/2021 7:24
8	1	50	151	79.9	62.6	52.6	43.5	50.5	34.2	28.1	23.1	14.2	14.5	16.5	4/30/2021 7:25
8	2	50.1	150	79.9	62.2	52.7	43.7	32.1	32.9	28	24.1	14.2	14.5	16.5	4/30/2021 7:25
8	3	51.1	154	82.1	64.6	55	45.6	45.9	37.9	29.4	25	14.2	14.5	16.5	4/30/2021 7:25
8	4	52.2	159	83.2	65.7	55.6	46.1	44.7	36.9	29.4	25.6	14.2	14.5	16.5	4/30/2021 7:25
8	5	50.1	152	80.6	63.3	53.3	44.4	40.8	34.8	28.7	23.8	14.2	14.5	16.5	4/30/2021 7:25
8	6	49.8	145	79.3	62.1	52.4	43.6	38.3	33.8	27.3	23.2	14.2	14.5	16.5	4/30/2021 7:25
8	7	49.8	155	79.7	62.9	52.8	43.7	38.9	33.7	28	23.8	14.2	14.5	16.5	4/30/2021 7:25
8	8	49.8	151	79.4	62.9	52.2	43	37.7	33.1	27.6	24	14.2	14.5	16.5	4/30/2021 7:25
8	9	50	148	80.6	63.6	53.1	43.9	39.7	34.9	27.5	24.3	14.2	14.5	16.5	4/30/2021 7:25
8	10	50.1	157	81	64.7	53.2	43.9	38.3	33.1	27.7	24	14.2	14.5	16.5	4/30/2021 7:25
10	1	49.7	258	154	106	74.1	47.6	38	32.5	27.4	24.3	14.6	14.5	16.5	4/30/2021 7:27
10	2	49.9	259	154	107	75.1	48.8	38.5	33.7	29.2	25.4	14.6	14.5	16.5	4/30/2021 7:27
10	3	49.8	258	153	106	74.6	48.5	38.4	33.5	29.1	25.1	14.6	14.5	16.5	4/30/2021 7:27
10	4	50.5	266	155	108	75.7	48.6	39	33.5	28.1	25.2	14.6	14.5	16.5	4/30/2021 7:27
10	5	49.6	256	153	106	74.5	47.4	37.7	32.7	29.7	25.7	14.6	14.5	16.5	4/30/2021 7:27
10	6	49.7	256	152	106	74.6	47.4	38	33.3	28.6	26.8	14.6	14.5	16.5	4/30/2021 7:27
10	7	49.6	255	151	105	74.2	47.5	38.5	33.1	29.7	27.3	14.6	14.5	16.5	4/30/2021 7:27

10	8	49.8	257	153	106	74.9	48.8	39.2	35.8	31.1	25.6	14.6	14.5	16.5	4/30/2021 7:27
10	9	49.8	259	153	106	75.2	47.9	40.5	34.5	28.4	24.8	14.6	14.5	16.5	4/30/2021 7:27
10	10	50.5	261	154	107	75.7	48	39.2	32.3	28.1	24.2	14.6	14.5	16.5	4/30/2021 7:27
9	1	50.1	112	71.9	56.8	47.3	38.7	32.6	29.2	26	22.3	14.4	14.7	16.7	4/30/2021 7:26
9	2	50.9	112	72.2	57.1	48	38.8	33.5	30.3	27	23.1	14.4	14.7	16.7	4/30/2021 7:26
9	3	50.3	113	71.7	57	48.2	40	33.4	30.2	26.9	23.3	14.4	14.7	16.7	4/30/2021 7:26
9	4	50.3	113	71.7	57.1	48.1	39.4	33.3	30.3	26.7	23.2	14.4	14.7	16.7	4/30/2021 7:26
9	5	49.9	111	70.6	56.2	47.2	37.8	32.5	29.3	26.6	24	14.4	14.7	16.7	4/30/2021 7:26
9	6	50	113	71.2	56.9	47.6	38.7	32.6	29.5	28.8	23.6	14.4	14.7	16.7	4/30/2021 7:26
9	7	50.2	115	72.2	57.6	47.9	38.9	32.9	29.7	27	22.9	14.4	14.7	16.7	4/30/2021 7:26
9	8	50.2	114	72.1	57.2	47.9	39	33.1	29.6	25.3	23.1	14.4	14.7	16.7	4/30/2021 7:26
9	9	50.3	112	72.6	57.7	48.1	39.3	33.4	29.9	26.5	23	14.4	14.7	16.7	4/30/2021 7:26
9	10	50	116	71	56	47	38.3	31.6	28.1	25.3	21.9	14.4	14.7	16.7	4/30/2021 7:26
12	1	51.2	129	78	60.8	50.6	41.2	36.1	31.7	27.7	24.9	14.8	14.7	16.7	4/30/2021 7:29
12	2	50.7	128	77	60.2	50.6	41.6	36	32.7	27	24.7	14.8	14.7	16.7	4/30/2021 7:29
12	3	51.5	132	77.8	60.8	50.7	41.6	36.4	31.1	27.7	22.9	14.8	14.7	16.7	4/30/2021 7:29
12	4	51.1	132	77.5	60.7	50.9	41.9	36.7	31.6	27	23.8	14.8	14.7	16.7	4/30/2021 7:29
12	5	50.4	126	76	60.1	50.5	41.5	36.2	31	26.9	22.1	14.8	14.7	16.7	4/30/2021 7:29
12	6	50.5	125	76.1	59.9	50.5	42.2	36.3	31.2	28.1	23.9	14.8	14.7	16.7	4/30/2021 7:29
12	7	50.6	128	77.3	60.6	50.8	41.8	36.1	32.4	27.6	24.9	14.8	14.7	16.7	4/30/2021 7:29
12	8	50.4	126	76.3	59.8	50.3	41.5	36.4	31.4	26.8	24.3	14.8	14.7	16.7	4/30/2021 7:29
12	9	50.4	130	75.7	59.4	49.8	41.2	35.8	30.8	26.1	23.9	14.8	14.7	16.7	4/30/2021 7:29
12	10	50.4	128	75.6	59.4	50.1	41.4	36.5	31.1	26.8	25	14.8	14.7	16.7	4/30/2021 7:29
5	1	49.5	182	82.3	57.5	45.1	37	77.4	33.2	24.4	20.9	13.9	15.1	17.1	4/30/2021 7:22
5	2	50.3	187	83.8	58.6	47.1	38.3	39.2	29.6	25.3	21.8	13.9	15.1	17.1	4/30/2021 7:22
5	3	50.4	189	83.8	58.5	47.4	38.5	35.9	29.1	25.2	22.1	13.9	15.1	17.1	4/30/2021 7:22
5	4	49.8	188	83.7	58	47.1	38.5	37.8	30.9	25.8	22.3	13.9	15.1	17.1	4/30/2021 7:22
5	5	50.8	193	85.7	59.2	48.1	39.2	36.6	30.5	26	22.7	13.9	15.1	17.1	4/30/2021 7:22
5	6	50.7	193	85.6	59.4	48.1	39.1	35.7	30.4	25.9	22.8	13.9	15.1	17.1	4/30/2021 7:22
5	7	49.8	193	84	57.9	47.5	38.4	34.4	28.8	25.6	22.4	13.9	15.1	17.1	4/30/2021 7:22
5	8	50.5	190	83.2	57.6	47.4	38.5	31.8	27.6	25.4	21.7	13.9	15.1	17.1	4/30/2021 7:22
5	9	49.8	192	84.1	57.9	47	38.4	35.4	29.4	25.3	22.2	13.9	15.1	17.1	4/30/2021 7:22
5	10	49.9	193	84.1	57.8	47.1	38.3	33.9	28.4	25.6	22.1	13.9	15.1	17.1	4/30/2021 7:22
6	1	50.3	95.8	56.3	44.3	39.1	34	32	27.7	24.2	21.6	14.1	15.2	17.2	4/30/2021 7:23
6	2	50.3	95.9	55.6	43.9	38.8	33.7	31.1	27.2	23.9	20.9	14.1	15.2	17.2	4/30/2021 7:23
6	3	50.7	95.7	55.6	44.2	39	33.3	29.6	26.4	23.1	20.5	14.1	15.2	17.2	4/30/2021 7:23
6	4	49.9	98.2	54.7	43.9	38.7	33.8	29.8	26	24	21.5	14.1	15.2	17.2	4/30/2021 7:23
6	5	49.8	89.9	54.9	43.8	38.7	33.2	28.9	26.2	23.2	20	14.1	15.2	17.2	4/30/2021 7:23
6	6	50.1	91.1	54.8	44.2	39	33.9	30.3	27.2	24.4	21.7	14.1	15.2	17.2	4/30/2021 7:23
6	7	50	94.4	55.1	44.2	39	33.5	29.3	26.5	23.5	20.8	14.1	15.2	17.2	4/30/2021 7:23
6	8	49.9	88.4	54	43.7	38.6	33.1	28.7	26	23.6	19.7	14.1	15.2	17.2	4/30/2021 7:23
6	9	50.1	85.6	55.2	44.3	39.4	34.2	30.2	27.2	24.6	21.5	14.1	15.2	17.2	4/30/2021 7:23
6	10	50	90.8	55	44.2	39.5	33.8	29.7	26.7	23.8	20.9	14.1	15.2	17.2	4/30/2021 7:23
4	1	49.6	188	101	72	57.6	44.6	38.1	32.9	28.3	23.5	13.8	15.7	17.7	4/30/2021 7:21
4	2	49.5	181	97.5	70.5	56.8	44.1	38.4	32.3	27.3	23.1	13.8	15.7	17.7	4/30/2021 7:21
4	3	49.4	182	97.5	70.7	57.4	44.3	38	32.1	26.9	22.7	13.8	15.7	17.7	4/30/2021 7:21
4	4	49.7	179	96.5	70.6	57.2	44.7	39.2	32.6	27.6	23.7	13.8	15.7	17.7	4/30/2021 7:21
4	5	49.5	177	95.3	70	57.1	43.9	38.2	33.9	28.6	23.1	13.8	15.7	17.7	4/30/2021 7:21
4	6	49.5	178	96.8	70.8	57.7	44.3	37.8	33.5	26.8	23	13.8	15.7	17.7	4/30/2021 7:21
4	7	49.5	178	95.8	70.2	57.3	44.2	37.8	33.5	26.6	22.3	13.8	15.7	17.7	4/30/2021 7:21

4	8	50.7	182	98.9	72.6	59	45.7	39.2	34.6	27.6	23.8	13.8	15.7	17.7	4/30/2021 7:21
4	9	49.6	178	96.4	70.8	57.8	44.7	38.2	33.9	26.8	23	13.8	15.7	17.7	4/30/2021 7:21
4	10	49.7	177	95.9	70.5	58	44.5	37.9	33.5	26	21.9	13.8	15.7	17.7	4/30/2021 7:21
10	1	49	263	150	103	72.7	49.7	40.6	35.7	30.3	25	24.6	20.2	20.2	5/11/2021 9:11
10	2	49	264	149	103	72.9	50.2	41.4	37.3	32.6	27.7	24.6	20.2	20.2	5/11/2021 9:11
10	3	49.8	266	152	104	74.3	51.1	41.9	35.3	30.8	27	24.6	20.2	20.2	5/11/2021 9:11
10	4	48.8	250	147	101	72	49.6	40.2	33.5	31.1	26.4	24.6	20.2	20.2	5/11/2021 9:11
10	5	49.2	255	149	103	73.7	51.4	43.2	34.8	30.6	27.4	24.6	20.2	20.2	5/11/2021 9:11
10	6	48.9	254	148	102	73	49.7	42	33.5	29.5	25.8	24.6	20.2	20.2	5/11/2021 9:11
10	7	49.1	251	147	101	72.6	49.8	41	33.6	29.7	25.7	24.6	20.2	20.2	5/11/2021 9:11
10	8	49.2	251	148	102	73	50.2	42.4	34.6	30.4	26.9	24.6	20.2	20.2	5/11/2021 9:11
10	9	49.9	256	150	103	74.1	51.3	43.9	36	31.1	27	24.6	20.2	20.2	5/11/2021 9:11
10	10	49.1	250	147	101	72.5	49.6	42.3	34.3	30.4	25.9	24.6	20.2	20.2	5/11/2021 9:11
7	1	50.8	212	125	92.4	71.1	52.2	41	34.6	27.8	24.8	16.1	19.7	20.7	4/30/2021 9:42
7	2	50.8	211	125	92.9	72	52.2	42.9	35.7	30.8	26.1	16.1	19.7	20.7	4/30/2021 9:42
7	3	50	217	124	91.7	70.7	51	42.6	35.2	30.2	25.9	16.1	19.7	20.7	4/30/2021 9:42
7	4	51.9	217	128	95	73.5	53.1	43.9	36.2	30.9	26.4	16.1	19.7	20.7	4/30/2021 9:42
7	5	49.8	212	123	91.5	70.5	50.6	41.6	34.6	29.3	25.5	16.1	19.7	20.7	4/30/2021 9:42
7	6	49.7	209	121	90	69.9	49.2	40.9	34.3	29.3	25.3	16.1	19.7	20.7	4/30/2021 9:42
7	7	49.9	211	123	91.2	70.8	51.3	42.2	35	29.1	26.1	16.1	19.7	20.7	4/30/2021 9:42
7	8	50.7	210	123	91.7	71.3	51	41.9	34.9	29.1	25.9	16.1	19.7	20.7	4/30/2021 9:42
7	9	50.6	210	124	92.6	71.6	51.4	42	35	28.3	25.1	16.1	19.7	20.7	4/30/2021 9:42
7	10	50.9	213	125	93.3	72.5	52.8	43.3	36	29.6	26.4	16.1	19.7	20.7	4/30/2021 9:42
4	1	49.7	166	96.6	69.8	58.2	47.2	41.4	34.1	28.6	24.8	22.4	21.2	21.2	5/11/2021 9:06
4	2	49.9	169	96.1	71.2	58.4	46.5	40.3	32.9	27.5	23.5	22.4	21.2	21.2	5/11/2021 9:06
4	3	50	168	96.1	72.4	59	46.9	40.3	32.6	27.9	23.9	22.4	21.2	21.2	5/11/2021 9:06
4	4	49.9	163	95.7	71.9	59.1	47.2	40.2	32.8	28.1	24.2	22.4	21.2	21.2	5/11/2021 9:06
4	5	50.1	165	96.5	72.8	60.1	47.8	40.5	32.9	27.4	24.5	22.4	21.2	21.2	5/11/2021 9:06
4	6	50	166	96.1	72.6	59.9	47.5	40.3	31.9	27.5	23.7	22.4	21.2	21.2	5/11/2021 9:06
4	7	51	166	96.7	73.2	60.1	49.1	41.7	33.6	29	25	22.4	21.2	21.2	5/11/2021 9:06
4	8	50.3	168	95.4	72.3	59.8	49	41.9	34.9	28.8	24.7	22.4	21.2	21.2	5/11/2021 9:06
4	9	50.1	168	96	72.5	59.9	47.8	41.1	33.7	27.9	23.9	22.4	21.2	21.2	5/11/2021 9:06
4	10	50	165	95.3	72.3	59.6	48.5	41.4	35.6	28.7	24.8	22.4	21.2	21.2	5/11/2021 9:06
9	1	50.2	106	70.4	56.9	48.6	41.1	35.3	31.8	27.8	24.4	22.9	19.3	21.3	5/11/2021 7:34
9	2	49.7	105	69	55.9	47.5	39.9	34	30.8	26.7	23.3	22.9	19.3	21.3	5/11/2021 7:34
9	3	49.7	104	68.2	55.3	47.2	39.7	34.8	30.7	27	23.8	22.9	19.3	21.3	5/11/2021 7:34
9	4	50.2	107	70.3	57.1	49.2	40.9	35.8	31.9	27.8	24.4	22.9	19.3	21.3	5/11/2021 7:34
9	5	49.8	113	69.6	56.3	48.4	40.4	35.4	31.2	27.3	23.8	22.9	19.3	21.3	5/11/2021 7:34
9	6	49.7	99.6	68.8	55.3	47.8	40.2	35.7	30.9	27.2	23.8	22.9	19.3	21.3	5/11/2021 7:34
9	7	50.2	100	69.9	56.4	48.7	40.4	35.4	31.6	25.9	24.1	22.9	19.3	21.3	5/11/2021 7:34
9	8	50.9	109	69.7	57	49.1	40.9	35.8	31.6	27.5	23.7	22.9	19.3	21.3	5/11/2021 7:34
9	9	50.9	111	70.8	56.4	49.1	40.4	35.6	31.2	28	24.1	22.9	19.3	21.3	5/11/2021 7:34
9	10	49.8	105	69.2	55.1	47.6	39.6	35.1	30.4	27.2	23.9	22.9	19.3	21.3	5/11/2021 7:34
4	1	49.9	176	101	74.1	55.6	46.7	39	33.4	27.9	23.8	15	20.4	21.4	4/30/2021 9:39
4	2	49.6	174	98.7	73.2	55.5	45.6	38.9	33.5	29.8	23.3	15	20.4	21.4	4/30/2021 9:39
4	3	49.3	171	96.6	72	58.2	44.7	38.3	32.5	26.7	23	15	20.4	21.4	4/30/2021 9:39
4	4	50	177	99.1	73.7	58.2	45.9	39.2	33.3	26.6	23.5	15	20.4	21.4	4/30/2021 9:39
4	5	49.4	170	96.8	72.4	53.3	45.3	38.8	32.4	26.8	23.6	15	20.4	21.4	4/30/2021 9:39
4	6	50.2	176	98.8	73.5	62.2	45.8	39	33.1	25.6	23.4	15	20.4	21.4	4/30/2021 9:39
4	7	49.5	175	97.8	72.9	60.1	45.8	39.2	33.1	28.5	23.3	15	20.4	21.4	4/30/2021 9:39

4	8	50.5	179	99.5	74.3	59.2	46.7	39.7	33.6	27.8	23.5	15	20.4	21.4	4/30/2021 9:39
4	9	49.7	163	97.8	73.1	60.2	46.5	38.4	33	27.9	23.4	15	20.4	21.4	4/30/2021 9:39
4	10	49.5	170	96.4	72.3	59.1	45.6	38.8	32.3	27.3	23.3	15	20.4	21.4	4/30/2021 9:39
8	1	49.7	152	81.4	64.5	54.7	46	40.9	35.2	29.8	25.6	23.2	19.5	21.5	5/11/2021 7:33
8	2	50.8	156	84	66.6	56.8	47.9	42.8	36.6	31.1	26.5	23.2	19.5	21.5	5/11/2021 7:33
8	3	49.9	152	82.7	65.6	55.9	47	41.9	36.2	29.6	26.4	23.2	19.5	21.5	5/11/2021 7:33
8	4	49.8	153	82.2	65.1	55.4	46.2	41	35.2	29.8	25.7	23.2	19.5	21.5	5/11/2021 7:33
8	5	50	150	82.4	65.2	55.9	47.2	42.6	36.2	30.4	26.5	23.2	19.5	21.5	5/11/2021 7:33
8	6	50	150	82.3	65	55.8	46.8	41.7	35.4	29.3	25.8	23.2	19.5	21.5	5/11/2021 7:33
8	7	49.9	151	80.8	64.1	55	46	42.2	35.6	29.7	25.8	23.2	19.5	21.5	5/11/2021 7:33
8	8	50.7	151	82	65.1	55.8	46.6	42.4	35.8	31.1	25.6	23.2	19.5	21.5	5/11/2021 7:33
8	9	50.4	148	81.3	64.9	55.5	46.5	42.3	35.4	29.8	25.8	23.2	19.5	21.5	5/11/2021 7:33
8	10	50	152	81.5	64.8	55.3	46.5	42.4	35.5	29.1	26.2	23.2	19.5	21.5	5/11/2021 7:33
7	1	49.9	216	121	85.5	68.7	52.1	43.1	36.2	30	26	23.4	21.5	21.5	5/11/2021 9:09
7	2	49.9	216	121	86.5	69.5	52.7	43.8	36	30.6	26	23.4	21.5	21.5	5/11/2021 9:09
7	3	50	215	122	88.6	70.3	54.8	45.2	37.4	31.1	27.2	23.4	21.5	21.5	5/11/2021 9:09
7	4	50	214	121	88.6	70.3	54.3	45	36.9	31.7	28.4	23.4	21.5	21.5	5/11/2021 9:09
7	5	49.8	210	119	87.1	69.8	52.3	43.8	37.7	32.3	28.1	23.4	21.5	21.5	5/11/2021 9:09
7	6	49.5	210	118	86.5	68.5	52.3	44.1	36	31.4	27.4	23.4	21.5	21.5	5/11/2021 9:09
7	7	49.9	220	120	86.6	69.9	53.3	44.3	36.5	29.6	28.4	23.4	21.5	21.5	5/11/2021 9:09
7	8	49.5	214	118	85.6	71.3	52	43.5	37.5	30.2	27.5	23.4	21.5	21.5	5/11/2021 9:09
7	9	49.8	213	120	87.7	70	54.2	45.4	36	29.6	28.5	23.4	21.5	21.5	5/11/2021 9:09
7	10	50.7	214	120	88.7	69.9	53.4	44.1	37	30.7	28.8	23.4	21.5	21.5	5/11/2021 9:09
8	1	51.3	160	83.9	65.2	54.8	45.1	43.1	42	28.3	25.1	16.4	20.6	21.6	4/30/2021 9:43
8	2	50	154	80.5	62.9	53.4	44.1	40.8	36.7	27.9	23.9	16.4	20.6	21.6	4/30/2021 9:43
8	3	50.2	153	81.8	64	54	44.3	40	33.9	28.2	24.3	16.4	20.6	21.6	4/30/2021 9:43
8	4	50.5	158	82.2	64.5	54.4	45	41.9	35.6	29.7	24.9	16.4	20.6	21.6	4/30/2021 9:43
8	5	50.1	151	80.4	63.1	53.7	42.9	39.8	32.7	27.7	24.3	16.4	20.6	21.6	4/30/2021 9:43
8	6	50.4	155	81.9	63.4	54.2	45	44.6	34.2	28.9	24.5	16.4	20.6	21.6	4/30/2021 9:43
8	7	50.4	152	81.4	62.9	54.1	45.7	42.8	33.3	27.8	24.4	16.4	20.6	21.6	4/30/2021 9:43
8	8	50.2	153	80.2	63	53.4	44.3	39.7	33	27.2	23.7	16.4	20.6	21.6	4/30/2021 9:43
8	9	50.3	157	80.7	63.5	54.1	44.9	40.9	33.7	28.3	24.7	16.4	20.6	21.6	4/30/2021 9:43
8	10	50.4	163	81.7	63.9	54	44.9	40.1	33.5	27.5	23.9	16.4	20.6	21.6	4/30/2021 9:43
10	1	50.6	266	157	106	75.4	48.3	38.2	36	28.4	24.6	17.1	20.9	21.9	4/30/2021 9:45
10	2	50.2	261	155	104	74.7	47.8	38.8	33.1	28.5	23.6	17.1	20.9	21.9	4/30/2021 9:45
10	3	50.5	259	156	104	74.9	49.3	39.7	32.4	29.1	23.7	17.1	20.9	21.9	4/30/2021 9:45
10	4	50.1	262	156	104	74.6	48	38.3	31.7	27.6	23	17.1	20.9	21.9	4/30/2021 9:45
10	5	50.4	262	157	105	75.4	50.4	39.8	33	29.4	24.2	17.1	20.9	21.9	4/30/2021 9:45
10	6	50.2	263	156	104	75.1	48.4	38.1	32.1	27.9	25	17.1	20.9	21.9	4/30/2021 9:45
10	7	50.3	260	156	104	75.2	48.6	37.6	31.9	27.8	24.4	17.1	20.9	21.9	4/30/2021 9:45
10	8	50.3	259	154	103	74.1	48.9	39.6	33	26.3	25.3	17.1	20.9	21.9	4/30/2021 9:45
10	9	50.3	260	153	104	73.7	48.1	36.5	31.6	27.6	23.6	17.1	20.9	21.9	4/30/2021 9:45
10	10	50.4	264	155	105	75.2	50.4	38.8	35.6	29.4	24.4	17.1	20.9	21.9	4/30/2021 9:45
5	1	50	153	78	57.7	46.5	39.1	34.2	30.3	25.8	22.5	22.6	21.9	21.9	5/11/2021 9:07
5	2	50.3	152	78.1	58.4	46.8	39.4	34.9	31.2	26.3	23.1	22.6	21.9	21.9	5/11/2021 9:07
5	3	50.2	150	77.8	57.9	47.1	39.7	35.5	31.6	27.3	23.9	22.6	21.9	21.9	5/11/2021 9:07
5	4	50.3	147	76.8	57.1	46.3	38.6	34.7	30.8	26.7	23.3	22.6	21.9	21.9	5/11/2021 9:07
5	5	50.1	149	75.9	56.2	46	38.7	35.1	30.2	26.3	22.9	22.6	21.9	21.9	5/11/2021 9:07
5	6	51.1	151	78.1	57.9	47.5	39.9	36.1	30.7	26.1	22.6	22.6	21.9	21.9	5/11/2021 9:07
5	7	51.3	154	79	58.8	48.2	40.6	36.7	31.4	27	23.3	22.6	21.9	21.9	5/11/2021 9:07

5	8	50.2	151	77.1	57.5	47	39.7	35.9	30.7	26.4	23.4	22.6	21.9	21.9	5/11/2021 9:07
5	9	49.7	150	75.4	56.3	46.2	38.6	35.2	29.9	26.1	22.1	22.6	21.9	21.9	5/11/2021 9:07
5	10	50.9	151	76.8	57.5	46.9	39.7	36.2	30.7	26.9	23	22.6	21.9	21.9	5/11/2021 9:07
6	1	50.4	87.6	53.4	44.6	39.4	34.5	29.7	26.7	23.8	20.7	15.7	21	22	4/30/2021 9:41
6	2	50.2	84.6	53.5	45.4	39.4	34	29.8	27.3	24.3	21.2	15.7	21	22	4/30/2021 9:41
6	3	50.1	84.4	52.8	44.2	39.5	34.6	30	26.6	23.7	21.2	15.7	21	22	4/30/2021 9:41
6	4	50.3	87.2	53.3	44.7	39.9	34.9	30.3	27.2	24.3	21.4	15.7	21	22	4/30/2021 9:41
6	5	49.9	85.6	52.6	44.3	38.8	33.1	29.6	26.8	23.7	20.2	15.7	21	22	4/30/2021 9:41
6	6	50.9	86.8	53.6	44.6	40	34.9	30.3	27	24.1	19	15.7	21	22	4/30/2021 9:41
6	7	49.8	88.1	52.7	44	38.9	32.1	28.3	27	23.6	20.2	15.7	21	22	4/30/2021 9:41
6	8	50.2	88.5	53.8	44.9	40	35	30	26.9	24.2	18.5	15.7	21	22	4/30/2021 9:41
6	9	49.8	85.6	52.4	43.5	38.5	32.1	27.8	26.4	22.7	18.7	15.7	21	22	4/30/2021 9:41
6	10	50.2	87.4	53.6	44.6	40	34.6	29.8	26.7	23.8	19	15.7	21	22	4/30/2021 9:41
7	1	49.7	222	126	91.7	71.3	53	44	37.1	31	26.7	23.3	20	22	5/11/2021 7:32
7	2	49.4	219	124	90.2	70.4	52.3	43.4	36.8	30	27.1	23.3	20	22	5/11/2021 7:32
7	3	50.5	222	126	92.8	72.5	54.9	46.5	38.3	30.9	27.6	23.3	20	22	5/11/2021 7:32
7	4	49.5	215	123	90.2	70.3	52.7	43.5	36.3	29.4	26.2	23.3	20	22	5/11/2021 7:32
7	5	49.8	214	124	90	71	52.9	44.2	37.3	30.8	27.4	23.3	20	22	5/11/2021 7:32
7	6	49.5	212	122	90.2	70.1	52.4	43.4	35.9	29	25.7	23.3	20	22	5/11/2021 7:32
7	7	49.8	214	123	89.6	70.8	52.8	44.3	37.3	31.7	27.3	23.3	20	22	5/11/2021 7:32
7	8	50.5	219	124	90.8	71.2	53.3	44.3	36.5	29.5	26.3	23.3	20	22	5/11/2021 7:32
7	9	49.6	212	122	89	70.5	52.8	44.4	37.1	29.9	26.9	23.3	20	22	5/11/2021 7:32
7	10	49.8	215	123	89.7	71.1	53.3	44.6	37.5	30.4	27.6	23.3	20	22	5/11/2021 7:32
10	1	50	251	157	109	77.5	51.3	41.9	35.7	30.5	26.3	23.3	20.1	22.1	5/11/2021 7:34
10	2	49.3	241	152	106	76	50.8	41.6	35.9	31	26.5	23.3	20.1	22.1	5/11/2021 7:34
10	3	49.9	247	153	108	77.4	52.3	42.6	37.5	31.7	27.7	23.3	20.1	22.1	5/11/2021 7:34
10	4	49.5	246	152	107	76.6	51.6	41.6	36.2	31.2	26.9	23.3	20.1	22.1	5/11/2021 7:34
10	5	49.6	247	153	108	77.5	52.5	42.4	36.6	31	26.4	23.3	20.1	22.1	5/11/2021 7:34
10	6	50.5	251	154	109	78.1	53.4	42.6	37	31.2	26.8	23.3	20.1	22.1	5/11/2021 7:34
10	7	49.4	243	149	106	75.6	50.6	40.9	35.9	30.2	26.5	23.3	20.1	22.1	5/11/2021 7:34
10	8	49.6	250	152	107	77	52	42.3	36.3	31.4	26.4	23.3	20.1	22.1	5/11/2021 7:34
10	9	49.5	242	152	108	77.2	52.8	42.9	36.3	31.3	26.4	23.3	20.1	22.1	5/11/2021 7:34
10	10	50.1	243	151	107	76.4	51.3	41.1	35.4	29.9	26.2	23.3	20.1	22.1	5/11/2021 7:34
12	1	49.9	128	74.1	58.5	49.5	41.7	37	32.4	28.1	24.4	23.7	20.1	22.1	5/11/2021 7:36
12	2	49.5	120	73.5	57.8	49.1	42	36.6	31.9	27.7	23.8	23.7	20.1	22.1	5/11/2021 7:36
12	3	49.8	123	74.1	58.5	49.8	42	37	33.1	28.1	25.5	23.7	20.1	22.1	5/11/2021 7:36
12	4	49.6	130	73.4	58	49.5	42.9	37	33.1	27.4	25	23.7	20.1	22.1	5/11/2021 7:36
12	5	49.7	127	72.9	57.8	49.5	42.2	36.8	32.8	27.4	25.6	23.7	20.1	22.1	5/11/2021 7:36
12	6	49.7	129	73.2	58.3	49.8	43.3	37.1	32.5	27.4	25.3	23.7	20.1	22.1	5/11/2021 7:36
12	7	49.7	131	72.8	58.4	49.7	42.6	36.9	32.6	27.4	25	23.7	20.1	22.1	5/11/2021 7:36
12	8	49.3	127	71.4	56.9	48.7	40.8	35.6	31.6	26.9	24.3	23.7	20.1	22.1	5/11/2021 7:36
12	9	49.6	127	73.1	58.4	49.7	43.1	37.2	32.4	27.3	24.7	23.7	20.1	22.1	5/11/2021 7:36
12	10	49.7	122	72.7	58	49.4	42.4	36.4	32	26.7	24.5	23.7	20.1	22.1	5/11/2021 7:36
11	1	51.4	173	93.1	68.9	55.3	44.8	39.8	38.4	29.4	24.4	17.3	21.2	22.2	4/30/2021 9:46
11	2	50.4	167	89.8	66.6	54	43.8	38.7	35.5	29	24	17.3	21.2	22.2	4/30/2021 9:46
11	3	50.8	170	91	67.6	55.2	45.2	39.9	37	29.9	24.9	17.3	21.2	22.2	4/30/2021 9:46
11	4	50.6	167	88.9	66.1	54.5	44.1	38.7	35.2	28.8	25.1	17.3	21.2	22.2	4/30/2021 9:46
11	5	50.8	167	89.5	66.8	55.5	45.2	39.5	35.9	29.4	26.3	17.3	21.2	22.2	4/30/2021 9:46
11	6	50.9	167	90.1	67.3	53.5	46.5	40.3	34.4	28.9	26	17.3	21.2	22.2	4/30/2021 9:46
11	7	51	167	89.6	67.2	57.3	46	40.2	35.7	29.2	25.7	17.3	21.2	22.2	4/30/2021 9:46

11	8	50.8	169	89.2	66.9	45	45.2	39.5	35.7	29.2	26.4	17.3	21.2	22.2	4/30/2021 9:46
11	9	51.3	170	89.2	67.1	48.1	45.5	38.3	33.1	28.7	25.4	17.3	21.2	22.2	4/30/2021 9:46
11	10	50.7	166	88.3	66.7	51.3	44.4	38.8	35.3	28.1	25	17.3	21.2	22.2	4/30/2021 9:46
4	1	50.2	173	99.4	73.2	60	47.7	40.7	34.9	28.6	24.2	22.4	20.3	22.3	5/11/2021 7:29
4	2	50.4	170	97.2	72.1	59.8	46.8	40	34	28.4	24.5	22.4	20.3	22.3	5/11/2021 7:29
4	3	50.8	170	97.5	73	60.1	48	41.4	34.3	28.9	24.8	22.4	20.3	22.3	5/11/2021 7:29
4	4	50.9	177	97.8	73.7	60.3	48.7	41.6	33.9	31.3	25.1	22.4	20.3	22.3	5/11/2021 7:29
4	5	49.6	168	94.6	71.3	58.3	46.1	39.6	30.8	27.2	23.4	22.4	20.3	22.3	5/11/2021 7:29
4	6	50.5	171	96.6	72.7	59.5	47.5	40.4	32.5	28.4	24.1	22.4	20.3	22.3	5/11/2021 7:29
4	7	50.6	163	95.8	72.5	59.7	46.9	40.5	32	28	23.7	22.4	20.3	22.3	5/11/2021 7:29
4	8	49.5	158	93.8	70.9	58.2	45.9	38.9	31.5	27.8	23.9	22.4	20.3	22.3	5/11/2021 7:29
4	9	50.7	167	96.6	73.5	60.6	48.8	41.8	32.5	29.1	25	22.4	20.3	22.3	5/11/2021 7:29
4	10	50	166	95.2	72.2	59.7	47.7	39.2	31.7	28.9	25.2	22.4	20.3	22.3	5/11/2021 7:29
12	1	51	129	77.5	59.7	50.2	40.9	35.7	31.4	26.7	24.1	17.7	21.4	22.4	4/30/2021 9:46
12	2	51.5	131	77.7	60.2	50.9	42	35.5	32.1	27.6	24.8	17.7	21.4	22.4	4/30/2021 9:46
12	3	51	128	76.8	59.2	50	40.3	36	30.8	26.2	23.8	17.7	21.4	22.4	4/30/2021 9:46
12	4	50.6	127	75.8	58.8	49.5	40.8	35.4	30.5	26.6	23.8	17.7	21.4	22.4	4/30/2021 9:46
12	5	51	128	77.2	59.5	50.1	41.6	36	31.8	28.4	24.4	17.7	21.4	22.4	4/30/2021 9:46
12	6	50.6	128	75.3	58.4	49.2	40.8	34.8	30.4	26.7	23.7	17.7	21.4	22.4	4/30/2021 9:46
12	7	51.1	127	75.7	59.1	50.1	42.1	36.1	31.6	28.1	24.5	17.7	21.4	22.4	4/30/2021 9:46
12	8	51.7	130	76.7	59.7	50.1	41.9	35.9	32	27.9	24.9	17.7	21.4	22.4	4/30/2021 9:46
12	9	52	133	77.8	60.5	51.3	42.8	36.6	32.8	27.9	24.6	17.7	21.4	22.4	4/30/2021 9:46
12	10	51	129	77.1	60	50.8	42.3	36.1	33.6	25.3	24.7	17.7	21.4	22.4	4/30/2021 9:46
5	1	51	183	83.2	59.2	47.1	39.1	44.5	33.6	25.5	21.6	15.5	21.5	22.5	4/30/2021 9:40
5	2	49.7	173	79.8	55.3	45.4	37.2	28.7	30	24.2	21.6	15.5	21.5	22.5	4/30/2021 9:40
5	3	49.8	174	80.1	55.7	46.1	37.5	34.9	30.3	25.3	22.1	15.5	21.5	22.5	4/30/2021 9:40
5	4	49.9	183	82.2	56.4	46.5	38.2	39	31.1	25.8	22.2	15.5	21.5	22.5	4/30/2021 9:40
5	5	49.8	182	81.9	56.3	46.5	38.3	33.7	28.6	26	22.6	15.5	21.5	22.5	4/30/2021 9:40
5	6	49.7	183	82.2	56.6	46.4	38.2	33.9	31.9	25.9	22.4	15.5	21.5	22.5	4/30/2021 9:40
5	7	49.8	175	80.7	56.5	46.2	38.2	33.1	31.1	28	22.1	15.5	21.5	22.5	4/30/2021 9:40
5	8	49.6	172	80.2	55.6	45.7	37.4	28.4	29.5	25.3	21.3	15.5	21.5	22.5	4/30/2021 9:40
5	9	50.7	176	83.6	57.6	47.5	38.9	34.4	31.8	25.3	21.7	15.5	21.5	22.5	4/30/2021 9:40
5	10	49.5	174	80.4	55.7	45.8	37.5	28.1	28	25.1	21.7	15.5	21.5	22.5	4/30/2021 9:40
5	1	49.8	154	78.5	57.6	46.6	39.2	35	29.4	25.6	22.4	22.9	20.6	22.6	5/11/2021 7:30
5	2	49.9	155	80.1	58	47.9	39.9	35.4	31.2	26.6	23.9	22.9	20.6	22.6	5/11/2021 7:30
5	3	49.6	151	78	57	46.6	38.6	34.1	28.8	25.4	22.2	22.9	20.6	22.6	5/11/2021 7:30
5	4	50.6	153	78.4	57.7	47.6	39.3	35	29.8	26.3	23.1	22.9	20.6	22.6	5/11/2021 7:30
5	5	49.5	151	76.2	56.7	46.7	38.6	34.4	29	25.7	22.6	22.9	20.6	22.6	5/11/2021 7:30
5	6	49.9	149	78.6	57.6	47.8	39.5	36.5	29.9	26.7	23.5	22.9	20.6	22.6	5/11/2021 7:30
5	7	49.3	148	76.3	56.4	46.4	38.2	35.7	29.6	25.5	22	22.9	20.6	22.6	5/11/2021 7:30
5	8	49.8	145	77.2	56.7	47.2	39.2	36.9	30.7	26.2	22.8	22.9	20.6	22.6	5/11/2021 7:30
5	9	50.5	150	77.4	56.7	47.2	39.5	37.1	30.8	26.6	23.1	22.9	20.6	22.6	5/11/2021 7:30
5	10	49.5	151	77.4	56.7	47.4	39.6	38.3	31	26.2	22.8	22.9	20.6	22.6	5/11/2021 7:30
9	1	50.5	111	72	57	47.1	38.6	33.1	28.8	26.3	22.9	16.8	21.7	22.7	4/30/2021 9:44
9	2	50.4	109	71.6	56.8	47.2	38.8	33.4	29	26.6	23.4	16.8	21.7	22.7	4/30/2021 9:44
9	3	50.8	111	72.6	58.2	47.7	39.2	33.6	30.5	26.2	23.3	16.8	21.7	22.7	4/30/2021 9:44
9	4	50.5	108	70.7	56.9	47	38	32.4	28.4	26.3	22.5	16.8	21.7	22.7	4/30/2021 9:44
9	5	50.8	112	72.7	58.3	50.5	39.9	33.6	29.8	26.3	22.9	16.8	21.7	22.7	4/30/2021 9:44
9	6	51.3	112	72.8	58.2	49.1	39.6	32.7	30.5	25.6	22.6	16.8	21.7	22.7	4/30/2021 9:44
9	7	50.5	109	71.8	57.1	48	38.8	31.4	30	25.6	21.6	16.8	21.7	22.7	4/30/2021 9:44

9	8	50.4	110	71.1	56.9	46.8	38.1	31.5	30.2	26.1	22.1	16.8	21.7	22.7	4/30/2021 9:44
9	9	50.5	114	70.9	55.9	45.1	38.3	32	29.4	25.9	23	16.8	21.7	22.7	4/30/2021 9:44
9	10	50.4	120	71.9	57.3	48.7	38.5	31.5	29.8	24.7	23.4	16.8	21.7	22.7	4/30/2021 9:44
11	1	49.6	172	91.2	66.5	55.6	46.3	40.6	35.6	31.1	24.9	23.7	20.8	22.8	5/11/2021 7:35
11	2	49.7	171	90.6	66.3	55.5	46.3	40.5	35.5	31.1	24.9	23.7	20.8	22.8	5/11/2021 7:35
11	3	49.6	169	89	65.5	55.1	45.1	39	34.6	29.4	24.9	23.7	20.8	22.8	5/11/2021 7:35
11	4	49.8	176	88.5	65.5	55.3	46.1	40.2	34.1	29.6	25.7	23.7	20.8	22.8	5/11/2021 7:35
11	5	49.4	176	87.4	64.8	54.6	45.8	40.3	34.1	29.8	26.6	23.7	20.8	22.8	5/11/2021 7:35
11	6	49.7	175	88.8	66.4	55.7	46.6	40.7	34.2	27.4	25.9	23.7	20.8	22.8	5/11/2021 7:35
11	7	49.5	168	86.7	64.5	54.2	45.3	39.5	33.1	29	25.5	23.7	20.8	22.8	5/11/2021 7:35
11	8	50.5	170	89.4	66.5	56.1	46.7	40.9	34.4	29.3	26.2	23.7	20.8	22.8	5/11/2021 7:35
11	9	49.3	167	86.6	64.4	54.3	45.5	39.9	33.2	28.9	25.4	23.7	20.8	22.8	5/11/2021 7:35
11	10	49.7	168	87.6	65.5	55.4	46.5	41.7	34.6	30	26.1	23.7	20.8	22.8	5/11/2021 7:35
6	1	49.8	87.1	55.6	45	39.3	34	30.4	27.2	24.1	21	23.3	20.9	22.9	5/11/2021 7:31
6	2	50	87.7	55.1	44.7	39.7	34.7	30.9	28.3	25.1	22.8	23.3	20.9	22.9	5/11/2021 7:31
6	3	50	87.5	55.5	44.5	40	34.9	31.1	27.7	24.3	22.3	23.3	20.9	22.9	5/11/2021 7:31
6	4	50	86.4	54.9	44.2	40	34.6	30.9	28	24.5	22.3	23.3	20.9	22.9	5/11/2021 7:31
6	5	50	85.4	54.8	44.2	40.1	36	30.9	27.7	25.6	22.3	23.3	20.9	22.9	5/11/2021 7:31
6	6	49.8	88.1	55.3	44.6	40.3	35.2	30.9	27.7	24.2	22	23.3	20.9	22.9	5/11/2021 7:31
6	7	49.8	88.2	54.2	43.9	39.7	35.3	30.8	27.7	24.5	22	23.3	20.9	22.9	5/11/2021 7:31
6	8	50.7	91.3	54.6	44.6	40.2	35.4	32.1	28.2	24.8	22.8	23.3	20.9	22.9	5/11/2021 7:31
6	9	49.6	86.5	53.4	43.7	39.4	34.4	31	27.8	24.6	22.8	23.3	20.9	22.9	5/11/2021 7:31
6	10	49.6	87.2	53.2	43.6	39.2	34.3	30.6	27.4	24.2	22.2	23.3	20.9	22.9	5/11/2021 7:31
11	1	48.8	164	89.2	65	54.9	46.3	40.6	35.3	29.9	24.5	24.8	23.1	23.1	5/11/2021 9:12
11	2	49	166	89.5	65.5	55.3	46.6	39.6	34.7	29.8	23.1	24.8	23.1	23.1	5/11/2021 9:12
11	3	49.6	165	90.2	65.9	56	47.9	40.9	35.7	30.3	24.8	24.8	23.1	23.1	5/11/2021 9:12
11	4	49.4	163	89.5	66.5	55.9	47	40.5	35.7	30.3	27.4	24.8	23.1	23.1	5/11/2021 9:12
11	5	49.3	164	89.6	67	55.9	47.2	40.6	34.7	29.1	27.5	24.8	23.1	23.1	5/11/2021 9:12
11	6	49.5	165	90.1	67.8	56.2	48	41.9	35.8	30.4	25.6	24.8	23.1	23.1	5/11/2021 9:12
11	7	49.3	162	87.9	66.5	55.4	46.7	40.8	35	30.2	25.7	24.8	23.1	23.1	5/11/2021 9:12
11	8	49.7	163	88.3	66.8	55.7	47.8	41.5	35.6	30.3	25.6	24.8	23.1	23.1	5/11/2021 9:12
11	9	49.7	165	89.2	67.4	55.8	48.7	42.2	35.5	29.9	26.4	24.8	23.1	23.1	5/11/2021 9:12
11	10	49.3	163	87.6	66.3	55	46.3	40.1	34.4	28.7	24.7	24.8	23.1	23.1	5/11/2021 9:12
8	1	49.5	137	70.2	57.1	49.7	42.3	37.7	32.9	27.7	24.4	23.3	24.1	24.1	6/29/2021 9:17
8	2	49.3	135	70.9	58.1	50.2	42.6	37.2	32.6	27.5	23.8	23.3	24.1	24.1	6/29/2021 9:17
8	3	49.1	134	69.2	56.5	49.2	41.6	36.1	31.8	27.4	24.1	23.3	24.1	24.1	6/29/2021 9:17
8	4	49.3	137	71	57.4	50	42.4	37.2	32	26.9	24.8	23.3	24.1	24.1	6/29/2021 9:17
8	5	49.2	133	69.3	56.6	49.2	41.8	35.9	31.8	27.4	24.5	23.3	24.1	24.1	6/29/2021 9:17
8	6	49.4	139	70.4	57.6	50.3	42.7	37.2	32.2	27	24.6	23.3	24.1	24.1	6/29/2021 9:17
8	7	49.5	136	71.1	57.8	50.5	42.9	37.5	32.5	27.4	24.6	23.3	24.1	24.1	6/29/2021 9:17
8	8	49.1	139	70.4	57.1	50	42.4	37.4	32	27.3	24.4	23.3	24.1	24.1	6/29/2021 9:17
8	9	48.8	128	69	56.1	48.8	41.4	36.1	31.4	26.8	23.9	23.3	24.1	24.1	6/29/2021 9:17
8	10	49	131	69	55.9	49.3	41.7	36.3	32	26.7	25.1	23.3	24.1	24.1	6/29/2021 9:17
9	1	50.3	90.6	59.3	48.1	42.5	36.6	32.4	29.1	25.4	22.8	23.4	24.1	24.1	6/29/2021 9:17
9	2	49.5	87.7	57.7	46.8	41.7	36	31.9	28.9	25.1	22.6	23.4	24.1	24.1	6/29/2021 9:17
9	3	50	85.8	58	47.5	42	35.8	32.5	29.3	25.1	23.1	23.4	24.1	24.1	6/29/2021 9:17
9	4	49.2	87.5	56.9	46.5	40.9	35.3	32.1	28.4	22.6	23	23.4	24.1	24.1	6/29/2021 9:17
9	5	50	90	58.1	47.6	41.8	36.6	32.3	28.5	25.5	22.4	23.4	24.1	24.1	6/29/2021 9:17
9	6	50.1	86.7	58.8	47.9	42.1	37	32	28.8	25.3	22.8	23.4	24.1	24.1	6/29/2021 9:17
9	7	49.3	89.5	57.3	47.4	41.5	37.4	32.7	29.5	25.9	23.7	23.4	24.1	24.1	6/29/2021 9:17

9	8	49.1	88.6	56.7	46.5	40.9	36	31.5	28.4	24.8	22.7	23.4	24.1	24.1	6/29/2021 9:17
9	9	49.2	90.8	57.3	47.3	41.4	37.3	32.6	29	25.6	23.5	23.4	24.1	24.1	6/29/2021 9:17
9	10	49.2	85.2	56.4	46.3	40.6	36	31.9	28.3	24.8	22.6	23.4	24.1	24.1	6/29/2021 9:17
7	1	49.3	208	116	81.3	65.3	50.3	42.3	35.4	30.2	24.7	23.3	24.4	24.4	6/29/2021 9:16
7	2	49.4	208	115	80.9	65.5	50.4	42.3	34.2	29.7	25.5	23.3	24.4	24.4	6/29/2021 9:16
7	3	49	210	116	84.1	66.2	51.2	42.6	35.8	30.3	27	23.3	24.4	24.4	6/29/2021 9:16
7	4	48.9	206	114	82.2	65.4	49	41.5	35.8	31.3	28.6	23.3	24.4	24.4	6/29/2021 9:16
7	5	48.6	208	113	81.8	64.4	49	40.7	33.3	29.4	25.9	23.3	24.4	24.4	6/29/2021 9:16
7	6	48.5	204	112	80.5	64.6	47.8	40.3	33.6	31.4	28.5	23.3	24.4	24.4	6/29/2021 9:16
7	7	48.4	203	112	79.7	64.2	47.4	40.6	32.6	29.4	25.9	23.3	24.4	24.4	6/29/2021 9:16
7	8	48.6	206	112	80.3	64.8	48.6	40.9	32.8	30.3	25.9	23.3	24.4	24.4	6/29/2021 9:16
7	9	48.8	208	115	84	66.2	50	42.4	31.6	29.6	25.8	23.3	24.4	24.4	6/29/2021 9:16
7	10	49	206	115	82.1	65.8	49.2	42.7	33.1	30.4	26.6	23.3	24.4	24.4	6/29/2021 9:16
12	1	49.7	131	76.1	59.4	51.1	43.2	38	34	28.9	25.3	25	24.6	24.6	5/11/2021 9:13
12	2	49.5	128	75.8	59.3	50.7	42.9	36.8	32.3	27.9	24.7	25	24.6	24.6	5/11/2021 9:13
12	3	49.4	126	74.5	58.3	51.4	42.6	37.1	33.1	28.1	25	25	24.6	24.6	5/11/2021 9:13
12	4	49.8	127	75.4	59.2	49.6	42.8	37	32.1	27.6	24.3	25	24.6	24.6	5/11/2021 9:13
12	5	50.5	127	75.2	59.5	49	43.2	38.2	33.1	29	25.5	25	24.6	24.6	5/11/2021 9:13
12	6	49.9	129	75.1	59.6	48.6	43	37.1	33.4	28.5	25.3	25	24.6	24.6	5/11/2021 9:13
12	7	49.5	131	72.5	57.6	47.3	41.9	37.3	33.4	27.8	24.6	25	24.6	24.6	5/11/2021 9:13
12	8	49.8	108	73.9	58.8	50.4	42.7	37	33.6	28.1	25.4	25	24.6	24.6	5/11/2021 9:13
12	9	49.6	122	73.3	58	50.9	42.5	38.4	33	28.1	24.7	25	24.6	24.6	5/11/2021 9:13
12	10	50.4	128	73.9	58.7	51.2	42.9	38.4	33.3	28.2	24.9	25	24.6	24.6	5/11/2021 9:13
10	1	48.8	240	143	95.2	68.9	48.9	41	35.8	30.7	26.1	23.6	24.7	24.7	6/29/2021 9:19
10	2	48.5	238	142	97.1	68.4	49	40.5	35	29.5	26.3	23.6	24.7	24.7	6/29/2021 9:19
10	3	49.4	241	144	96.2	69.5	50.5	42	36.6	31.1	27.4	23.6	24.7	24.7	6/29/2021 9:19
10	4	48.6	235	141	94.9	68.3	50	42.1	35.6	30.4	26.7	23.6	24.7	24.7	6/29/2021 9:19
10	5	48.4	237	141	94.6	68.5	49.3	40.6	35	29.5	26.5	23.6	24.7	24.7	6/29/2021 9:19
10	6	48.3	237	140	94.5	68.8	49.2	41.5	34.6	29.1	25.4	23.6	24.7	24.7	6/29/2021 9:19
10	7	48.2	239	139	93.9	68.1	48.6	40.9	34	29.4	25.4	23.6	24.7	24.7	6/29/2021 9:19
10	8	48	234	139	93.7	68	48.4	40.5	33.6	29.7	25.1	23.6	24.7	24.7	6/29/2021 9:19
10	9	48.1	231	138	93.1	66.7	48.3	40.6	34.3	30.8	26.7	23.6	24.7	24.7	6/29/2021 9:19
10	10	48.1	236	140	94.8	69.4	50.4	42.8	33.7	29.6	25.1	23.6	24.7	24.7	6/29/2021 9:19
5	1	49.1	146	71.2	52.2	43.6	36.4	35.5	29.1	25.1	22.4	22.8	24.8	24.8	6/29/2021 9:14
5	2	48.9	146	71.5	52.3	43.5	36.5	34.3	28.8	24.7	22	22.8	24.8	24.8	6/29/2021 9:14
5	3	48.7	142	69.5	51.1	42.8	35.9	31.6	28.4	24.5	21.7	22.8	24.8	24.8	6/29/2021 9:14
5	4	49.7	145	70.8	52.7	44.3	38.4	35.3	30	25.7	22.5	22.8	24.8	24.8	6/29/2021 9:14
5	5	49.4	142	69.3	51.6	43.4	36.7	35.4	28.9	24.7	21.8	22.8	24.8	24.8	6/29/2021 9:14
5	6	49.5	143	70.5	52.6	44.2	37.5	36.1	29.5	25.4	22.5	22.8	24.8	24.8	6/29/2021 9:14
5	7	48.6	139	68.9	51.3	43.1	36.4	35.4	28.6	25.1	22.3	22.8	24.8	24.8	6/29/2021 9:14
5	8	48.5	138	67.8	50.7	42.8	36.1	35.8	28.8	25.4	22.6	22.8	24.8	24.8	6/29/2021 9:14
5	9	48.9	142	69.3	51.6	43.6	37.1	36.9	29.6	25.9	23.2	22.8	24.8	24.8	6/29/2021 9:14
5	10	48.6	141	67.7	50.8	42.5	35.5	35.3	28.3	25	22.1	22.8	24.8	24.8	6/29/2021 9:14
12	1	49.1	124	67.9	53.2	46.4	40.7	35.7	32.1	28	25	23.7	24.8	24.8	6/29/2021 9:20
12	2	48.6	119	65.3	51.6	45.3	38.9	34.3	31.4	27.1	24.2	23.7	24.8	24.8	6/29/2021 9:20
12	3	49.9	125	67.6	53	47	40.8	35.2	32.9	28.3	25.8	23.7	24.8	24.8	6/29/2021 9:20
12	4	48.7	123	65.8	51.8	45.9	40	34.8	31.9	27.6	23.9	23.7	24.8	24.8	6/29/2021 9:20
12	5	48.5	121	64.5	51.1	45.3	39.2	35.6	31.7	27.5	23.9	23.7	24.8	24.8	6/29/2021 9:20
12	6	48.9	124	66	52.2	46	40.4	35.8	31.5	27.6	24.2	23.7	24.8	24.8	6/29/2021 9:20
12	7	48.9	124	65.9	52	46.1	39.8	35.6	31.6	27.7	24.6	23.7	24.8	24.8	6/29/2021 9:20

12	8	48.9	122	65.2	51.7	46	40.6	35.7	32.1	29.5	24.9	23.7	24.8	24.8	6/29/2021 9:20
12	9	49.3	124	65.4	51.8	46	39.6	35.1	31.5	27.3	24.2	23.7	24.8	24.8	6/29/2021 9:20
12	10	48.9	124	65.8	52.1	46.1	40.3	35.2	31.8	27.9	25.1	23.7	24.8	24.8	6/29/2021 9:20
9	1	49.7	98.7	71.5	58.1	48.5	41.1	36.4	31.3	28.4	24	24.2	25.1	25.1	5/11/2021 9:10
9	2	50.7	107	72	59.1	49.8	41.4	36.3	31.5	27.6	23.8	24.2	25.1	25.1	5/11/2021 9:10
9	3	50.8	108	72.2	58.8	50.4	42	37.4	32.4	28	24.3	24.2	25.1	25.1	5/11/2021 9:10
9	4	49.9	106	70.2	57.1	49.1	40.9	35.7	32	27.5	24.1	24.2	25.1	25.1	5/11/2021 9:10
9	5	50.6	107	71	58	49.9	41.7	35.8	32.3	27.3	24.4	24.2	25.1	25.1	5/11/2021 9:10
9	6	50.2	105	70.7	57.5	49.8	42.2	36.1	34.2	28.6	25	24.2	25.1	25.1	5/11/2021 9:10
9	7	50.9	107	71	58.1	50.3	42	36.6	32.6	28.2	24.6	24.2	25.1	25.1	5/11/2021 9:10
9	8	49.8	104	69.2	56.6	48.9	40.9	35.3	31.9	27.2	24	24.2	25.1	25.1	5/11/2021 9:10
9	9	49.9	103	69.4	56.6	49.2	41.5	35.8	32.6	28.3	24.8	24.2	25.1	25.1	5/11/2021 9:10
9	10	50.1	106	71	58.2	49.8	41.9	35.4	31.4	28	24.1	24.2	25.1	25.1	5/11/2021 9:10
4	1	50.3	155	88	65.4	54	44.7	39.9	32.9	27.6	23.9	22.7	25.1	25.1	6/29/2021 9:13
4	2	49.2	150	84.7	63.4	52.6	43.7	38.5	32.1	26.9	24.2	22.7	25.1	25.1	6/29/2021 9:13
4	3	48.8	150	84.5	63.3	53	43.1	38.2	31.6	26.6	23	22.7	25.1	25.1	6/29/2021 9:13
4	4	49.9	152	85.6	64.3	54.1	44.6	39.8	32.3	27.5	23.9	22.7	25.1	25.1	6/29/2021 9:13
4	5	48.8	148	84	63.4	53.4	43.4	37.7	31.6	26.6	23	22.7	25.1	25.1	6/29/2021 9:13
4	6	49.9	148	83.8	63.7	53.4	43.6	38.2	31.8	27.3	23.7	22.7	25.1	25.1	6/29/2021 9:13
4	7	49.9	155	85.1	64.6	54.4	44.8	40.1	32.3	27.3	23.6	22.7	25.1	25.1	6/29/2021 9:13
4	8	49	150	84.9	64.1	53.8	43.6	38	31.9	26.8	23.5	22.7	25.1	25.1	6/29/2021 9:13
4	9	49	151	84.3	63.7	53.4	43.7	38.5	31.8	26.9	23.3	22.7	25.1	25.1	6/29/2021 9:13
4	10	48.6	152	82.5	62.2	52.1	42.1	36.3	30.6	25.7	22.3	22.7	25.1	25.1	6/29/2021 9:13
6	1	49.4	83.9	48.2	40.4	36.9	32.9	30.4	26.7	23.2	20.5	23	25.2	25.2	6/29/2021 9:14
6	2	49.2	80.9	46.8	39.6	36.2	32	29.5	26.2	23.1	20.1	23	25.2	25.2	6/29/2021 9:14
6	3	50.4	83.2	48.5	40.9	37.5	33.3	31.2	27.2	24.1	21.4	23	25.2	25.2	6/29/2021 9:14
6	4	49.3	80.2	47.1	39.7	36.2	32	28.8	26	23.1	21.2	23	25.2	25.2	6/29/2021 9:14
6	5	49.2	79.1	46.3	39.5	36.2	32.1	28.6	26.1	23.8	21.6	23	25.2	25.2	6/29/2021 9:14
6	6	49.4	79.9	47.2	39.9	36.6	32.6	30.7	26.2	21.1	21.5	23	25.2	25.2	6/29/2021 9:14
6	7	50	81.2	48.1	40.7	37.3	33	31	26.7	23.3	21.3	23	25.2	25.2	6/29/2021 9:14
6	8	49.1	80.8	47.2	40.2	36.8	33.4	30.3	26.7	23.4	21.6	23	25.2	25.2	6/29/2021 9:14
6	9	49.2	81.3	47.3	40.2	36.8	33.2	30.1	26.3	23.1	21.6	23	25.2	25.2	6/29/2021 9:14
6	10	49.1	81.3	46.7	39.8	36.2	32	29.5	26	23.1	20.8	23	25.2	25.2	6/29/2021 9:14
11	1	48.7	156	83.4	61.6	51.5	44.9	39.6	33.9	31.6	25.5	23.8	25.5	25.5	6/29/2021 9:19
11	2	48.9	154	84.3	62.3	53.2	45.8	40	34.2	31.9	25.7	23.8	25.5	25.5	6/29/2021 9:19
11	3	48.7	157	82.5	61.4	52	44.7	39.4	33.8	30.7	25.3	23.8	25.5	25.5	6/29/2021 9:19
11	4	48.8	155	83.3	62.2	52.9	46.3	40.2	34.5	31.1	26.2	23.8	25.5	25.5	6/29/2021 9:19
11	5	48.5	154	80.7	60.6	50.6	44.6	39	33.7	29.9	25.5	23.8	25.5	25.5	6/29/2021 9:19
11	6	48.8	155	82.5	61.9	53.4	46.6	40.6	35	31.3	26.9	23.8	25.5	25.5	6/29/2021 9:19
11	7	48.7	158	82.3	61.7	54.3	46.5	40.1	34.6	30.6	26.4	23.8	25.5	25.5	6/29/2021 9:19
11	8	48.7	157	82.5	62.1	54.5	46.5	40.4	35.2	29.9	26.7	23.8	25.5	25.5	6/29/2021 9:19
11	9	49.3	155	81.9	61.7	51.8	44.8	39	33.8	28.4	25.5	23.8	25.5	25.5	6/29/2021 9:19
11	10	49.4	157	83.2	62.8	54.6	46.4	40.1	34.7	29.1	26.1	23.8	25.5	25.5	6/29/2021 9:19
8	1	49.7	153	82	64.2	55.4	46.9	41.8	35.7	29.8	25.5	24.2	25.7	25.7	5/11/2021 9:09
8	2	49.6	150	80.8	63.5	55	46.5	41.3	35.4	29.6	25.5	24.2	25.7	25.7	5/11/2021 9:09
8	3	50.1	153	82	64.5	55.8	47.1	41.9	35.9	30	25.9	24.2	25.7	25.7	5/11/2021 9:09
8	4	49.9	149	79.9	63.3	54.4	45.8	40.4	35.1	29.5	25.3	24.2	25.7	25.7	5/11/2021 9:09
8	5	50.1	156	81.6	64.4	55.5	46.9	41.3	35.1	29.3	25.2	24.2	25.7	25.7	5/11/2021 9:09
8	6	50.8	155	81.5	64.7	55.6	47	41.5	35.3	29.5	25.4	24.2	25.7	25.7	5/11/2021 9:09
8	7	49.9	148	79.6	63	54.5	46.8	41.5	34.8	29.3	25.9	24.2	25.7	25.7	5/11/2021 9:09

8	8	50	151	81.4	64.5	55.5	47.7	42	35.1	29.9	25.5	24.2	25.7	25.7	5/11/2021 9:09
8	9	50.1	152	80.8	64.2	55.7	48.1	43	35.4	30.4	26.5	24.2	25.7	25.7	5/11/2021 9:09
8	10	50.4	148	81.6	64.7	55.6	47.7	42.2	34.2	29.7	25.4	24.2	25.7	25.7	5/11/2021 9:09
6	1	50.5	89.8	56.1	46	41.2	36.3	32.3	29.2	25.3	22.4	23	25.9	25.9	5/11/2021 9:08
6	2	50.3	87.8	54.3	44.8	40.2	34.3	31.1	28.7	24.5	21.4	23	25.9	25.9	5/11/2021 9:08
6	3	51.5	91.2	56.3	46.8	42.3	37.5	33.4	29.6	25.8	22.8	23	25.9	25.9	5/11/2021 9:08
6	4	50.1	91.6	54.4	45.2	40.5	34.7	31.4	29	25.1	22.2	23	25.9	25.9	5/11/2021 9:08
6	5	50.3	89.6	54.5	45.2	40.8	35	31.8	28.7	26.4	22	23	25.9	25.9	5/11/2021 9:08
6	6	50.8	84.5	55.2	45.8	41.5	37.8	31.7	28.9	25.2	22.3	23	25.9	25.9	5/11/2021 9:08
6	7	49.9	95.2	53.9	44.7	40.6	34.9	31.4	28.4	24.6	21.6	23	25.9	25.9	5/11/2021 9:08
6	8	49.8	100	53	44.6	40.1	34.6	31.1	28.1	24.7	21.9	23	25.9	25.9	5/11/2021 9:08
6	9	49.7	85.8	53	44.5	40.1	34.1	31.3	28.2	24.4	21.8	23	25.9	25.9	5/11/2021 9:08
6	10	49.9	90.1	52.8	44.6	40	33.8	31.7	28.6	24.9	21.9	23	25.9	25.9	5/11/2021 9:08
11	1	48.9	164	78.8	59.8	51.5	44.4	38.7	34	29	25.3	22.7	24.4	26.4	6/29/2021 7:26
11	2	48.5	154	76.7	58.6	50.4	43.4	37.8	33.3	28.3	24.7	22.7	24.4	26.4	6/29/2021 7:26
11	3	48.8	163	78.6	59.8	51.7	44.5	38.7	33.9	29.2	25.9	22.7	24.4	26.4	6/29/2021 7:26
11	4	48.8	160	76.9	59	50.6	43.4	37.4	33.1	28.6	25.4	22.7	24.4	26.4	6/29/2021 7:26
11	5	48.8	153	77.7	59.3	51.2	43.7	37.5	32.8	28.2	24.1	22.7	24.4	26.4	6/29/2021 7:26
11	6	48.8	154	78	59.8	51.6	44.5	38.6	33.8	29.2	26.5	22.7	24.4	26.4	6/29/2021 7:26
11	7	48.7	154	76.2	59.2	50.9	43.8	37.6	33.4	28.6	25.5	22.7	24.4	26.4	6/29/2021 7:26
11	8	48.8	160	77.1	60	51.1	44	37.7	33.1	28.7	25.6	22.7	24.4	26.4	6/29/2021 7:26
11	9	48.9	165	78.4	60.3	51.7	44.5	38	33.4	29	25.8	22.7	24.4	26.4	6/29/2021 7:26
11	10	48.9	157	76.3	59.2	50.8	43.9	37.6	33.5	28.9	25.5	22.7	24.4	26.4	6/29/2021 7:26
12	1	48.9	119	63.7	50.4	44.7	39.1	35.3	30.8	26.8	23.5	22.7	24.5	26.5	6/29/2021 7:26
12	2	48.9	115	61.8	50.1	44.2	37	33.2	30.6	26.7	25	22.7	24.5	26.5	6/29/2021 7:26
12	3	49.2	116	63.4	50.7	44.8	41.2	37.9	32	26.5	24.2	22.7	24.5	26.5	6/29/2021 7:26
12	4	49.1	115	62.4	50.1	43.3	37.2	35.5	30.7	28.3	23.7	22.7	24.5	26.5	6/29/2021 7:26
12	5	48.8	115	61.9	49.6	43.2	37.6	34.1	30.5	27.6	23.7	22.7	24.5	26.5	6/29/2021 7:26
12	6	49	114	61.5	49.9	43.8	38.3	34.6	30.6	27.7	24.4	22.7	24.5	26.5	6/29/2021 7:26
12	7	49.2	114	61.4	50.2	44.2	37.5	30.5	30.5	29.6	24.9	22.7	24.5	26.5	6/29/2021 7:26
12	8	49.1	117	62	50.7	44.9	39.5	35.1	31	27	24.4	22.7	24.5	26.5	6/29/2021 7:26
12	9	49.2	116	62.7	50.7	44.7	39.6	35.7	31	28.3	24.1	22.7	24.5	26.5	6/29/2021 7:26
12	10	49	115	61.8	50	44	38.3	34.1	30.5	27.7	23.9	22.7	24.5	26.5	6/29/2021 7:26
7	1	49.2	211	112	81.3	64.1	49.7	41.7	36	30.5	25.9	22.2	24.8	26.8	6/29/2021 7:22
7	2	49	209	112	81.2	64.5	50	41.9	36.4	30.8	25.3	22.2	24.8	26.8	6/29/2021 7:22
7	3	49	209	111	80.9	64.5	50.3	42.1	37	31	27.8	22.2	24.8	26.8	6/29/2021 7:22
7	4	49.1	204	111	80.9	64.3	50.4	42.2	35.7	30	27.3	22.2	24.8	26.8	6/29/2021 7:22
7	5	49	207	110	80.3	63.9	48.8	40.9	34.8	29.1	27	22.2	24.8	26.8	6/29/2021 7:22
7	6	49	205	110	80.2	63.8	48.9	41.2	34.3	29.6	28.8	22.2	24.8	26.8	6/29/2021 7:22
7	7	49.3	207	111	81.3	64.8	50.5	42.7	35.8	31	27.2	22.2	24.8	26.8	6/29/2021 7:22
7	8	49	203	110	80.3	63.9	49	40.6	32.1	29.1	25.2	22.2	24.8	26.8	6/29/2021 7:22
7	9	48.8	202	109	79.6	63.3	48.5	39.6	32	30.2	25.9	22.2	24.8	26.8	6/29/2021 7:22
7	10	49	205	110	77.2	63.9	50.4	43	36.8	30.3	27.2	22.2	24.8	26.8	6/29/2021 7:22
8	1	49.4	145	72.2	58.4	50.5	43	38.3	32.7	28.5	24.6	22.3	25	27	6/29/2021 7:22
8	2	49.4	143	71.9	58.3	50.6	43.1	38.3	33	28.2	25	22.3	25	27	6/29/2021 7:22
8	3	49.3	140	70.3	57.2	49.5	41.6	36.1	31.8	27.6	24.1	22.3	25	27	6/29/2021 7:22
8	4	49.2	142	70.1	57.4	49.6	41.1	35.1	30.6	27.4	24.2	22.3	25	27	6/29/2021 7:22
8	5	49.5	141	70.8	58	50.3	42.4	36.2	31.9	29.2	25	22.3	25	27	6/29/2021 7:22
8	6	49	137	69.6	56.6	49.3	41.2	36.8	31.8	27.3	23.8	22.3	25	27	6/29/2021 7:22
8	7	49.4	142	71.1	57.7	50.4	42.6	39	32.3	27.7	24.3	22.3	25	27	6/29/2021 7:22

8	8	49.4	140	70.8	57.4	50.3	43	40	32.9	28.2	24.7	22.3	25	27	6/29/2021 7:22
8	9	49.1	140	69.8	56.6	49.8	41.7	39.7	31.8	27.6	24.3	22.3	25	27	6/29/2021 7:22
8	10	49.1	143	71.1	57.3	50.3	43.7	39.6	32.1	27.4	24	22.3	25	27	6/29/2021 7:22
6	1	49.6	84.2	47.5	41.6	37.3	33	29.8	27.4	24.7	21.3	22.4	25.1	27.1	6/29/2021 7:20
6	2	49.2	81.6	46.9	40.9	36.5	31	28.1	26.3	24	20.4	22.4	25.1	27.1	6/29/2021 7:20
6	3	49.4	81.6	46.6	41	36.8	32.3	28.5	26.9	24.5	20.9	22.4	25.1	27.1	6/29/2021 7:20
6	4	49.1	81.6	46.8	40.9	36.3	31.9	28.5	26.4	23.8	20.7	22.4	25.1	27.1	6/29/2021 7:20
6	5	49.1	81.3	46.2	40.5	36.6	31.4	28.2	26.5	23.9	20.4	22.4	25.1	27.1	6/29/2021 7:20
6	6	49.3	81.8	46.7	40.6	36.6	33.1	28.7	26.9	24.7	21	22.4	25.1	27.1	6/29/2021 7:20
6	7	49.2	77.5	45.8	40.2	36.5	31	28	26.3	23.6	20.3	22.4	25.1	27.1	6/29/2021 7:20
6	8	49.3	81	46.3	40.4	36.1	31.8	29	27.2	24.1	21.3	22.4	25.1	27.1	6/29/2021 7:20
6	9	49.3	80.1	45.9	40.2	35.4	31.1	27.2	26.1	23.4	20.6	22.4	25.1	27.1	6/29/2021 7:20
6	10	49.2	80.7	46.5	40.4	35.9	32	27.6	26.8	24.1	21	22.4	25.1	27.1	6/29/2021 7:20
5	1	49.3	144	67.1	50.4	43	36.7	33.6	29	25.8	22.4	22.5	25.2	27.2	6/29/2021 7:19
5	2	49.2	141	66	49.8	42.3	36.3	33.5	28.8	25.9	22.6	22.5	25.2	27.2	6/29/2021 7:19
5	3	49.1	140	65.8	49.6	42.2	36	33.1	28.4	25.3	21.8	22.5	25.2	27.2	6/29/2021 7:19
5	4	49.2	141	66.3	50.1	42.7	36.3	33.2	28.5	25.2	22	22.5	25.2	27.2	6/29/2021 7:19
5	5	49.1	138	66	49.9	42.5	36	33.3	28.5	25	21.7	22.5	25.2	27.2	6/29/2021 7:19
5	6	49.3	139	66.7	50.5	43	36.4	33.8	28.9	25.5	22.7	22.5	25.2	27.2	6/29/2021 7:19
5	7	49.3	137	65.5	49.7	42.3	36	33.1	28.5	27.2	22	22.5	25.2	27.2	6/29/2021 7:19
5	8	52.9	147	70.1	53.4	45.6	38.7	35.6	30.9	26.4	24	22.5	25.2	27.2	6/29/2021 7:19
5	9	49.2	136	65.4	49.7	42.1	36	32.9	29	25.5	21.8	22.5	25.2	27.2	6/29/2021 7:19
5	10	49.1	139	66	49.9	42.7	36.1	33.2	28.6	24.8	22.1	22.5	25.2	27.2	6/29/2021 7:19
10	1	48.2	236	136	95.3	69.3	49.1	41.5	35.2	29.8	26.3	23	25.4	27.4	6/29/2021 7:25
10	2	48.2	231	134	93.6	69	48.3	41.7	35.6	30.4	26.4	23	25.4	27.4	6/29/2021 7:25
10	3	48.1	231	136	94.9	69.4	49.4	41.6	35.4	30.5	25.8	23	25.4	27.4	6/29/2021 7:25
10	4	48.1	232	136	94.6	69.3	49.1	41.2	35.1	28.6	25.7	23	25.4	27.4	6/29/2021 7:25
10	5	48	227	135	93.5	69	48.7	41.9	35.9	31	27.3	23	25.4	27.4	6/29/2021 7:25
10	6	48.4	230	138	95	69.6	49.5	42	35.3	28.7	25.6	23	25.4	27.4	6/29/2021 7:25
10	7	48.1	229	137	94.6	69.1	48.9	40.9	35.3	29	25.6	23	25.4	27.4	6/29/2021 7:25
10	8	48.3	229	137	94.5	69.4	49.9	41	35.7	29.6	26.4	23	25.4	27.4	6/29/2021 7:25
10	9	48.1	228	137	94.5	69.7	50.3	40.8	35.8	32.4	27	23	25.4	27.4	6/29/2021 7:25
10	10	48.2	223	135	93.2	68.6	47.2	41.2	35.1	30.6	27.4	23	25.4	27.4	6/29/2021 7:25
9	1	49.2	92.6	58.5	48.4	43	37.2	32.9	28.4	25.7	23.1	22.5	25.5	27.5	6/29/2021 7:23
9	2	49.2	90.3	57.4	47.9	42.7	36.7	32.4	28.2	26.2	23.1	22.5	25.5	27.5	6/29/2021 7:23
9	3	49.2	91.4	58.3	48.4	43.2	37.8	33.7	29.1	26.4	24.1	22.5	25.5	27.5	6/29/2021 7:23
9	4	49.1	90.3	57.2	47.6	42.5	36.7	32.3	28	25.4	22.9	22.5	25.5	27.5	6/29/2021 7:23
9	5	48.9	90.4	56.8	47.1	42.4	35.6	31.3	28.5	26.1	22	22.5	25.5	27.5	6/29/2021 7:23
9	6	49.3	91.3	57.4	48	42.7	37.3	33.4	28.6	25.6	22.7	22.5	25.5	27.5	6/29/2021 7:23
9	7	49	90.9	57.1	48	42.6	36.3	32.8	28.7	25.4	22.3	22.5	25.5	27.5	6/29/2021 7:23
9	8	49.2	90.7	58	48.8	43.1	37.2	32.8	28.8	25.4	22.2	22.5	25.5	27.5	6/29/2021 7:23
9	9	49	90.2	56.6	46.9	42.4	35.9	32	28.7	25.8	22.3	22.5	25.5	27.5	6/29/2021 7:23
9	10	49.2	89.6	56.9	47.8	42.4	38	32.7	28.9	25.3	22.8	22.5	25.5	27.5	6/29/2021 7:23
4	1	49.2	152	83.1	61.4	51	41.8	36.6	31.8	27.6	23.4	22.7	25.6	27.6	6/29/2021 7:18
4	2	49.1	151	83.5	61.7	51.3	41.4	36.4	31.9	27.7	24	22.7	25.6	27.6	6/29/2021 7:18
4	3	49	147	81.9	60.6	50.6	40.7	36	31.1	27.2	24	22.7	25.6	27.6	6/29/2021 7:18
4	4	49	149	82.3	61	50.8	40.7	36.1	31.7	27.1	24	22.7	25.6	27.6	6/29/2021 7:18
4	5	49.4	150	82.9	61.5	50.9	43	37.6	31.8	27.1	23.7	22.7	25.6	27.6	6/29/2021 7:18
4	6	49.2	147	81.5	60.9	50.7	41.6	36.3	31	26.2	22.8	22.7	25.6	27.6	6/29/2021 7:18
4	7	49.3	149	82.8	62.1	52.2	43.3	37.6	31.8	27.4	23.6	22.7	25.6	27.6	6/29/2021 7:18

4	8	49.3	150	83	62.1	52.5	43	37.6	31.7	26.9	23.4	22.7	25.6	27.6	6/29/2021 7:18
4	9	49.1	147	81.8	61.2	50.4	42.4	37.3	31.6	27.1	23.9	22.7	25.6	27.6	6/29/2021 7:18
4	10	49.2	150	82.4	61.8	52.1	42.9	36.3	31.3	26.2	23.4	22.7	25.6	27.6	6/29/2021 7:18
5	1	50	164	77.5	55.4	45.7	38.5	34.6	30.1	25.8	22.5	23.9	30.1	28.1	4/30/2021 12:09
5	2	50.1	165	77.8	56.9	45.8	38.7	35.5	30.3	23.7	22.6	23.9	30.1	28.1	4/30/2021 12:09
5	3	50.3	164	76	55.7	45.4	38.4	34.8	30.2	26	22.5	23.9	30.1	28.1	4/30/2021 12:09
5	4	51.2	162	77.8	56.7	47	40	36.1	31.4	26.4	23.2	23.9	30.1	28.1	4/30/2021 12:09
5	5	50.6	162	76.3	55.4	46.8	39.5	35.6	30.8	26.2	22.8	23.9	30.1	28.1	4/30/2021 12:09
5	6	50.7	164	76.4	55.5	46.3	39.6	35.8	30.9	26.5	23.3	23.9	30.1	28.1	4/30/2021 12:09
5	7	51.6	164	76.1	56	46.1	40.2	35.8	31.5	26.9	23.9	23.9	30.1	28.1	4/30/2021 12:09
5	8	51.5	173	77.4	56.3	47.9	40.2	36.3	31.5	26.3	23.2	23.9	30.1	28.1	4/30/2021 12:09
5	9	50.8	171	76.7	55.8	46.8	39.8	36.9	31.4	26.9	23.3	23.9	30.1	28.1	4/30/2021 12:09
5	10	50.7	162	75.6	55.3	46.4	39.6	36.6	31.4	26.3	23.2	23.9	30.1	28.1	4/30/2021 12:09
4	1	50.2	174	98.9	72.7	57.9	46.3	40.5	33.6	28.7	24.2	23.9	32.2	30.2	4/30/2021 12:08
4	2	51	177	101	74	60.2	47.7	41.7	34.3	29.3	24.3	23.9	32.2	30.2	4/30/2021 12:08
4	3	50.9	176	99	72.9	59.8	47.7	42	34.5	28.6	24.4	23.9	32.2	30.2	4/30/2021 12:08
4	4	51	173	98.6	72.8	60.1	47.5	41	34.9	28.8	25.2	23.9	32.2	30.2	4/30/2021 12:08
4	5	50.3	174	96.6	71.4	58.8	47	40.7	33.5	28.4	24.9	23.9	32.2	30.2	4/30/2021 12:08
4	6	50.4	172	97.2	72.2	58.8	46.9	40.3	33.3	27.6	23.8	23.9	32.2	30.2	4/30/2021 12:08
4	7	50.7	172	98.1	72.9	59.8	47.9	42.1	34.6	28.6	25	23.9	32.2	30.2	4/30/2021 12:08
4	8	50.5	180	98.1	72.9	59.8	47.6	41.2	33.8	25.9	24.3	23.9	32.2	30.2	4/30/2021 12:08
4	9	50.5	174	95.8	71.2	58.6	46.6	40.7	33.3	27.7	24.4	23.9	32.2	30.2	4/30/2021 12:08
4	10	51.3	176	98.4	73.4	60.3	48	41.6	33.9	27.7	24.4	23.9	32.2	30.2	4/30/2021 12:08
11	1	49.7	173	85.6	65	54	46.4	39.7	34.4	29.1	24.7	25.7	32.4	30.4	4/30/2021 12:16
11	2	51.1	182	87.1	66.8	55.9	49.1	41.5	36.3	30.9	26.1	25.7	32.4	30.4	4/30/2021 12:16
11	3	49.8	167	84.9	64.5	54.4	45.6	39.7	35.2	30.1	25.4	25.7	32.4	30.4	4/30/2021 12:16
11	4	49.6	157	83.7	63.9	54.1	45.7	39.7	36	30.1	25.8	25.7	32.4	30.4	4/30/2021 12:16
11	5	49.9	177	84	64	54.6	47.2	40.6	36.3	30.5	26.1	25.7	32.4	30.4	4/30/2021 12:16
11	6	50	167	86	65	55.3	47.1	40.4	35.8	29.9	25.8	25.7	32.4	30.4	4/30/2021 12:16
11	7	49.8	161	83.6	63.7	54.3	46	39.8	35.7	30.2	25.9	25.7	32.4	30.4	4/30/2021 12:16
11	8	50.3	166	84.6	64.4	55.2	48	40.8	36.3	30.9	26.2	25.7	32.4	30.4	4/30/2021 12:16
11	9	50.1	181	85.4	64.8	55.2	47.9	40.6	36.2	30.2	25.7	25.7	32.4	30.4	4/30/2021 12:16
11	10	50.9	184	86.2	65.6	56	48.9	41.2	36.5	30.6	26.1	25.7	32.4	30.4	4/30/2021 12:16
9	1	49.9	92.3	58.1	48	42.8	38.4	33.7	29.4	25.9	24	31.6	31.7	30.7	6/29/2021 11:38
9	2	50.2	91.4	58.6	48.4	43.2	38.8	34.1	30.3	27.3	23.8	31.6	31.7	30.7	6/29/2021 11:38
9	3	49.2	90.4	57.1	47.2	42	37.3	32.7	28.9	25.7	22.5	31.6	31.7	30.7	6/29/2021 11:38
9	4	50.1	90.5	58.1	48.2	43	39.1	34.3	30.1	26.6	23.5	31.6	31.7	30.7	6/29/2021 11:38
9	5	50.9	91.4	58.9	49	43.8	39	34.5	30.3	26.8	23.7	31.6	31.7	30.7	6/29/2021 11:38
9	6	50.3	90.9	58.2	48.2	43	39	34.1	29.7	26.7	23.1	31.6	31.7	30.7	6/29/2021 11:38
9	7	50.3	91	57.5	47.9	42.8	37.9	33.4	29.7	26	23.5	31.6	31.7	30.7	6/29/2021 11:38
9	8	50.2	91.5	58.3	48.4	43.2	39.4	34.4	30.3	26.8	23.5	31.6	31.7	30.7	6/29/2021 11:38
9	9	50.8	93.1	58.8	48.8	43.7	38.8	34	30	26.5	23.4	31.6	31.7	30.7	6/29/2021 11:38
9	10	50.2	91.9	58.1	48.4	43.3	38	33.9	30.3	26.8	23.7	31.6	31.7	30.7	6/29/2021 11:38
6	1	50.7	89.8	52.5	43.8	40	35.6	31.8	28.4	24.9	22	23.9	33.1	31.1	4/30/2021 12:11
6	2	50.4	89.1	51.6	43.4	39.5	34.7	31.4	27.7	24.2	21.4	23.9	33.1	31.1	4/30/2021 12:11
6	3	50.6	90.4	52.2	43.7	39.9	35.4	31.2	27.9	24.4	21.4	23.9	33.1	31.1	4/30/2021 12:11
6	4	51.4	87	52.5	44.2	40.3	35.2	31.5	28.3	24.7	21.8	23.9	33.1	31.1	4/30/2021 12:11
6	5	50.5	91.4	50.7	42.9	39.2	34.2	30.4	27.3	23.7	21.4	23.9	33.1	31.1	4/30/2021 12:11
6	6	51	89.2	52.4	43.9	40	35.7	31.7	28.4	24.9	22	23.9	33.1	31.1	4/30/2021 12:11
6	7	51.6	89.9	51.9	43.8	40	35.1	31.1	28.3	25.1	22.2	23.9	33.1	31.1	4/30/2021 12:11

6	8	50.7	96.9	50.8	43	39.3	35	31.3	28.2	24.6	21.5	23.9	33.1	31.1	4/30/2021 12:11
6	9	50.6	92.7	50.5	42.6	38.9	34.5	30.6	27.8	24.1	21.3	23.9	33.1	31.1	4/30/2021 12:11
6	10	51.7	88.8	52.1	44	40	35.7	31.7	28.8	25	22.1	23.9	33.1	31.1	4/30/2021 12:11
8	1	50.2	154	78.5	63.2	54.9	47.1	40.5	34.8	27.1	25.4	24.8	34.1	32.1	4/30/2021 12:13
8	2	49.9	150	76.3	61.9	54.2	45.2	38.3	35.8	26.6	26.2	24.8	34.1	32.1	4/30/2021 12:13
8	3	50.4	153	77.9	63	55.9	46.8	40.5	34.9	33.7	25.5	24.8	34.1	32.1	4/30/2021 12:13
8	4	50.4	152	77.8	63.1	55.7	46.3	40.2	34.7	30.4	25.4	24.8	34.1	32.1	4/30/2021 12:13
8	5	49.9	151	76.2	62.1	54.5	44.6	39	33.8	28.9	25	24.8	34.1	32.1	4/30/2021 12:13
8	6	50.5	153	78	63.3	55.9	46.3	39.8	34.3	29.2	25.6	24.8	34.1	32.1	4/30/2021 12:13
8	7	50.3	153	77	62.7	55.2	45.2	39.2	33.6	28.9	25.1	24.8	34.1	32.1	4/30/2021 12:13
8	8	50.7	151	77.5	63.4	55.9	46.6	40.3	34.6	30	25.8	24.8	34.1	32.1	4/30/2021 12:13
8	9	50.6	152	77.8	63.4	56	46.8	40.7	34.8	29.5	25.5	24.8	34.1	32.1	4/30/2021 12:13
8	10	50.3	155	77.6	62.8	55.5	45.5	39.5	33.6	28.9	24.6	24.8	34.1	32.1	4/30/2021 12:13
12	1	49.9	127	72.4	56.4	48.6	40.8	35.9	32.5	28.6	26.1	25.5	34.1	32.1	4/30/2021 12:16
12	2	51.2	132	74.2	56.8	50.2	42.9	38.6	33.5	29.3	25.7	25.5	34.1	32.1	4/30/2021 12:16
12	3	50.8	128	73.9	56.3	49.8	42.4	37.8	33	28.7	25.3	25.5	34.1	32.1	4/30/2021 12:16
12	4	50	127	72	55.4	48.7	41.4	36.3	32.2	28	25.1	25.5	34.1	32.1	4/30/2021 12:16
12	5	50.9	128	73.8	57.2	49.8	42.5	37.2	33.3	29.7	25.8	25.5	34.1	32.1	4/30/2021 12:16
12	6	50.2	129	73.4	56.9	49.6	42.5	37.2	33.1	28.8	25.3	25.5	34.1	32.1	4/30/2021 12:16
12	7	50.3	132	73.6	57.2	49.8	42.8	37.6	33.3	29.6	25.6	25.5	34.1	32.1	4/30/2021 12:16
12	8	50.1	130	73.6	57	49.5	42.6	37.2	32.9	29.4	25.2	25.5	34.1	32.1	4/30/2021 12:16
12	9	50.1	129	73.7	57.1	49.5	42.6	37.3	33.2	29.4	25.5	25.5	34.1	32.1	4/30/2021 12:16
12	10	49.9	127	71.1	56	48.6	42.2	37.4	33	29.8	24.5	25.5	34.1	32.1	4/30/2021 12:16
11	1	49.8	166	84.5	62.2	54.1	47.7	41.7	36.3	31.2	26.9	31.4	33.1	32.1	6/29/2021 11:40
11	2	49.6	162	82.7	61.6	53.3	46.6	40.5	35.4	29.4	26.2	31.4	33.1	32.1	6/29/2021 11:40
11	3	49.8	165	83.9	62.5	54	47.2	41.1	35.9	30.6	26.2	31.4	33.1	32.1	6/29/2021 11:40
11	4	48.8	160	81.8	60.7	52.6	46.2	40	34.9	29.9	26.2	31.4	33.1	32.1	6/29/2021 11:40
11	5	49.6	163	83.2	61.7	53.3	46.6	40.1	34.8	30.7	25.6	31.4	33.1	32.1	6/29/2021 11:40
11	6	50.2	165	84.4	62.8	54.4	47.5	41.1	35.8	30.6	25.1	31.4	33.1	32.1	6/29/2021 11:40
11	7	49.8	167	84.2	62.7	54.2	47.4	41.2	35.8	30.7	25.8	31.4	33.1	32.1	6/29/2021 11:40
11	8	49.5	163	82.9	61.7	53.4	46.6	40.4	35	29.6	25.7	31.4	33.1	32.1	6/29/2021 11:40
11	9	49.7	168	84.5	63	54.4	47.6	41.5	36	31	27	31.4	33.1	32.1	6/29/2021 11:40
11	10	49.4	163	83.4	62.1	53.7	46.7	40.6	35.1	30.1	25.9	31.4	33.1	32.1	6/29/2021 11:40
10	1	49.7	271	158	104	70	47.8	41	34.4	28.2	26.1	25.2	34.4	32.4	4/30/2021 12:15
10	2	50.5	273	158	104	71.5	49.1	41.1	35.5	27.8	26.1	25.2	34.4	32.4	4/30/2021 12:15
10	3	49.9	274	156	103	71	49.1	41.1	35.5	28.6	27.3	25.2	34.4	32.4	4/30/2021 12:15
10	4	49.5	274	155	103	70.2	47.7	40.3	34.3	27.2	25.6	25.2	34.4	32.4	4/30/2021 12:15
10	5	50.8	280	157	105	72.6	50.7	43.3	36.5	29	27.7	25.2	34.4	32.4	4/30/2021 12:15
10	6	50.1	277	156	104	71.4	49.9	42	34.3	28.3	26.9	25.2	34.4	32.4	4/30/2021 12:15
10	7	49.7	280	155	103	70.4	49.1	42.1	30.6	28.3	25.5	25.2	34.4	32.4	4/30/2021 12:15
10	8	50	270	155	103	70.8	49.1	42.6	34.7	30.1	27.2	25.2	34.4	32.4	4/30/2021 12:15
10	9	49.4	272	154	102	70.3	48.4	41.2	34.4	28.7	25.7	25.2	34.4	32.4	4/30/2021 12:15
10	10	50	275	154	103	70.6	48.8	42	34.6	29.5	26.7	25.2	34.4	32.4	4/30/2021 12:15
12	1	49	119	64.2	50.9	45.6	41.1	36.5	31.9	27.7	23.7	31	33.9	32.9	6/29/2021 11:41
12	2	49.5	122	64.2	51.3	46	40.7	36.5	32	28.1	23.9	31	33.9	32.9	6/29/2021 11:41
12	3	49.8	120	64.4	51.2	46.2	41.1	37.1	32.2	28.1	24.1	31	33.9	32.9	6/29/2021 11:41
12	4	49.7	121	64.3	50.5	46.2	40.8	36.7	31.9	28	23.6	31	33.9	32.9	6/29/2021 11:41
12	5	50.5	123	65.3	49.7	46.8	41.7	37.7	33.1	28.3	24.2	31	33.9	32.9	6/29/2021 11:41
12	6	49.8	120	64.1	48.2	46.2	40.8	36.9	31.5	27.8	23.8	31	33.9	32.9	6/29/2021 11:41
12	7	49.6	122	64.2	48.2	45.9	40.6	36.8	31.9	28.2	23.5	31	33.9	32.9	6/29/2021 11:41

12	8	50.2	122	64.5	48.6	46.2	40.7	36.8	31.7	28.2	23.6	31	33.9	32.9	6/29/2021 11:41
12	9	50.5	123	65.9	49.4	47.3	42.5	38	33.4	29.1	24.8	31	33.9	32.9	6/29/2021 11:41
12	10	50.3	122	64.7	48.7	46.6	41	37.1	32	28.6	24	31	33.9	32.9	6/29/2021 11:41
9	1	51.2	104	63.9	50	44.2	39.5	35.5	30.1	26.7	23.5	25.5	35.1	33.1	4/30/2021 12:14
9	2	50.5	103	63.7	50	44.5	39	35.5	30.5	27.2	23.5	25.5	35.1	33.1	4/30/2021 12:14
9	3	50.5	101	62.6	49.8	44.2	38.6	35.6	30.6	26.9	23.5	25.5	35.1	33.1	4/30/2021 12:14
9	4	50.2	102	62.7	49.8	44.6	38.9	35.6	29.8	26.1	22.9	25.5	35.1	33.1	4/30/2021 12:14
9	5	50.6	101	63.4	50.4	45	39.3	35.9	31.1	28.1	23.8	25.5	35.1	33.1	4/30/2021 12:14
9	6	51.4	105	64.7	51.2	45.6	39.4	35.5	31.3	27.4	23.9	25.5	35.1	33.1	4/30/2021 12:14
9	7	50.6	102	63.4	50.4	45.1	39.1	34.9	30.7	26.8	23.9	25.5	35.1	33.1	4/30/2021 12:14
9	8	50.3	101	63	49.9	44.6	38.2	34.3	30.3	26	23.3	25.5	35.1	33.1	4/30/2021 12:14
9	9	51	101	62.5	49.9	44.7	38.3	34.4	30.2	25.8	23.2	25.5	35.1	33.1	4/30/2021 12:14
9	10	50	100	61.3	49	43.5	37.7	33.9	29.8	26.5	22.7	25.5	35.1	33.1	4/30/2021 12:14
7	1	50.2	222	121	88.1	69.6	53.7	43.7	36.4	30.3	27.2	24.4	35.2	33.2	4/30/2021 12:12
7	2	50.9	219	119	88.3	70.3	52.3	44.1	37.9	34	28.1	24.4	35.2	33.2	4/30/2021 12:12
7	3	50.6	226	119	88.7	70	52.1	43.1	36.6	30.8	26.6	24.4	35.2	33.2	4/30/2021 12:12
7	4	50.4	218	119	87.4	69.7	53.1	43.4	35.8	30.7	27	24.4	35.2	33.2	4/30/2021 12:12
7	5	50.2	222	118	87.9	69.8	53	42.8	34.5	30	26.6	24.4	35.2	33.2	4/30/2021 12:12
7	6	51	224	119	88.3	70.3	52.6	43.2	37.4	30.9	27	24.4	35.2	33.2	4/30/2021 12:12
7	7	50.3	214	118	86.6	69.1	52.2	43.3	37.5	31.5	28.3	24.4	35.2	33.2	4/30/2021 12:12
7	8	50.4	216	119	87.2	69.4	53.6	44.2	36.1	30.2	27.9	24.4	35.2	33.2	4/30/2021 12:12
7	9	49.9	221	117	86.4	69	51.8	42.2	33.4	30.6	26.6	24.4	35.2	33.2	4/30/2021 12:12
7	10	49.9	214	117	85.8	68.5	51.9	42.6	35.2	30.3	26.9	24.4	35.2	33.2	4/30/2021 12:12
10	1	48.5	238	129	85.9	63.8	50.7	42.7	36.1	30.5	26	31.9	34.5	33.5	6/29/2021 11:39
10	2	49.5	242	131	88.2	66.4	51.6	43.2	36.7	30.2	25.9	31.9	34.5	33.5	6/29/2021 11:39
10	3	50	241	132	88.5	66.7	52.1	43.6	37.5	31.8	26.8	31.9	34.5	33.5	6/29/2021 11:39
10	4	49.8	241	132	88.3	66.6	52	43.6	37.2	30.9	26.5	31.9	34.5	33.5	6/29/2021 11:39
10	5	48.5	238	130	86.7	65.2	50.8	42.7	36.5	30.5	26.2	31.9	34.5	33.5	6/29/2021 11:39
10	6	49.6	243	133	89	67	52	43.5	37.1	30.8	26.6	31.9	34.5	33.5	6/29/2021 11:39
10	7	49.4	238	131	87.8	66.1	51.6	43.5	37.2	31	27.1	31.9	34.5	33.5	6/29/2021 11:39
10	8	49.8	242	133	88.8	66.9	52.3	43.8	37.4	31.1	27	31.9	34.5	33.5	6/29/2021 11:39
10	9	50	241	132	88.3	66.7	51.8	43.8	36.9	30.9	26.5	31.9	34.5	33.5	6/29/2021 11:39
10	10	50.2	245	134	90.1	68.4	52.5	45.5	37.7	31.7	27.2	31.9	34.5	33.5	6/29/2021 11:39
7	1	49.6	221	116	81.9	66.4	52.1	43.1	36.6	30.5	26.5	31.1	35	34	6/29/2021 11:36
7	2	50.1	222	116	82.7	67.6	53.7	45	37.3	30.9	28.1	31.1	35	34	6/29/2021 11:36
7	3	49.6	222	115	81.8	67.2	53.1	44.3	37	31.1	27.5	31.1	35	34	6/29/2021 11:36
7	4	49.5	217	114	81.6	66.1	52.2	42.9	36.3	30.2	26.5	31.1	35	34	6/29/2021 11:36
7	5	50.5	216	116	83.5	67.9	54.1	44.6	37.8	31.6	28.3	31.1	35	34	6/29/2021 11:36
7	6	49.9	218	116	83.3	67.9	54.2	44.8	37.7	31.5	28.8	31.1	35	34	6/29/2021 11:36
7	7	50	217	115	83.3	67.8	54.3	44.6	37.6	31.3	28	31.1	35	34	6/29/2021 11:36
7	8	49	209	112	82.1	65.6	52.1	42.9	36.6	30.8	27.4	31.1	35	34	6/29/2021 11:36
7	9	49.7	215	116	84.3	67.3	53.1	43.8	36.9	30.8	27.2	31.1	35	34	6/29/2021 11:36
7	10	49.9	215	116	85	67.8	54	44.4	37.3	31.2	27.8	31.1	35	34	6/29/2021 11:36
8	1	49.6	126	69.2	58.4	51.2	44.8	40.5	32.7	28.9	26.9	31.4	35	34	6/29/2021 11:37
8	2	49.7	125	68	57.9	51.1	42.9	38.4	32.1	28.2	24	31.4	35	34	6/29/2021 11:37
8	3	50.9	129	70	59.9	52.5	46	40.1	33.8	29.2	24.9	31.4	35	34	6/29/2021 11:37
8	4	50.1	130	69.3	59.4	52.1	46	39.7	33.2	28.4	25.5	31.4	35	34	6/29/2021 11:37
8	5	50.1	130	68.9	58.7	51.4	44.3	39	32.5	27.7	24.7	31.4	35	34	6/29/2021 11:37
8	6	50.2	128	69.5	59.4	52	45.2	39.7	33	28.1	24.8	31.4	35	34	6/29/2021 11:37
8	7	50.7	129	69.9	60	52	45.6	39.9	33.3	28.2	25.4	31.4	35	34	6/29/2021 11:37

8	8	49.9	126	68.4	58.4	51.2	43.6	38.5	32.7	28.6	24.8	31.4	35	34	6/29/2021 11:37
8	9	50	128	68.9	58.5	51.3	44.1	39.9	32.9	28.7	24.6	31.4	35	34	6/29/2021 11:37
8	10	49.8	127	68.4	58	51	43.5	39.1	32.3	27.6	24	31.4	35	34	6/29/2021 11:37
5	1	50.1	147	68.3	52.1	44.4	37.9	34.2	30	25.2	23.3	30.7	35.3	34.3	6/29/2021 11:34
5	2	49.4	146	68.3	51.4	44.2	37.8	34.3	29.6	26.7	23.6	30.7	35.3	34.3	6/29/2021 11:34
5	3	48.9	146	67.6	51.6	43.4	36.7	32.8	29.1	25.5	22.3	30.7	35.3	34.3	6/29/2021 11:34
5	4	49.8	139	68	51.6	43.2	37.1	33.5	29.8	25.9	22.7	30.7	35.3	34.3	6/29/2021 11:34
5	5	49.2	143	66.8	51.1	42.9	36.5	33.2	29.3	32.5	22.8	30.7	35.3	34.3	6/29/2021 11:34
5	6	50.2	148	68.5	52.3	43.9	37.3	33.7	29.9	26	23	30.7	35.3	34.3	6/29/2021 11:34
5	7	49.9	160	67.9	52.1	43.8	37.3	33.4	29.6	23.3	23	30.7	35.3	34.3	6/29/2021 11:34
5	8	50.4	147	68.5	52.6	44.4	37.8	33.3	30.4	25.2	23.6	30.7	35.3	34.3	6/29/2021 11:34
5	9	49.8	148	67.9	51.9	43.8	37	32.5	29.5	24.4	22.8	30.7	35.3	34.3	6/29/2021 11:34
5	10	50.3	160	68.8	52.3	44.9	38.7	34.1	30.6	26.3	23.2	30.7	35.3	34.3	6/29/2021 11:34
4	1	50.2	162	86.5	66.5	55.5	45.4	39.1	34	28.3	24.6	30.7	35.6	34.6	6/29/2021 11:33
4	2	49.3	156	84	64.9	54.3	44.1	38.1	33	27.7	24	30.7	35.6	34.6	6/29/2021 11:33
4	3	49.8	158	84.5	65.5	54.6	45	39	33.6	27.9	24.1	30.7	35.6	34.6	6/29/2021 11:33
4	4	49.1	159	83.8	64.6	54.2	44.5	38.2	33	27.7	23.9	30.7	35.6	34.6	6/29/2021 11:33
4	5	50.1	162	86.4	66.6	55.9	46.5	39.5	34.2	28.1	24.6	30.7	35.6	34.6	6/29/2021 11:33
4	6	49.9	161	85.1	65.7	55.1	44.6	38.7	33.7	28.1	24.4	30.7	35.6	34.6	6/29/2021 11:33
4	7	50.1	167	86.3	66.4	55.8	47	39.7	33.9	28	26.7	30.7	35.6	34.6	6/29/2021 11:33
4	8	50.7	160	85.5	66.3	55.9	45.7	38.5	34.1	29.1	24.8	30.7	35.6	34.6	6/29/2021 11:33
4	9	49.4	158	83.9	64.7	54.8	43.6	37.7	33.1	28.2	25	30.7	35.6	34.6	6/29/2021 11:33
4	10	50	166	85.7	65.8	56	46.7	40.2	34.1	28.3	24.7	30.7	35.6	34.6	6/29/2021 11:33
9	1	49.2	97.5	60.4	50.1	45.2	39.2	33.4	30.7	26.7	23.6	31.5	36.7	34.7	4/30/2021 17:02
9	2	49.9	99.3	61.8	51.1	46.5	40.1	34.7	31.8	27.3	24.6	31.5	36.7	34.7	4/30/2021 17:02
9	3	50	97.6	60.8	50.7	45.9	40.2	35.3	31.7	28.4	24.3	31.5	36.7	34.7	4/30/2021 17:02
9	4	49.6	98	60.3	50.3	45.5	39.7	34.7	31.3	27.8	24.5	31.5	36.7	34.7	4/30/2021 17:02
9	5	49.8	100	61.1	51	46	40.1	35.2	31	27.6	24	31.5	36.7	34.7	4/30/2021 17:02
9	6	49.6	98.9	60.5	50.6	46.4	40	35.6	31.1	27.4	23.7	31.5	36.7	34.7	4/30/2021 17:02
9	7	49.7	100	60	50.3	45.9	39.6	35	30.9	26.9	23.4	31.5	36.7	34.7	4/30/2021 17:02
9	8	49.6	99.5	59.9	50.1	45.8	39.6	35.4	31	26.7	23.4	31.5	36.7	34.7	4/30/2021 17:02
9	9	49.4	99.2	59.7	50.1	45.8	39.6	35.8	31.1	26.8	23.6	31.5	36.7	34.7	4/30/2021 17:02
9	10	49.3	97	59.1	49.3	45.2	39.1	34.6	30.4	26.3	23.3	31.5	36.7	34.7	4/30/2021 17:02
6	1	50	80.1	47.7	40.5	37.2	33.3	30.4	26.7	24	21.2	31	35.7	34.7	6/29/2021 11:35
6	2	49	79.3	47	40	36.6	32.9	30	26.7	23.6	21.2	31	35.7	34.7	6/29/2021 11:35
6	3	50.4	79.7	48	41	37.7	34	30.9	27.5	24.5	21.5	31	35.7	34.7	6/29/2021 11:35
6	4	50.1	82	48.7	41.6	38.2	34.4	31.3	28.1	24.9	22	31	35.7	34.7	6/29/2021 11:35
6	5	50.1	86.7	48.6	41.4	38	34.2	30.8	27.8	24.1	22	31	35.7	34.7	6/29/2021 11:35
6	6	49	77.2	47.5	40	37	32.7	29	26.1	23.2	21.3	31	35.7	34.7	6/29/2021 11:35
6	7	50.1	84.7	47.8	40.8	37.9	34.1	31.2	27.6	24.9	21.8	31	35.7	34.7	6/29/2021 11:35
6	8	48.9	88.5	46.8	39.5	36.6	32.5	28.7	26.4	23.5	20.9	31	35.7	34.7	6/29/2021 11:35
6	9	49	66.9	45.5	38.2	35.9	31.3	28.3	25.7	24.1	20.7	31	35.7	34.7	6/29/2021 11:35
6	10	49.2	70.6	47.3	40.2	36.9	32.9	29.3	27.3	23.6	21.3	31	35.7	34.7	6/29/2021 11:35
10	1	48.7	291	153	95.1	68.4	51.2	43.4	36.7	32.3	27.4	31.5	37.1	35.1	4/30/2021 17:03
10	2	48.4	286	150	93.9	67.9	50.5	42.8	36.2	31.5	27.5	31.5	37.1	35.1	4/30/2021 17:03
10	3	48.6	283	148	93.7	68.3	50.8	41.4	37.7	30.8	28.6	31.5	37.1	35.1	4/30/2021 17:03
10	4	48.4	282	149	94	68.6	51.4	42.7	36.1	31.3	27.9	31.5	37.1	35.1	4/30/2021 17:03
10	5	48.3	281	148	93.6	68	50.7	42.3	33.8	30.4	26.7	31.5	37.1	35.1	4/30/2021 17:03
10	6	48.4	279	146	92.4	67.2	49.8	42.8	36.4	32.8	28.8	31.5	37.1	35.1	4/30/2021 17:03
10	7	48.2	278	145	91.8	66.9	49.7	42.7	35.8	31.4	27.7	31.5	37.1	35.1	4/30/2021 17:03

10	8	49.3	291	152	96.4	69.9	53.1	44.3	35.2	30.1	26.8	31.5	37.1	35.1	4/30/2021 17:03
10	9	48.4	286	148	92.8	67.4	49.9	42.3	35	30.6	27.6	31.5	37.1	35.1	4/30/2021 17:03
10	10	48	280	145	91.6	67.2	49.7	42.7	33.2	31.6	27.6	31.5	37.1	35.1	4/30/2021 17:03
6	1	49.7	91.4	55.2	45.2	41.2	36.3	33.1	29.8	26	22.9	30.7	37.4	35.4	4/30/2021 16:58
6	2	49.9	89.8	54.6	44.7	40.9	36.4	32.8	29.3	26	23	30.7	37.4	35.4	4/30/2021 16:58
6	3	49.4	93.6	53.4	43.7	40.4	35.9	32.3	28.9	25.4	22.1	30.7	37.4	35.4	4/30/2021 16:58
6	4	49.6	92.7	53.6	43.9	40.7	39.8	32.5	28.9	25.7	22.6	30.7	37.4	35.4	4/30/2021 16:58
6	5	49.6	90.8	52.9	43.3	40.7	34.7	32.3	28.9	25.4	22.4	30.7	37.4	35.4	4/30/2021 16:58
6	6	49.9	92.1	53.3	43.4	40.4	35.5	32.2	28.6	25.6	22.6	30.7	37.4	35.4	4/30/2021 16:58
6	7	49.5	91.3	52.8	43.1	40.2	36.4	32.1	28.2	24.8	21.8	30.7	37.4	35.4	4/30/2021 16:58
6	8	49.6	94.3	52.7	43.3	40.8	35.6	32.5	28.6	25.1	22.2	30.7	37.4	35.4	4/30/2021 16:58
6	9	49.9	98.2	53.2	43.7	40.9	35.2	33.2	28.8	25.5	22.6	30.7	37.4	35.4	4/30/2021 16:58
6	10	50	92.1	53.5	44.1	41.4	35.8	34.8	29.4	26.2	23	30.7	37.4	35.4	4/30/2021 16:58
12	1	49.5	124	68.7	54.1	48	42.2	36.7	32.4	27.7	25.2	31.1	38.5	35.5	4/30/2021 14:44
12	2	49.6	123	69	54.9	48.8	43	37.8	33.3	28.1	25.6	31.1	38.5	35.5	4/30/2021 14:44
12	3	50.2	126	69	55.4	49.1	43	37.6	33.4	28.1	25.6	31.1	38.5	35.5	4/30/2021 14:44
12	4	49.9	126	68.9	54.7	49.2	43.3	37.9	34.1	29.5	26.3	31.1	38.5	35.5	4/30/2021 14:44
12	5	49.6	126	68.9	54.7	48.8	43	38.2	34	28.8	25.9	31.1	38.5	35.5	4/30/2021 14:44
12	6	50.4	127	69.9	55.4	49.7	43.4	38.7	34.8	28.8	25.7	31.1	38.5	35.5	4/30/2021 14:44
12	7	49.5	122	68.1	54.2	48.8	42.8	36.9	32.9	29.2	28.1	31.1	38.5	35.5	4/30/2021 14:44
12	8	49.4	126	68.6	53.6	48.6	42.3	36.7	33.6	28.8	26.3	31.1	38.5	35.5	4/30/2021 14:44
12	9	49.5	129	68.6	54.4	48.3	41.4	36.9	33.5	27.8	24.9	31.1	38.5	35.5	4/30/2021 14:44
12	10	49.5	127	68.5	54.5	48.2	39.9	37.4	34	26.4	24.3	31.1	38.5	35.5	4/30/2021 14:44
7	1	49.6	228	111	82.7	67.9	53.4	45	38.6	30.3	27.1	31	37.5	35.5	4/30/2021 17:00
7	2	49.5	227	111	82.9	68	53.8	44.9	38.5	31.9	27	31	37.5	35.5	4/30/2021 17:00
7	3	49.6	225	111	82.8	68.1	53.6	44.6	38.3	31.7	27.1	31	37.5	35.5	4/30/2021 17:00
7	4	49.3	221	108	80.5	66.5	52.1	43.5	37.2	31.1	26.8	31	37.5	35.5	4/30/2021 17:00
7	5	49.2	221	110	81.6	67.3	53.1	44.6	37.8	31.1	27.6	31	37.5	35.5	4/30/2021 17:00
7	6	50.3	227	112	83.2	68.2	54.2	44.8	37.5	31.1	26.6	31	37.5	35.5	4/30/2021 17:00
7	7	49.1	226	109	80.5	66.4	52.1	43.2	37.3	30.6	26.1	31	37.5	35.5	4/30/2021 17:00
7	8	49.4	217	110	81.4	67.1	54.1	44.9	38.4	32.2	27.9	31	37.5	35.5	4/30/2021 17:00
7	9	49.1	216	108	80.3	68.4	51.7	43.4	35.5	30.7	26.4	31	37.5	35.5	4/30/2021 17:00
7	10	49.2	220	108	80.1	65	52	42.6	36.2	31.1	26.8	31	37.5	35.5	4/30/2021 17:00
5	1	48.8	175	68.7	47.6	42.1	37.9	34.1	29.1	25.6	22.4	30.2	37.6	35.6	4/30/2021 16:57
5	2	49	164	66	47.7	42.5	38.8	34.3	29.4	25.6	22.9	30.2	37.6	35.6	4/30/2021 16:57
5	3	50	157	65.7	49	43.9	39.3	35.1	30.7	26.7	22.6	30.2	37.6	35.6	4/30/2021 16:57
5	4	49.3	154	64.7	48.4	43.4	39.5	34.6	30.5	26.5	23.7	30.2	37.6	35.6	4/30/2021 16:57
5	5	49.7	163	65.6	49.2	44.3	39.9	34.8	30.8	27.1	23.9	30.2	37.6	35.6	4/30/2021 16:57
5	6	49	149	63.3	47.7	43.2	38.5	32.9	29.7	25.8	22.2	30.2	37.6	35.6	4/30/2021 16:57
5	7	49.3	148	63.3	48	43.4	38.9	32.8	30	25.9	22.9	30.2	37.6	35.6	4/30/2021 16:57
5	8	49.5	157	64.1	49	43.9	39.8	34.7	30.2	26.4	23.7	30.2	37.6	35.6	4/30/2021 16:57
5	9	49.3	143	62.8	47.9	43	39.2	34.5	30.1	26.5	23.6	30.2	37.6	35.6	4/30/2021 16:57
5	10	49.4	153	62.7	47.8	42.6	38.7	33.6	29.3	25.7	22.7	30.2	37.6	35.6	4/30/2021 16:57
8	1	49.7	148	79.4	65.2	57.4	48.2	40.7	35.4	30.2	25.9	31.3	37.6	35.6	4/30/2021 17:01
8	2	49.3	144	77.2	63.8	56.3	46.2	40.2	34.8	30.1	25.6	31.3	37.6	35.6	4/30/2021 17:01
8	3	49.9	149	78.9	65.3	57.6	47.2	41	36	31.2	26.7	31.3	37.6	35.6	4/30/2021 17:01
8	4	50.5	149	80.4	66.6	58.8	48.7	41.2	36.2	30.3	27.1	31.3	37.6	35.6	4/30/2021 17:01
8	5	49.7	148	79	65.3	57.6	47.4	39.6	34.2	25.3	25.7	31.3	37.6	35.6	4/30/2021 17:01
8	6	49.7	146	78.9	65.1	57.6	48.2	42	35.4	30.6	27.1	31.3	37.6	35.6	4/30/2021 17:01
8	7	49.8	145	77.3	63.9	57	47	41.8	35.6	30.6	26.6	31.3	37.6	35.6	4/30/2021 17:01

8	8	49.6	148	78.3	64.9	57.1	48.5	43.4	35	29.8	26.4	31.3	37.6	35.6	4/30/2021 17:01
8	9	49.6	147	77.2	63.7	56.5	46.4	39.4	34.6	28.2	25.2	31.3	37.6	35.6	4/30/2021 17:01
8	10	49.6	148	77.5	63.9	56.8	46.6	40.9	34.8	29.1	25.7	31.3	37.6	35.6	4/30/2021 17:01
4	1	49.3	228	92.6	65.7	55.9	48.2	40	34.7	28	25.3	29.3	37.9	35.9	4/30/2021 16:56
4	2	49.7	208	90.2	65.9	56.4	47.9	40.3	34.8	29.4	22.8	29.3	37.9	35.9	4/30/2021 16:56
4	3	49.8	203	89.9	66.3	56.9	47.1	40.4	34.9	29.4	25.5	29.3	37.9	35.9	4/30/2021 16:56
4	4	49.3	199	89.3	66.1	56.5	48.6	40.1	34.6	28.5	25.1	29.3	37.9	35.9	4/30/2021 16:56
4	5	50.2	200	90.8	67.6	57.7	49.7	41	35.2	28	25	29.3	37.9	35.9	4/30/2021 16:56
4	6	49.1	188	87.6	66	56.4	45.7	39.8	32.1	27.8	24.5	29.3	37.9	35.9	4/30/2021 16:56
4	7	48.9	188	87.4	65.4	55.8	46.6	39.2	32.7	27.5	24.3	29.3	37.9	35.9	4/30/2021 16:56
4	8	49.1	189	87.2	65.5	56.5	47.3	39.4	33.1	29	25	29.3	37.9	35.9	4/30/2021 16:56
4	9	49.8	188	87.3	65.9	56.6	46.6	38.6	32.4	27.6	23.7	29.3	37.9	35.9	4/30/2021 16:56
4	10	49.1	182	86.4	65.4	56.8	46.8	38.9	33.4	28.6	25.2	29.3	37.9	35.9	4/30/2021 16:56
5	1	50.2	159	70	52.9	46	40.6	36	31	27	22.5	29.9	39	36	4/30/2021 14:37
5	2	49.8	158	68.3	52.2	45.5	39.2	35.3	30.6	26.7	21.9	29.9	39	36	4/30/2021 14:37
5	3	50	156	68.9	52.9	46.2	41	36.4	31.4	27.4	22.4	29.9	39	36	4/30/2021 14:37
5	4	49.7	154	68	52.3	45.6	39.9	36.1	31.1	27	22.5	29.9	39	36	4/30/2021 14:37
5	5	49.5	154	67.6	51.9	45.3	39.7	35.6	30.8	27	22.9	29.9	39	36	4/30/2021 14:37
5	6	49.8	152	68.6	52.6	45.8	40.8	36.4	31	27	23.3	29.9	39	36	4/30/2021 14:37
5	7	51	153	68.9	53.9	46.8	40.4	36.3	31.8	27.8	24.9	29.9	39	36	4/30/2021 14:37
5	8	50.5	154	68.9	53.7	46.5	40.8	36.1	31.4	27.6	24.3	29.9	39	36	4/30/2021 14:37
5	9	49.6	154	68.5	53.2	46.1	40.6	36.1	31.4	27.6	24.2	29.9	39	36	4/30/2021 14:37
5	10	49.5	150	67	52.1	45.1	38.9	35.6	30.8	28.9	23.4	29.9	39	36	4/30/2021 14:37
11	1	49.9	179	84.8	64.2	56	49.3	42.2	35.7	30.7	27.1	31.7	39	36	4/30/2021 14:43
11	2	50.5	179	84.8	64.6	56.3	48.5	41.8	35.7	30.8	26.7	31.7	39	36	4/30/2021 14:43
11	3	49.4	173	83	63.2	55.1	47.3	41	35	30	26.1	31.7	39	36	4/30/2021 14:43
11	4	49.4	177	83.5	63.5	55.5	48.6	42	35.1	31.6	26.2	31.7	39	36	4/30/2021 14:43
11	5	49.6	175	83	63.3	55.2	48.3	41.8	35.2	30.3	26.5	31.7	39	36	4/30/2021 14:43
11	6	49.5	176	83.2	63.2	55.4	48.4	41.5	35.1	29.9	26.3	31.7	39	36	4/30/2021 14:43
11	7	49.5	176	83.5	63.4	55.6	48	41.1	35	29.8	25.9	31.7	39	36	4/30/2021 14:43
11	8	49.2	174	82.4	62.6	55.1	47.5	40.7	34.8	30	26.2	31.7	39	36	4/30/2021 14:43
11	9	49.4	173	82.7	62.9	55.6	47.8	40.9	35.2	29.9	26.2	31.7	39	36	4/30/2021 14:43
11	10	50.1	176	83.4	63.8	56.2	48.1	41.1	35.6	30.5	26.8	31.7	39	36	4/30/2021 14:43
4	1	49.6	178	94.6	68.3	59.3	48.3	42	35.1	29.6	25.3	29.6	39.4	36.4	4/30/2021 14:36
4	2	49.5	177	93.7	69.4	58.9	47.7	41.7	34.9	29.7	25.1	29.6	39.4	36.4	4/30/2021 14:36
4	3	49.4	177	91.7	69.9	59	47.4	40.6	34.9	29.5	25	29.6	39.4	36.4	4/30/2021 14:36
4	4	49.5	182	96.6	70.8	59.5	48.9	41.8	35	28.7	24.8	29.6	39.4	36.4	4/30/2021 14:36
4	5	49.9	188	95.9	71.1	60.3	49.6	42.3	35.9	30.5	25.9	29.6	39.4	36.4	4/30/2021 14:36
4	6	49.5	185	92.1	70	59.1	47.8	41.1	35.3	29.8	25.4	29.6	39.4	36.4	4/30/2021 14:36
4	7	49.7	187	94	70.8	59.9	48.7	42.1	35.5	29.6	25.5	29.6	39.4	36.4	4/30/2021 14:36
4	8	49.3	182	91.6	69.3	58.6	47.1	39.9	34.1	29.4	24.7	29.6	39.4	36.4	4/30/2021 14:36
4	9	49.5	178	92.4	70.2	59.4	47.7	40.8	34.7	29.6	25.1	29.6	39.4	36.4	4/30/2021 14:36
4	10	49.4	177	93.1	70.2	59.4	48.5	41	34.5	29.2	25	29.6	39.4	36.4	4/30/2021 14:36
10	1	49.1	296	143	89.9	64.5	50.1	42.1	36.1	30.5	26.8	31.5	39.4	36.4	4/30/2021 14:42
10	2	49	291	140	88.7	64.1	49.4	42.4	36.1	31	26.9	31.5	39.4	36.4	4/30/2021 14:42
10	3	49.1	296	142	89.7	64.7	50.1	42.4	36.3	30.7	26.6	31.5	39.4	36.4	4/30/2021 14:42
10	4	48.7	293	139	87.7	63.5	48.2	41.4	35.6	29.8	26.7	31.5	39.4	36.4	4/30/2021 14:42
10	5	49	291	140	88.3	64.3	49.4	42.5	36.3	30.5	26.8	31.5	39.4	36.4	4/30/2021 14:42
10	6	49	290	142	88.9	64.7	50.8	42.5	36.6	29.4	26.4	31.5	39.4	36.4	4/30/2021 14:42
10	7	48.7	292	140	87.9	63.8	48.9	41.3	35.9	30.1	26.7	31.5	39.4	36.4	4/30/2021 14:42

10	8	48.9	291	140	87.9	64.2	49.2	41.7	35.7	30.5	27.2	31.5	39.4	36.4	4/30/2021 14:42
10	9	49.7	298	142	89.8	65.6	50.3	43.2	35.6	30.1	26.9	31.5	39.4	36.4	4/30/2021 14:42
10	10	49	295	142	89.2	64.6	51.4	45.2	35.9	31	27.5	31.5	39.4	36.4	4/30/2021 14:42
6	1	49.8	95.9	53.7	42	38.9	35.3	31.5	28	25.5	21.8	30	40.1	37.1	4/30/2021 14:38
6	2	49.8	94.4	53.1	42.3	39.3	35.7	31.7	28.3	26.9	21.8	30	40.1	37.1	4/30/2021 14:38
6	3	50.1	94.1	53.8	43.7	39.9	35.8	33.4	28.7	24.9	22.6	30	40.1	37.1	4/30/2021 14:38
6	4	49.7	92.4	52.6	42.8	39.5	34.5	31	28.4	25.2	22.2	30	40.1	37.1	4/30/2021 14:38
6	5	49.8	94.7	52.8	42.8	39.2	35.3	32.5	28.2	23.7	22.1	30	40.1	37.1	4/30/2021 14:38
6	6	49.8	90.3	52.6	42.9	39.6	34.9	32.4	28.6	27	22.5	30	40.1	37.1	4/30/2021 14:38
6	7	49.7	88.5	52.2	42.3	39	34.3	32.4	28	25	21.8	30	40.1	37.1	4/30/2021 14:38
6	8	50.5	102	52.7	43	39.9	35.5	33	28.6	25.8	22.3	30	40.1	37.1	4/30/2021 14:38
6	9	49.7	87.2	52.3	42.3	39.2	34.9	32.4	28.3	25.4	22.1	30	40.1	37.1	4/30/2021 14:38
6	10	49.7	84.6	52.3	42.2	39.1	35.1	32	27.9	26.3	21.7	30	40.1	37.1	4/30/2021 14:38
9	1	50.2	101	61.5	51.3	45.7	40.6	35.3	31.6	28	24.3	31.4	41.1	38.1	4/30/2021 14:41
9	2	50	99	59.6	49.7	44.5	38.8	34.3	30.5	27.6	23.5	31.4	41.1	38.1	4/30/2021 14:41
9	3	51	101	61.3	51.3	46.1	40.5	35.9	31.6	28.2	24.4	31.4	41.1	38.1	4/30/2021 14:41
9	4	50.4	102	61.2	51.3	46.1	40.6	36.2	31.6	27.8	24.5	31.4	41.1	38.1	4/30/2021 14:41
9	5	50.8	102	60.9	50.9	45.7	40.6	36.3	31.5	27.7	24.3	31.4	41.1	38.1	4/30/2021 14:41
9	6	50.3	107	60.3	50.4	45.3	40.2	35.6	31.3	27.9	24.2	31.4	41.1	38.1	4/30/2021 14:41
9	7	50.2	97.2	60.6	50.6	45.5	40.5	36.1	31.6	28.2	24.5	31.4	41.1	38.1	4/30/2021 14:41
9	8	50.1	112	60.3	50.4	45.3	40	35.8	31.2	26.5	24	31.4	41.1	38.1	4/30/2021 14:41
9	9	49.8	96.2	59	49.2	44.6	38.7	34.6	30.4	27.1	23.7	31.4	41.1	38.1	4/30/2021 14:41
9	10	50	100	59.9	49.9	45.3	38.9	35.1	31	27.2	24	31.4	41.1	38.1	4/30/2021 14:41
7	1	49.6	220	113	84.7	67.8	54.2	44.5	38.9	32.3	27.4	30.8	41.3	38.3	4/30/2021 14:40
7	2	49.6	215	112	83.7	67	51.5	44.1	37.8	31.8	27.2	30.8	41.3	38.3	4/30/2021 14:40
7	3	49.8	215	112	84.4	67.6	53	44.3	38.4	32.4	27.7	30.8	41.3	38.3	4/30/2021 14:40
7	4	49.7	220	113	84.9	67.8	53.1	44	38	31.8	27.1	30.8	41.3	38.3	4/30/2021 14:40
7	5	49.8	217	114	85.3	68.6	54.4	44.8	38.5	33.6	28.2	30.8	41.3	38.3	4/30/2021 14:40
7	6	49.4	219	112	82.8	67.4	52.5	43.9	37.5	31.4	26.9	30.8	41.3	38.3	4/30/2021 14:40
7	7	49.6	221	114	83.9	68.7	54.1	44.4	36.8	31.8	27.8	30.8	41.3	38.3	4/30/2021 14:40
7	8	49.3	223	112	81	67.6	52.8	43.8	36.1	31.4	28	30.8	41.3	38.3	4/30/2021 14:40
7	9	49.5	213	114	82.4	67.5	55	44.8	36.7	32.7	27.9	30.8	41.3	38.3	4/30/2021 14:40
7	10	49.4	223	113	82.4	66.8	54.9	44.5	36	31.4	27.3	30.8	41.3	38.3	4/30/2021 14:40
8	1	49.5	154	78	64	56.4	47.7	41.1	35.1	30	26.1	31.1	41.7	38.7	4/30/2021 14:40
8	2	49.8	151	77.3	63.9	56.4	47.4	40.9	35.2	31	26	31.1	41.7	38.7	4/30/2021 14:40
8	3	50.1	152	77.8	64.3	56.8	47.8	41	35.3	30	26.3	31.1	41.7	38.7	4/30/2021 14:40
8	4	50	151	77	63.8	56.4	47.5	40.9	34.6	30.2	26.2	31.1	41.7	38.7	4/30/2021 14:40
8	5	50	150	77.1	64.5	56.3	47.3	40.6	34.5	30.2	26.6	31.1	41.7	38.7	4/30/2021 14:40
8	6	50.8	152	77.9	65.3	57	47.9	41.1	35	28.1	28	31.1	41.7	38.7	4/30/2021 14:40
8	7	50	153	77.4	64.6	56.2	47.1	40.6	34.8	29.9	26.1	31.1	41.7	38.7	4/30/2021 14:40
8	8	49.7	150	76.1	63.7	55.3	46.3	40	34.1	29.7	25.9	31.1	41.7	38.7	4/30/2021 14:40
8	9	49.8	151	76.2	63.9	55.4	46.3	40	34	29.3	25.5	31.1	41.7	38.7	4/30/2021 14:40
8	10	50	153	77.3	64.7	56.4	47.3	41	34.7	29.6	26.4	31.1	41.7	38.7	4/30/2021 14:40
11	1	48.1	183	84.6	63.7	56.8	49.5	45.2	36.9	30.9	27.5	34	43.2	40.2	5/11/2021 14:30
11	2	47.7	178	82.2	62	56.1	48.3	43.5	35.6	29.8	26.2	34	43.2	40.2	5/11/2021 14:30
11	3	48.1	179	82.7	63.2	57	49.6	44.4	36.8	31.1	26.9	34	43.2	40.2	5/11/2021 14:30
11	4	48.2	179	82.9	63.4	56.9	49.7	44.9	36.4	31	26.9	34	43.2	40.2	5/11/2021 14:30
11	5	48.3	178	83.1	63.3	57	49.3	43.9	35.9	30.5	26.9	34	43.2	40.2	5/11/2021 14:30
11	6	47.9	182	80.9	62.4	56.3	48.6	43.7	35.3	30.4	26.4	34	43.2	40.2	5/11/2021 14:30
11	7	47.9	181	81.4	62.8	56.3	48.3	43.8	35.7	30.5	26.7	34	43.2	40.2	5/11/2021 14:30

11	8	48	181	81.3	62.7	56.8	49.2	44.5	35.7	30.4	26.7	34	43.2	40.2	5/11/2021 14:30
11	9	48	181	80.2	62.3	56.1	48.6	43.6	35.4	30.4	27.1	34	43.2	40.2	5/11/2021 14:30
11	10	47.8	176	79.6	61.8	55.9	47.3	43	34.3	30	26.5	34	43.2	40.2	5/11/2021 14:30
5	1	48.4	162	72	54.9	49.3	42.9	37.1	32.4	27.8	24.6	32.4	43.6	40.6	5/11/2021 14:24
5	2	48.3	158	70.1	53.7	47.7	40.9	36.3	31.2	27.1	23.5	32.4	43.6	40.6	5/11/2021 14:24
5	3	49.6	158	70.6	54.2	48.4	42.4	38	32.6	28.7	25.1	32.4	43.6	40.6	5/11/2021 14:24
5	4	48.7	157	68.9	53.2	47.3	40.6	38.7	30.9	28.4	24.9	32.4	43.6	40.6	5/11/2021 14:24
5	5	48.8	161	70.2	54.1	48.4	42	41.8	32.3	27.9	24.2	32.4	43.6	40.6	5/11/2021 14:24
5	6	49.7	162	71.3	55.1	49.1	42.8	42.7	32.9	28.1	24.2	32.4	43.6	40.6	5/11/2021 14:24
5	7	48.9	155	68.6	53.4	47.9	41.6	40.9	31.9	27.6	23.7	32.4	43.6	40.6	5/11/2021 14:24
5	8	49.6	165	71.1	55	49.5	42.8	42.4	32.9	28.4	24.5	32.4	43.6	40.6	5/11/2021 14:24
5	9	49.5	167	70.4	54.7	48.2	42.6	40.8	32.1	27.9	24	32.4	43.6	40.6	5/11/2021 14:24
5	10	48.9	162	69.7	54	48.3	42	41.4	33	29.6	24.9	32.4	43.6	40.6	5/11/2021 14:24
6	1	48.9	88.3	50.9	43.4	40.2	36	32.3	28.8	25.2	22.1	33.3	43.8	40.8	5/11/2021 14:25
6	2	48.9	88.4	51	43.4	40.4	36.3	32.7	29.2	25.5	22.5	33.3	43.8	40.8	5/11/2021 14:25
6	3	49	87.4	51.3	43.7	40.8	36.7	33	29.5	24.7	22.8	33.3	43.8	40.8	5/11/2021 14:25
6	4	49.1	88.8	51.5	43.9	41	37	33.2	29.7	26.1	22.9	33.3	43.8	40.8	5/11/2021 14:25
6	5	48.8	93.4	51.3	43.7	40.9	36.9	33.1	29.5	25.8	22.7	33.3	43.8	40.8	5/11/2021 14:25
6	6	48.9	89.3	50.9	43.5	40.4	36.6	32.9	29.3	24.9	22.5	33.3	43.8	40.8	5/11/2021 14:25
6	7	48.7	89.6	50.5	43.1	40.2	36.2	32.4	28.9	25.2	22.2	33.3	43.8	40.8	5/11/2021 14:25
6	8	48.9	93.1	51.4	43.8	40.9	36.9	33.2	29.6	25.9	23.3	33.3	43.8	40.8	5/11/2021 14:25
6	9	49.5	90.1	51.3	43.9	41	37	32.8	29.6	25.7	22.7	33.3	43.8	40.8	5/11/2021 14:25
6	10	48.8	93.3	51.1	43.6	40.7	36.7	32.8	29.5	25.7	22.6	33.3	43.8	40.8	5/11/2021 14:25
7	1	48.5	220	107	80.5	67.4	54.4	46.4	39.6	34	27.9	34.4	43.9	40.9	5/11/2021 14:27
7	2	48.6	218	107	80.5	67.4	54.5	46.6	39.9	33.6	28.4	34.4	43.9	40.9	5/11/2021 14:27
7	3	48.6	220	107	80.5	67.3	54.3	46.2	39.5	33	27.7	34.4	43.9	40.9	5/11/2021 14:27
7	4	48.4	215	106	79.5	66.7	54	45.8	39.2	33.3	27.6	34.4	43.9	40.9	5/11/2021 14:27
7	5	48.7	220	108	80.7	67.8	54.8	46.6	39.8	33.3	28.1	34.4	43.9	40.9	5/11/2021 14:27
7	6	48.5	220	107	80.4	67.6	54.3	46.1	39.2	32.6	27.3	34.4	43.9	40.9	5/11/2021 14:27
7	7	48.5	221	107	80.6	67.7	54.4	46.3	39.2	32.4	27.2	34.4	43.9	40.9	5/11/2021 14:27
7	8	49.2	222	108	81.5	68.7	55.3	46.8	39.3	33.1	27	34.4	43.9	40.9	5/11/2021 14:27
7	9	49.4	225	109	81.9	69	55.5	47	39.7	33	27.3	34.4	43.9	40.9	5/11/2021 14:27
7	10	48.4	221	106	79.8	67.1	54.1	46.1	39.1	33	27.4	34.4	43.9	40.9	5/11/2021 14:27
10	1	47.4	296	133	84.3	64.7	52.4	44.4	37.7	31.3	28.6	34.2	44.2	41.2	5/11/2021 14:29
10	2	48.4	302	136	86.7	66.4	54.3	45.9	38.6	32	28.5	34.2	44.2	41.2	5/11/2021 14:29
10	3	47.6	296	134	85.4	64.9	53.1	45.1	37.9	31.2	27.5	34.2	44.2	41.2	5/11/2021 14:29
10	4	47.5	294	132	85.1	65.1	52.7	46.7	37.4	30	27.1	34.2	44.2	41.2	5/11/2021 14:29
10	5	47.3	291	132	85.1	64.7	52.3	43.8	35.7	30.5	27.1	34.2	44.2	41.2	5/11/2021 14:29
10	6	47.5	288	131	84.3	64.7	53.1	44.9	35.9	32.4	28	34.2	44.2	41.2	5/11/2021 14:29
10	7	47.5	289	130	83.7	64.8	52.8	44.7	36	32.5	27.9	34.2	44.2	41.2	5/11/2021 14:29
10	8	47.4	291	132	84.4	65	53.5	45.2	36	33	28.4	34.2	44.2	41.2	5/11/2021 14:29
10	9	47.4	291	133	83.8	65.1	52.8	45.1	36.2	32.5	28.4	34.2	44.2	41.2	5/11/2021 14:29
10	10	47.8	292	133	84.8	65.6	54	46.4	36.4	32.6	28.1	34.2	44.2	41.2	5/11/2021 14:29
4	1	48.8	170	90	66.5	57.3	46.6	40.4	35	29.5	25.4	34.3	43.8	41.8	5/11/2021 12:39
4	2	48.8	173	91.3	67.2	57.7	47.7	40.9	34.5	29.1	25	34.3	43.8	41.8	5/11/2021 12:39
4	3	48.7	167	89.8	66.8	57.5	46.8	40.4	34.9	29.9	25.7	34.3	43.8	41.8	5/11/2021 12:39
4	4	49.6	172	90.6	67.8	58.4	47.6	41.8	35.4	29.9	25.8	34.3	43.8	41.8	5/11/2021 12:39
4	5	49	176	88.9	67	57.8	49.7	41.4	34.9	29.4	25.4	34.3	43.8	41.8	5/11/2021 12:39
4	6	49	169	88.7	66.9	57.9	49.5	41.7	35.2	30.2	25.7	34.3	43.8	41.8	5/11/2021 12:39
4	7	48.9	173	88.2	66.4	57.4	49.8	41.7	35.1	29.9	25.6	34.3	43.8	41.8	5/11/2021 12:39

4	8	48.7	172	88.5	66.6	57.6	49.3	42	34.8	29.9	25.4	34.3	43.8	41.8	5/11/2021 12:39
4	9	48.9	171	89.2	67	58.1	49.6	41.8	34.7	29.9	25.4	34.3	43.8	41.8	5/11/2021 12:39
4	10	48.6	168	86.8	65.4	56.4	45.5	38.4	33.5	30.1	25.2	34.3	43.8	41.8	5/11/2021 12:39
12	1	48.4	134	70.8	55.2	49.2	43	38.7	33.8	29.2	25.2	34	43.8	41.8	5/11/2021 12:45
12	2	48.7	136	70.8	55.6	49.7	43.7	39.4	34.5	29.9	25.9	34	43.8	41.8	5/11/2021 12:45
12	3	48.4	135	69.1	54.8	49.1	42.9	38.2	33.7	28.6	25.7	34	43.8	41.8	5/11/2021 12:45
12	4	48.2	133	67.9	54.1	48.5	41.4	36.7	33.1	29.6	26.2	34	43.8	41.8	5/11/2021 12:45
12	5	48.5	133	68.3	54.5	48.9	42.3	37	33.9	29	26	34	43.8	41.8	5/11/2021 12:45
12	6	48.5	134	69.3	55.3	49.7	43.3	38	34.6	30.4	27.7	34	43.8	41.8	5/11/2021 12:45
12	7	48.4	134	68.2	54.6	49	42.7	37.1	34.3	31.6	24.9	34	43.8	41.8	5/11/2021 12:45
12	8	48.6	135	69.7	55.5	50	43.5	37.6	34.1	28.8	26.5	34	43.8	41.8	5/11/2021 12:45
12	9	48.6	138	69.4	55	49.5	42.9	37.4	33.7	32.4	25.4	34	43.8	41.8	5/11/2021 12:45
12	10	48.4	135	68.8	54.6	49.2	42.7	37	33.5	29.5	25.8	34	43.8	41.8	5/11/2021 12:45
4	1	48.6	177	90.6	67.8	58.8	49.4	42.2	35.9	30.3	25.5	32.1	44.8	41.8	5/11/2021 14:23
4	2	48.6	177	90.6	68	58.9	48.9	41.8	34.5	29.9	25.2	32.1	44.8	41.8	5/11/2021 14:23
4	3	48.7	174	89	67.1	58.3	47.8	41.9	35.5	31.7	25.6	32.1	44.8	41.8	5/11/2021 14:23
4	4	48.9	182	90.6	68.5	59.1	51.6	42.5	35.3	29.9	25.8	32.1	44.8	41.8	5/11/2021 14:23
4	5	49	177	89.1	68.1	59.3	50.5	40.5	33.1	30.4	25.5	32.1	44.8	41.8	5/11/2021 14:23
4	6	48.8	178	88.2	67.2	58.5	48.4	39.5	33	30.5	25.1	32.1	44.8	41.8	5/11/2021 14:23
4	7	48.9	179	89	67.9	59	48.7	41.5	34.2	29.5	25.3	32.1	44.8	41.8	5/11/2021 14:23
4	8	48.9	179	88.1	67.4	58.5	49.1	42.1	35.4	29.7	26	32.1	44.8	41.8	5/11/2021 14:23
4	9	48.9	181	87.2	67.3	58.5	48.7	39.9	34.2	30.1	25.9	32.1	44.8	41.8	5/11/2021 14:23
4	10	48.9	182	89.6	68.4	59.9	49.7	42.4	35.9	30.4	25.9	32.1	44.8	41.8	5/11/2021 14:23
10	1	47.5	269	133	86.9	65.5	50.5	49.1	36.2	30.9	26.4	34.2	44	42	5/11/2021 12:44
10	2	47.6	265	132	86.3	65.6	50.6	47.5	36.2	31.2	26.8	34.2	44	42	5/11/2021 12:44
10	3	47.8	269	132	86.8	65.7	51.4	43.8	36.9	31.5	27	34.2	44	42	5/11/2021 12:44
10	4	48.2	266	132	86.7	65.9	51.3	43.6	36.4	32.5	27.6	34.2	44	42	5/11/2021 12:44
10	5	48.2	266	133	87.2	66	51.6	43.4	36.3	31.3	26.8	34.2	44	42	5/11/2021 12:44
10	6	47.9	268	132	86.4	65.2	50.1	42.3	36.1	30.7	26.7	34.2	44	42	5/11/2021 12:44
10	7	47.9	263	131	85.7	65	49.6	41.8	35	30.7	26.4	34.2	44	42	5/11/2021 12:44
10	8	49	274	137	90.1	67.8	54.7	46.3	37.4	33.7	28.5	34.2	44	42	5/11/2021 12:44
10	9	48.6	268	134	88	66.3	52.1	44.7	35.7	32	26.7	34.2	44	42	5/11/2021 12:44
10	10	48	271	134	88.2	66.3	52.5	43.6	35.4	31.5	26.2	34.2	44	42	5/11/2021 12:44
8	1	48.2	159	76.4	62.4	56.2	48.2	43.1	35.2	30.1	26.2	34	44.1	42.1	5/11/2021 12:42
8	2	48.6	159	76.8	63.2	56.6	48.3	43.3	36.1	30.8	27	34	44.1	42.1	5/11/2021 12:42
8	3	48.6	166	76.8	63	56.5	49.6	41.7	36	30.6	26.5	34	44.1	42.1	5/11/2021 12:42
8	4	48.5	156	75.6	62.4	55.9	48.1	40.7	35.4	30.2	26.6	34	44.1	42.1	5/11/2021 12:42
8	5	49.6	155	78.1	63.9	57.5	48.7	41.8	36	30.5	26.4	34	44.1	42.1	5/11/2021 12:42
8	6	49.5	156	76.8	63.7	57.2	48.6	41.6	36.1	30.9	26.9	34	44.1	42.1	5/11/2021 12:42
8	7	49.5	161	76.7	63.7	57.4	49.1	42	35.7	31	26.9	34	44.1	42.1	5/11/2021 12:42
8	8	48.9	159	76.4	63.2	56.8	48	41.7	36.2	30.7	27.4	34	44.1	42.1	5/11/2021 12:42
8	9	48.7	157	75.2	62.6	56.1	47.5	40.4	35.3	30	26.8	34	44.1	42.1	5/11/2021 12:42
8	10	48.6	155	74.5	62.3	55.8	47.2	39.8	34.7	30.1	26.2	34	44.1	42.1	5/11/2021 12:42
8	1	48.2	172	79.4	67.4	60	51.3	43.6	36.7	31.5	27.7	33.9	44.3	42.3	5/11/2021 16:53
8	2	48.8	169	79.1	67	60	49.2	43.9	36.5	31.9	27	33.9	44.3	42.3	5/11/2021 16:53
8	3	48.2	168	77.6	66	59.1	48.2	43.1	35.9	30.8	26.5	33.9	44.3	42.3	5/11/2021 16:53
8	4	48.3	171	78.4	66.8	59.8	49.7	44.3	36.7	31.6	27	33.9	44.3	42.3	5/11/2021 16:53
8	5	48.1	167	77.3	65.8	59.1	48.2	44	35.8	31.3	26	33.9	44.3	42.3	5/11/2021 16:53
8	6	49	172	79.1	67.7	60.5	50	44.9	36.6	32	27.6	33.9	44.3	42.3	5/11/2021 16:53
8	7	48.5	170	78.9	66.8	60.2	51.4	45.1	36.6	32.2	27.8	33.9	44.3	42.3	5/11/2021 16:53

8	8	48.4	170	78.5	66.7	60	51.1	44.7	36.4	31.7	27.5	33.9	44.3	42.3	5/11/2021 16:53
8	9	49	173	79.6	67.5	60.5	51.8	46.5	36.6	31.4	27.1	33.9	44.3	42.3	5/11/2021 16:53
8	10	48	165	76.8	65.3	59	48.7	45	35.8	30.5	26.4	33.9	44.3	42.3	5/11/2021 16:53
11	1	48	181	85.3	63.5	55.9	48.8	41.7	35.9	31.3	26.8	34.2	44.4	42.4	5/11/2021 12:45
11	2	48.2	180	84.7	63.3	55.8	48.7	41.9	36	31.1	26.9	34.2	44.4	42.4	5/11/2021 12:45
11	3	48.5	181	84.7	63.5	55.9	48.9	42.4	36.1	31	27	34.2	44.4	42.4	5/11/2021 12:45
11	4	48.4	187	83.7	63.2	55.7	48.7	42.3	36.7	29.8	26.8	34.2	44.4	42.4	5/11/2021 12:45
11	5	48.5	190	83	62.6	55.1	48.3	42	36.2	30.8	26.8	34.2	44.4	42.4	5/11/2021 12:45
11	6	49.3	181	85.8	64.6	56.7	49.9	43	36.6	30.9	26.7	34.2	44.4	42.4	5/11/2021 12:45
11	7	48.3	178	81.1	61.1	54.4	47.3	41.1	35.5	30.2	26.4	34.2	44.4	42.4	5/11/2021 12:45
11	8	48.4	183	83	62.9	55.3	48.4	42.1	35.5	30.4	26.4	34.2	44.4	42.4	5/11/2021 12:45
11	9	48.3	181	84.6	63.9	55.5	48.6	41.6	35	30.2	25.6	34.2	44.4	42.4	5/11/2021 12:45
11	10	49.3	180	85.5	65	56.3	50.3	43.5	36.8	31.4	27.4	34.2	44.4	42.4	5/11/2021 12:45
8	1	48.6	159	76.4	63.7	57.2	48.7	43.3	35.8	30.7	26.7	34.6	45.4	42.4	5/11/2021 14:27
8	2	48.9	158	76.9	64	57.7	48.6	43.4	35.9	30.8	26.8	34.6	45.4	42.4	5/11/2021 14:27
8	3	49.6	162	78.5	65.5	58.9	49.8	44.3	37.2	31.6	27.6	34.6	45.4	42.4	5/11/2021 14:27
8	4	48.8	161	77	64.1	57.9	49	44.1	36.2	30.8	26.8	34.6	45.4	42.4	5/11/2021 14:27
8	5	49.6	163	78.3	65.4	59	50	45.5	37	31.9	27.4	34.6	45.4	42.4	5/11/2021 14:27
8	6	48.8	159	76.3	64.5	57.7	49	43.5	36.1	31.1	27.1	34.6	45.4	42.4	5/11/2021 14:27
8	7	48.9	159	76.5	64.4	57.9	49.1	43	36.4	31.1	27.6	34.6	45.4	42.4	5/11/2021 14:27
8	8	49.6	163	77.9	65.6	58.8	49.7	45.1	37.1	31.5	27.2	34.6	45.4	42.4	5/11/2021 14:27
8	9	48.7	158	76.2	64.3	57.7	48.9	43	36.1	30.6	26.9	34.6	45.4	42.4	5/11/2021 14:27
8	10	48.6	159	76.1	64	57.3	48.5	42.3	35.9	30.6	26.5	34.6	45.4	42.4	5/11/2021 14:27
9	1	48.4	97.9	61.4	52.2	47	41.3	36.7	32.6	28.2	25.1	34.1	44.6	42.6	5/11/2021 12:43
9	2	48.3	96.9	60.2	51.5	46.3	40.6	35.9	31.8	27.1	24.6	34.1	44.6	42.6	5/11/2021 12:43
9	3	48.5	99.5	60.3	51.2	46.3	39.7	34.8	31.9	26.4	24.4	34.1	44.6	42.6	5/11/2021 12:43
9	4	48.9	100	61.2	51.8	47.3	41.6	36.2	31.9	27.5	24.8	34.1	44.6	42.6	5/11/2021 12:43
9	5	48.9	93.3	60.5	51.5	46.7	40.2	34.3	31.7	27.1	24.5	34.1	44.6	42.6	5/11/2021 12:43
9	6	48.8	99.5	60.8	51.4	46.7	40.4	35.6	32	27.5	24.7	34.1	44.6	42.6	5/11/2021 12:43
9	7	49	98.3	61	51.6	46.8	41.2	36.3	32.1	28.9	25.1	34.1	44.6	42.6	5/11/2021 12:43
9	8	48.9	99	60.2	51	46.7	40.3	34.8	30.7	27.2	23.5	34.1	44.6	42.6	5/11/2021 12:43
9	9	48.6	101	59.4	50.1	45.8	38.9	33.4	31.2	26.4	22.8	34.1	44.6	42.6	5/11/2021 12:43
9	10	48.7	103	60.2	50.8	46.7	40.1	34.7	32.1	27.2	23.2	34.1	44.6	42.6	5/11/2021 12:43
9	1	49	110	61.1	51.5	47.2	41.5	38.9	32.6	28.3	25.1	34.8	45.6	42.6	5/11/2021 14:28
9	2	49	109	61.2	51.8	47.4	41.7	38.8	32.7	28.5	25.2	34.8	45.6	42.6	5/11/2021 14:28
9	3	48.8	110	60.3	51.1	46.8	41.1	38	32.1	27.9	24.8	34.8	45.6	42.6	5/11/2021 14:28
9	4	48.9	109	61.1	51.7	47.3	41.5	38.5	32.5	28.3	24.8	34.8	45.6	42.6	5/11/2021 14:28
9	5	48.7	110	60.6	51.5	47.2	41.6	38.4	32.6	28.3	24.8	34.8	45.6	42.6	5/11/2021 14:28
9	6	48.5	111	60.2	50.9	46.6	41	37.7	31.9	26.5	24.4	34.8	45.6	42.6	5/11/2021 14:28
9	7	48.7	112	61.3	52	47.6	41.9	38.8	32.8	28.6	25.4	34.8	45.6	42.6	5/11/2021 14:28
9	8	49.5	109	61.1	52	47.6	42	38.6	32.7	28.5	25.3	34.8	45.6	42.6	5/11/2021 14:28
9	9	49.4	112	61.3	52.2	47.7	42	38.6	32.7	28.6	25.5	34.8	45.6	42.6	5/11/2021 14:28
9	10	48.5	116	60.1	51.1	46.8	41.2	38	32.1	28	24.5	34.8	45.6	42.6	5/11/2021 14:28
6	1	48.7	85.5	52.1	43.4	40.1	35.4	32.6	29.5	26.5	23.3	34	44.7	42.7	5/11/2021 12:41
6	2	49.1	88	53.1	43.8	41.2	37	32.8	30.2	26.3	23.6	34	44.7	42.7	5/11/2021 12:41
6	3	49.2	87.3	52.3	43	40.3	35.9	32.3	29.5	25.7	22.8	34	44.7	42.7	5/11/2021 12:41
6	4	49	87	51.5	42.6	40	35.3	31.3	29.1	25.3	22.5	34	44.7	42.7	5/11/2021 12:41
6	5	48.7	83.2	50.6	42.3	39.6	35.6	31.6	29.5	25.4	22.9	34	44.7	42.7	5/11/2021 12:41
6	6	48.8	91.4	50.5	42.2	39.9	34.8	30.7	29.8	25.3	22.7	34	44.7	42.7	5/11/2021 12:41
6	7	49	98.4	50.7	42.8	40.3	37	31.3	30.4	25.7	23.2	34	44.7	42.7	5/11/2021 12:41

6	8	48.8	90.2	50.2	42.1	40.1	35	29.2	30	24.5	22.3	34	44.7	42.7	5/11/2021 12:41
6	9	49.5	90.5	50.8	42.9	40.1	36.2	33.5	29.7	25.7	22.6	34	44.7	42.7	5/11/2021 12:41
6	10	49.9	96.9	51.7	43.3	41.7	37.9	32	30.3	25.5	23	34	44.7	42.7	5/11/2021 12:41
7	1	48.2	239	118	84.7	68	53.5	44.4	37.9	33	27.1	34.1	44.7	42.7	5/11/2021 12:42
7	2	48.5	239	119	86.4	69.7	54.9	45.7	38.7	32.9	27.8	34.1	44.7	42.7	5/11/2021 12:42
7	3	48.8	246	121	87.4	70.3	55.4	46	38.3	32.4	28.1	34.1	44.7	42.7	5/11/2021 12:42
7	4	48.2	240	117	84.3	67.9	52.8	43.6	36.7	32	27.4	34.1	44.7	42.7	5/11/2021 12:42
7	5	48.4	242	117	84.9	68.9	53.5	43.7	36.6	31.6	27.7	34.1	44.7	42.7	5/11/2021 12:42
7	6	48.3	240	117	84.6	68.6	53.7	45	37.7	31.3	26.9	34.1	44.7	42.7	5/11/2021 12:42
7	7	48.3	241	117	84.8	69	54.5	45.7	37.4	31.1	27	34.1	44.7	42.7	5/11/2021 12:42
7	8	48.6	245	118	85.9	69.9	55.7	47	38.7	32.4	28.6	34.1	44.7	42.7	5/11/2021 12:42
7	9	48.4	238	115	83.2	68.6	53.6	45.3	37.9	32.2	28.6	34.1	44.7	42.7	5/11/2021 12:42
7	10	48.2	238	116	83.8	68.3	53.4	42.6	37.3	32.9	29.8	34.1	44.7	42.7	5/11/2021 12:42
5	1	48.6	158	73.4	55.3	47.1	42.3	36.5	31.6	26.7	24.3	34.1	44.8	42.8	5/11/2021 12:40
5	2	48.7	159	73	55.7	47.3	41.3	37.1	32.2	27.8	24.6	34.1	44.8	42.8	5/11/2021 12:40
5	3	48.9	161	71.9	54.6	47	40.7	38.2	33.7	26.9	23.9	34.1	44.8	42.8	5/11/2021 12:40
5	4	48.7	160	71.2	54	46.8	40.4	37.6	33.2	26.6	23.1	34.1	44.8	42.8	5/11/2021 12:40
5	5	48.7	157	70.1	53.7	46.5	40.2	36.6	33.2	27.6	24.1	34.1	44.8	42.8	5/11/2021 12:40
5	6	48.7	156	70	53.9	47	40.8	38.6	33.7	27.7	24	34.1	44.8	42.8	5/11/2021 12:40
5	7	49.2	158	70.3	54.1	47.1	40.6	38.4	33.4	27.3	23.7	34.1	44.8	42.8	5/11/2021 12:40
5	8	48.9	158	71	54.6	47.5	40.9	39.2	33.6	27.3	24	34.1	44.8	42.8	5/11/2021 12:40
5	9	48.7	156	69.8	54	46.8	40.8	39.8	34	27.9	24.3	34.1	44.8	42.8	5/11/2021 12:40
5	10	48.8	156	70	53.9	47	40.8	39.2	33.5	27.6	23.9	34.1	44.8	42.8	5/11/2021 12:40
4	1	48.3	157	80.4	60	52.4	45	38.8	33.1	28.3	24.5	40.5	45.8	42.8	6/29/2021 14:24
4	2	48.1	157	78.8	59.3	52.1	44.2	38.2	32.4	28.4	24.4	40.5	45.8	42.8	6/29/2021 14:24
4	3	48.4	161	79.8	60.1	53.1	46.3	39.4	32.7	28.3	24.3	40.5	45.8	42.8	6/29/2021 14:24
4	4	48.1	158	79.2	59.6	52.9	45.4	38.8	34	28.8	24.3	40.5	45.8	42.8	6/29/2021 14:24
4	5	48.3	161	79.7	60.9	53.4	46.1	39.1	35	27.6	24.2	40.5	45.8	42.8	6/29/2021 14:24
4	6	48.3	157	78.3	59.6	53	45	39.2	35.1	29	25.2	40.5	45.8	42.8	6/29/2021 14:24
4	7	48.2	156	77.5	59.1	52.5	44.8	38.4	33.5	28.8	24.3	40.5	45.8	42.8	6/29/2021 14:24
4	8	48.8	162	79.8	61	53.5	45.4	38.9	33.2	27.9	24.3	40.5	45.8	42.8	6/29/2021 14:24
4	9	47.9	155	77.7	59.2	52.4	44.5	38.6	33.3	28.4	24.1	40.5	45.8	42.8	6/29/2021 14:24
4	10	48.3	156	78.6	60.2	53.4	45.7	39.6	34.6	30.5	25.1	40.5	45.8	42.8	6/29/2021 14:24
12	1	48.2	129	69.1	55.3	50.9	45.8	39.2	34.4	29.3	27.4	34.3	45.9	42.9	5/11/2021 14:31
12	2	48.1	127	67.6	55.4	50.2	42.9	38.2	33.7	30.6	25.6	34.3	45.9	42.9	5/11/2021 14:31
12	3	48.1	128	67.1	55.1	50.2	44.9	38.6	34	30.6	25.7	34.3	45.9	42.9	5/11/2021 14:31
12	4	48	126	66.2	54.3	49.5	43.3	39.4	33.8	29.5	25	34.3	45.9	42.9	5/11/2021 14:31
12	5	47.8	130	64.8	53.7	48.6	42.1	38.6	33.5	29.5	23.7	34.3	45.9	42.9	5/11/2021 14:31
12	6	48.1	132	66.3	54.6	49.7	44.6	39.6	34.1	30.5	26.1	34.3	45.9	42.9	5/11/2021 14:31
12	7	48	131	66.5	54.3	50.1	42.8	38.9	33.5	29.7	26.8	34.3	45.9	42.9	5/11/2021 14:31
12	8	48.2	139	66.7	54.4	50.1	44.6	38.8	34	30.1	25.2	34.3	45.9	42.9	5/11/2021 14:31
12	9	48	123	64	53.1	48.5	42.5	37.6	33.3	30.1	23.8	34.3	45.9	42.9	5/11/2021 14:31
12	10	48.1	126	66.4	54	50	42.9	36.5	32.8	28.8	26.4	34.3	45.9	42.9	5/11/2021 14:31
10	1	47.4	287	152	96.4	71.4	54.5	48.3	38	31.2	27.4	34.6	44.9	42.9	5/11/2021 16:55
10	2	47.4	284	150	96.4	71.6	55.5	47.8	37.9	31.6	27.8	34.6	44.9	42.9	5/11/2021 16:55
10	3	47.2	290	146	93.6	70	52.5	44.3	37.5	33.4	28.6	34.6	44.9	42.9	5/11/2021 16:55
10	4	47.5	289	145	93.3	70.4	53.8	46.5	38.1	32.3	28.1	34.6	44.9	42.9	5/11/2021 16:55
10	5	47.3	283	144	93.2	70.3	54.6	45.7	37.2	31.7	28.2	34.6	44.9	42.9	5/11/2021 16:55
10	6	47.4	282	145	94.9	70.8	55.6	46.1	37	32	28.2	34.6	44.9	42.9	5/11/2021 16:55
10	7	47.4	277	144	94.7	70.4	55.1	46.7	36.2	31.4	27.5	34.6	44.9	42.9	5/11/2021 16:55

10	8	47.5	279	144	94.1	70.7	55.4	46.8	35.9	31.4	28.4	34.6	44.9	42.9	5/11/2021 16:55
10	9	47.5	279	144	94.6	70.6	55.7	47.9	36.9	32.2	28.1	34.6	44.9	42.9	5/11/2021 16:55
10	10	48	279	144	93.7	70.8	55.5	49.7	38.3	32.9	28.3	34.6	44.9	42.9	5/11/2021 16:55
11	1	47.8	191	87.4	65.9	58.6	51.7	43.1	36.2	31.9	27.4	34.9	44.9	42.9	5/11/2021 16:56
11	2	47.7	188	86.2	65.1	57.6	50.3	42.6	35.9	31.1	26.4	34.9	44.9	42.9	5/11/2021 16:56
11	3	47.5	183	84.5	64.1	56.9	49.7	41.8	35.6	30.7	26.5	34.9	44.9	42.9	5/11/2021 16:56
11	4	47.6	180	85.1	64.3	57.5	50.3	42.3	36.3	25.3	26.6	34.9	44.9	42.9	5/11/2021 16:56
11	5	49.2	191	88.4	66.8	59.7	51.6	43.9	37.1	31.3	26.7	34.9	44.9	42.9	5/11/2021 16:56
11	6	47.6	181	85.2	64.9	57.9	49.2	42	35.6	30.4	26.5	34.9	44.9	42.9	5/11/2021 16:56
11	7	47.6	186	85.9	65.2	58.3	49.4	42.8	36.4	30.8	26.5	34.9	44.9	42.9	5/11/2021 16:56
11	8	47.8	185	86	65	58.1	49.4	42.2	36.2	37.2	27.6	34.9	44.9	42.9	5/11/2021 16:56
11	9	48.6	183	86	65.3	58.3	50.3	42.5	36.4	31	26.7	34.9	44.9	42.9	5/11/2021 16:56
11	10	47.7	183	86.1	65.3	58.5	49.7	42.5	36.3	30.7	26.6	34.9	44.9	42.9	5/11/2021 16:56
10	1	46.8	262	118	79.9	64	52.5	44.6	37.6	31.9	27.7	36.4	44.9	42.9	6/29/2021 16:56
10	2	46.9	264	120	80.3	64.4	53.5	43.8	36.6	31.5	27.2	36.4	44.9	42.9	6/29/2021 16:56
10	3	46.8	262	119	79.8	64	53.9	44.7	37.6	30.9	27.3	36.4	44.9	42.9	6/29/2021 16:56
10	4	46.7	265	119	80.1	64.4	53.4	44.3	37.1	31	27.2	36.4	44.9	42.9	6/29/2021 16:56
10	5	46.5	261	117	79.7	63.9	52.8	43.6	35.9	30.7	26.4	36.4	44.9	42.9	6/29/2021 16:56
10	6	46.4	257	116	78.8	63.3	51.4	41.3	34.6	30.7	27.1	36.4	44.9	42.9	6/29/2021 16:56
10	7	46.7	261	117	79.5	64.2	52.3	42.5	35.6	31.4	27.3	36.4	44.9	42.9	6/29/2021 16:56
10	8	47.3	262	117	80.3	64.7	52.6	44.9	36.7	31.4	27.2	36.4	44.9	42.9	6/29/2021 16:56
10	9	47.1	260	116	79.5	64.2	52	43.6	36.7	31.8	28.2	36.4	44.9	42.9	6/29/2021 16:56
10	10	47.2	265	118	80.9	64.5	52.4	44.1	36.7	31.5	27.9	36.4	44.9	42.9	6/29/2021 16:56
9	1	47.4	89.5	52.9	46.7	42.7	37.1	33	29.5	25.7	22.8	36.3	45	43	6/29/2021 16:55
9	2	47.4	89.4	53.4	47.2	43.2	37.5	33.2	30	26.4	23.6	36.3	45	43	6/29/2021 16:55
9	3	47.3	89.3	52.4	46.2	42.4	36.5	32.7	29.2	25.4	22.3	36.3	45	43	6/29/2021 16:55
9	4	47.4	86	51.9	44.9	41.9	36.5	30.9	28.3	25.2	22.8	36.3	45	43	6/29/2021 16:55
9	5	47.3	81.1	51.6	45.3	41.9	36.2	31.8	28.7	25.3	22.5	36.3	45	43	6/29/2021 16:55
9	6	47.3	88.1	51.9	44.5	42.3	36.3	31.2	28.8	26.6	23.5	36.3	45	43	6/29/2021 16:55
9	7	47.1	84.7	52.1	44.7	42.2	36.9	32.2	29	26.9	22.4	36.3	45	43	6/29/2021 16:55
9	8	47.3	90.1	52.5	45	42.4	37.5	33.7	29.3	27.2	22.7	36.3	45	43	6/29/2021 16:55
9	9	48.2	92.2	54.1	47.8	44.1	38.5	34.5	30.1	27.4	23.4	36.3	45	43	6/29/2021 16:55
9	10	47	93	52.3	44.9	42.2	37.6	34	30	29.4	22.9	36.3	45	43	6/29/2021 16:55
12	1	47.8	130	64.7	51.8	48.3	42.6	38.6	33.7	29.4	25.6	36.6	45	43	6/29/2021 16:57
12	2	47.6	132	64.7	51.9	48.2	43.8	40.2	33.4	29.2	26.7	36.6	45	43	6/29/2021 16:57
12	3	47.3	130	63.4	51.1	47.4	42.1	37.8	32.9	28.8	25.1	36.6	45	43	6/29/2021 16:57
12	4	47.5	132	64.2	52.1	48	43.4	38.7	32.8	28.5	26	36.6	45	43	6/29/2021 16:57
12	5	47.2	132	63.4	50.8	47.5	42	37.3	32.9	28.8	25.2	36.6	45	43	6/29/2021 16:57
12	6	47.4	133	63.4	51.8	47.7	42.3	37	32.5	28.9	25.5	36.6	45	43	6/29/2021 16:57
12	7	47.3	132	63.1	51.6	47.4	41.8	36.6	32.6	28.8	25.5	36.6	45	43	6/29/2021 16:57
12	8	48.2	135	64.7	52.9	48.8	44	38.4	33.7	29.6	26.5	36.6	45	43	6/29/2021 16:57
12	9	48.2	135	64.8	52.8	48.9	43.6	38.2	33.6	29.5	26.7	36.6	45	43	6/29/2021 16:57
12	10	47.4	133	63.9	52	48.2	43.4	37.7	33.6	29.2	26	36.6	45	43	6/29/2021 16:57
7	1	47.3	237	105	77.9	66	53.2	44.8	38.3	32	27.4	36.4	45.2	43.2	6/29/2021 16:53
7	2	47.3	234	104	77.3	65.3	53.1	44.7	38.2	31.9	27.5	36.4	45.2	43.2	6/29/2021 16:53
7	3	47.1	229	103	76.5	64.8	51.6	43.1	37.6	31.9	27.3	36.4	45.2	43.2	6/29/2021 16:53
7	4	47.4	228	102	76.6	65.1	51.9	43.5	38.4	33.2	28.1	36.4	45.2	43.2	6/29/2021 16:53
7	5	48.2	235	104	78	66.3	54.9	45.4	38.7	33.1	28.2	36.4	45.2	43.2	6/29/2021 16:53
7	6	47.3	228	102	76.4	64.7	53	44.1	37.2	31.5	27.4	36.4	45.2	43.2	6/29/2021 16:53
7	7	47	227	101	75.5	64.2	51.2	42.6	37.6	32.5	27.6	36.4	45.2	43.2	6/29/2021 16:53

7	8	47.3	228	102	76.5	65.4	53.9	44.3	35.9	30.8	26.6	36.4	45.2	43.2	6/29/2021 16:53
7	9	47.1	232	103	76.6	65.3	52.3	43.2	36.7	31.6	26.9	36.4	45.2	43.2	6/29/2021 16:53
7	10	47.1	230	102	76.5	65.3	52.5	43.5	36.8	32.1	27.1	36.4	45.2	43.2	6/29/2021 16:53
11	1	47.3	185	74.5	58	52.9	47.9	41.5	34.9	31.2	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	2	47.7	183	74.3	58.3	53.4	47.9	41.6	34.8	31	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	3	47	182	73.5	57.8	52.8	47.4	41.2	35.4	30.7	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	4	47.1	184	73.6	57.8	52.8	47.4	41.1	35.4	30.8	26.7	36.4	45.2	43.2	6/29/2021 16:57
11	5	47.2	184	74.6	58.4	53.5	49.3	41.6	35.5	30.1	27.1	36.4	45.2	43.2	6/29/2021 16:57
11	6	47	181	73.5	57.8	53	47.4	41.1	35.8	30.7	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	7	47.1	177	73.5	57.8	53	46.8	41.1	35.5	30.7	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	8	47	181	72.6	58.1	52.9	46.5	40.7	36	29.8	26.6	36.4	45.2	43.2	6/29/2021 16:57
11	9	47.1	177	73.1	58.3	53.4	48.3	40.9	36.6	30	26.7	36.4	45.2	43.2	6/29/2021 16:57
11	10	47.1	179	73.6	58.4	53	47.8	40.3	36	29.3	26.2	36.4	45.2	43.2	6/29/2021 16:57
8	1	47.8	153	70.3	59.4	54	45.7	39	36.2	29.3	25.4	36.4	45.3	43.3	6/29/2021 16:54
8	2	47.5	150	70	59.5	54.2	45.7	39.3	35.7	29.5	25.5	36.4	45.3	43.3	6/29/2021 16:54
8	3	47.2	146	68	58	52.6	44.1	37.7	33.5	28.3	24.2	36.4	45.3	43.3	6/29/2021 16:54
8	4	47.2	146	68.2	58.4	53	44.6	38.4	34.2	28.8	25	36.4	45.3	43.3	6/29/2021 16:54
8	5	48.1	153	69.6	59.7	54.4	45.7	39.8	35.1	29.8	25.2	36.4	45.3	43.3	6/29/2021 16:54
8	6	48.1	154	68.6	58.9	53.6	45	39.6	34.4	28.9	25.2	36.4	45.3	43.3	6/29/2021 16:54
8	7	47.6	152	68.9	59	54	45.5	39.9	34.6	29	25.4	36.4	45.3	43.3	6/29/2021 16:54
8	8	47.5	147	67.3	58.1	53.1	44.7	39.6	34	28.6	24.9	36.4	45.3	43.3	6/29/2021 16:54
8	9	47.3	148	67	57.9	52.9	44.3	38.6	33.6	28.8	24.9	36.4	45.3	43.3	6/29/2021 16:54
8	10	47	158	67.2	58.1	53	44.2	38.6	33.3	29	24.8	36.4	45.3	43.3	6/29/2021 16:54
7	1	47.9	244	110	82.2	68.6	54.5	45	38.7	33.1	27.3	34	45.4	43.4	5/11/2021 16:53
7	2	48.4	240	110	82.7	69.5	56.1	46.2	39.6	33.8	28.4	34	45.4	43.4	5/11/2021 16:53
7	3	47.7	241	109	82	68.9	54.7	45.3	38.5	33	27.3	34	45.4	43.4	5/11/2021 16:53
7	4	47.9	241	109	82.2	69.1	55	45.5	38.6	33.1	28.1	34	45.4	43.4	5/11/2021 16:53
7	5	47.8	239	108	81.3	68.5	54.6	45.2	38.5	33.6	29.2	34	45.4	43.4	5/11/2021 16:53
7	6	48.1	245	111	83.1	70.2	57	46.9	39.4	34.9	28.7	34	45.4	43.4	5/11/2021 16:53
7	7	48.1	242	111	83.2	70.1	56.9	47.3	40.7	33.2	28.4	34	45.4	43.4	5/11/2021 16:53
7	8	48.1	233	109	81.9	69	55.8	46.1	39.4	32.7	28.5	34	45.4	43.4	5/11/2021 16:53
7	9	47.9	235	108	81.5	68.6	55.2	45.9	38	32.5	28.5	34	45.4	43.4	5/11/2021 16:53
7	10	47.9	242	107	81	68.4	54.7	45.5	37.9	32.4	28.2	34	45.4	43.4	5/11/2021 16:53
9	1	47.9	99.8	60.8	52.6	48.6	42	36.6	33.3	28.1	25	34.4	45.4	43.4	5/11/2021 16:54
9	2	48.3	101	61.3	53.1	49.2	42.3	37.5	33.3	28.3	25.4	34.4	45.4	43.4	5/11/2021 16:54
9	3	48.1	100	60.5	52.4	48.4	41.7	36.9	32.4	27.9	25	34.4	45.4	43.4	5/11/2021 16:54
9	4	49.1	102	62.6	53.9	50.1	42.8	37.6	33.2	28.5	25.7	34.4	45.4	43.4	5/11/2021 16:54
9	5	48.9	103	60.9	52.5	48.9	42.1	36.4	33.1	28.1	25.1	34.4	45.4	43.4	5/11/2021 16:54
9	6	48	99.4	59.3	51.8	47.5	41.2	36.8	32.2	28	24.7	34.4	45.4	43.4	5/11/2021 16:54
9	7	48.1	100	59.3	52.1	47.5	41.5	37.1	32.2	27.9	25.1	34.4	45.4	43.4	5/11/2021 16:54
9	8	49.1	104	61.8	54.1	49.4	42.9	39.3	33.6	29.2	26	34.4	45.4	43.4	5/11/2021 16:54
9	9	48.2	101	60.2	52.7	48.5	41.9	38.4	32.8	28.2	25.5	34.4	45.4	43.4	5/11/2021 16:54
9	10	48	101	59.3	52.1	47.9	41.7	37.1	32.8	28	25.1	34.4	45.4	43.4	5/11/2021 16:54
5	1	47.6	159	68.9	52.8	47	40.7	35.8	31.3	27.2	23.7	36.1	45.4	43.4	6/29/2021 16:52
5	2	47.6	155	66.9	51.4	45.8	38.7	34.6	30.3	26.6	23.1	36.1	45.4	43.4	6/29/2021 16:52
5	3	48	155	67.9	52.7	47.5	40.5	35.8	31.6	26.9	24	36.1	45.4	43.4	6/29/2021 16:52
5	4	47.8	156	67.6	52.6	47.3	40.4	35.6	31.8	25.2	24.3	36.1	45.4	43.4	6/29/2021 16:52
5	5	47.4	156	66.5	51.7	46.1	39	34.9	30.1	25.8	23.1	36.1	45.4	43.4	6/29/2021 16:52
5	6	47.5	155	66	51.5	45.9	39.3	35	30.2	26.1	23.2	36.1	45.4	43.4	6/29/2021 16:52
5	7	47.6	155	65.8	51.7	45.6	39.1	35	30.6	26.8	24.3	36.1	45.4	43.4	6/29/2021 16:52

5	8	47.7	159	66.6	52.2	46.4	39.9	35.5	31	26.7	24.1	36.1	45.4	43.4	6/29/2021 16:52
5	9	47.8	162	66.8	52.6	46.9	40.2	35.6	31.1	27.4	24	36.1	45.4	43.4	6/29/2021 16:52
5	10	47.5	155	65.6	51.6	45.5	38.5	35.1	30.6	26.3	23.9	36.1	45.4	43.4	6/29/2021 16:52
6	1	48	84.8	47.7	41.3	38.2	35.2	32.8	28.3	24.9	22.3	36.3	45.5	43.5	6/29/2021 16:52
6	2	47.9	82.7	46.8	40.3	37.5	34.5	31.6	27.7	24	21.7	36.3	45.5	43.5	6/29/2021 16:52
6	3	47.8	84.3	46.7	40.5	37.7	34.2	31.7	27.3	24.3	21.6	36.3	45.5	43.5	6/29/2021 16:52
6	4	47.9	83	46.4	40.5	38.1	33.8	31.1	27.8	23.5	21.8	36.3	45.5	43.5	6/29/2021 16:52
6	5	47.9	82.8	46.6	40.7	37.2	34.2	31.6	28.2	25.3	22.2	36.3	45.5	43.5	6/29/2021 16:52
6	6	47.7	83.6	45.8	40.4	36.5	33.2	30.7	27.3	23.9	21.2	36.3	45.5	43.5	6/29/2021 16:52
6	7	47.5	82.5	45.5	40.1	36.9	33.7	31.9	27.1	23.6	21.2	36.3	45.5	43.5	6/29/2021 16:52
6	8	48	81.6	45.9	40.1	36.8	33.9	32.5	27.3	24.1	21.8	36.3	45.5	43.5	6/29/2021 16:52
6	9	47.6	89	45	39.3	36.6	33.4	31.2	26.9	24.6	21.8	36.3	45.5	43.5	6/29/2021 16:52
6	10	47.6	83.3	45.4	39.6	37.1	33.8	31.3	27.2	24.5	21.3	36.3	45.5	43.5	6/29/2021 16:52
6	1	48	87.5	47.1	41.3	38.2	33.4	30.3	27.3	24.2	21.5	40.2	46.7	43.7	6/29/2021 14:26
6	2	49.2	88.2	47.8	42	39	34.3	31	27.9	24.9	21.7	40.2	46.7	43.7	6/29/2021 14:26
6	3	48.5	88.5	47	41.4	38.4	34	30.7	27.6	24.6	21.6	40.2	46.7	43.7	6/29/2021 14:26
6	4	48.2	86.2	46.3	40.8	37.9	33.4	29.9	27.2	24.8	21.6	40.2	46.7	43.7	6/29/2021 14:26
6	5	48.3	90.2	46.6	41.3	38.3	33.9	30.4	27.6	24.9	22	40.2	46.7	43.7	6/29/2021 14:26
6	6	48.4	89.4	47.3	41.4	38.3	34.1	30.5	28.1	25.3	22.6	40.2	46.7	43.7	6/29/2021 14:26
6	7	48.4	89	46.7	41.3	38.5	33.9	30.3	27.7	24.5	21.9	40.2	46.7	43.7	6/29/2021 14:26
6	8	48.4	89.9	46.9	41.3	38.4	34	30.4	27.6	25.1	21.7	40.2	46.7	43.7	6/29/2021 14:26
6	9	48.5	89.8	47.2	41.8	39	34.2	30.7	27.9	24.9	21.8	40.2	46.7	43.7	6/29/2021 14:26
6	10	48.2	90	46.4	41.2	38.2	33.5	30	27	24.1	20.9	40.2	46.7	43.7	6/29/2021 14:26
5	1	48.7	160	70.2	55.8	49.5	42.7	37.2	32.1	29.1	24.1	32.8	45.9	43.9	5/11/2021 16:50
5	2	49.1	160	71.1	56.9	50.6	43.7	38	33	28.6	25	32.8	45.9	43.9	5/11/2021 16:50
5	3	49.5	157	70.6	57.4	50.9	44.2	38.8	33	29.2	26	32.8	45.9	43.9	5/11/2021 16:50
5	4	49.5	163	70.2	57	50.4	43.5	37.8	32.5	28.1	24.4	32.8	45.9	43.9	5/11/2021 16:50
5	5	48.4	158	68.8	55.3	49.1	42.5	36.6	32.2	27.6	24.4	32.8	45.9	43.9	5/11/2021 16:50
5	6	49.2	152	69	55.8	49.6	42.9	37.5	32.5	29.3	24.9	32.8	45.9	43.9	5/11/2021 16:50
5	7	49.3	161	70.9	57	50.8	43.5	38.6	33	28.5	24.7	32.8	45.9	43.9	5/11/2021 16:50
5	8	49.4	163	70.4	56.6	50.7	43.6	39.8	32.9	28.5	24.9	32.8	45.9	43.9	5/11/2021 16:50
5	9	48.5	156	69.2	55.8	49.7	42.6	38.4	32.3	27.8	24.4	32.8	45.9	43.9	5/11/2021 16:50
5	10	48.5	157	69.6	56.2	50.2	43.1	39.4	32.8	28.3	24.8	32.8	45.9	43.9	5/11/2021 16:50
4	1	48.4	185	91	68.3	60.3	50.8	43.3	36.4	30.5	26.4	32.2	46	44	5/11/2021 16:49
4	2	48.6	186	92.2	68.8	60.7	51.3	43.6	36.9	30.9	26.9	32.2	46	44	5/11/2021 16:49
4	3	49.3	183	92.6	69.6	61.4	52.9	44.1	37.1	30.6	26.3	32.2	46	44	5/11/2021 16:49
4	4	49.7	179	90.5	69.1	60.5	50.5	43.1	36.3	30	26	32.2	46	44	5/11/2021 16:49
4	5	49.1	179	90	68.9	60.6	49.9	42.6	35.8	30.6	25.9	32.2	46	44	5/11/2021 16:49
4	6	49.1	182	90.2	69	60.9	50	43	36.4	31.3	26.2	32.2	46	44	5/11/2021 16:49
4	7	48.6	182	91.1	69.2	60.5	54.1	43.4	35.8	30.1	24.4	32.2	46	44	5/11/2021 16:49
4	8	48.4	179	88.4	68	59.5	48.8	41.2	34.9	30.2	25.9	32.2	46	44	5/11/2021 16:49
4	9	48.5	183	90.8	68.9	60.2	50.6	42.1	33.9	30.2	25.9	32.2	46	44	5/11/2021 16:49
4	10	48	179	87.7	67.4	59	48.8	41.5	33.2	30.3	25.4	32.2	46	44	5/11/2021 16:49
6	1	48.2	90.3	52.6	45.4	41.3	37.3	33.6	29.5	26.3	23.3	33.5	46.1	44.1	5/11/2021 16:52
6	2	48.4	85.8	52.7	45.7	41.8	37.7	33.9	29.6	26.4	23.1	33.5	46.1	44.1	5/11/2021 16:52
6	3	48.4	92.1	53.3	46.2	42.5	37.9	34.1	30	26.6	23.6	33.5	46.1	44.1	5/11/2021 16:52
6	4	48	90.8	52.2	45.5	41.6	37.1	33.5	29.3	26.6	23	33.5	46.1	44.1	5/11/2021 16:52
6	5	48.7	93.7	52.5	45.8	42.1	37.3	33.5	29.3	26.8	22.8	33.5	46.1	44.1	5/11/2021 16:52
6	6	48.8	90.3	52.8	46.4	42.4	37.7	34.1	29.6	27.2	23	33.5	46.1	44.1	5/11/2021 16:52
6	7	48.3	91.4	53.2	46.9	43.1	38.2	34.6	30.4	27.2	23.7	33.5	46.1	44.1	5/11/2021 16:52

6	8	48.4	91.9	52.9	46.5	42.4	37.8	33.9	30	27.1	23.3	33.5	46.1	44.1	5/11/2021 16:52
6	9	49.1	90.5	52.5	46.1	42.6	38	34.1	30.2	27.5	24	33.5	46.1	44.1	5/11/2021 16:52
6	10	48	85.6	51.6	44.8	41.6	37.2	34.2	29.6	26.8	24.8	33.5	46.1	44.1	5/11/2021 16:52
12	1	48	141	70.9	57.4	52.7	47.2	39.8	35.8	30.5	27	35.2	46.1	44.1	5/11/2021 16:56
12	2	47.8	141	70.3	56.6	51.9	45.9	39.8	35.2	29.9	26.2	35.2	46.1	44.1	5/11/2021 16:56
12	3	47.7	139	69.6	56.3	51.6	44.7	39.8	34.9	30.5	26.2	35.2	46.1	44.1	5/11/2021 16:56
12	4	47.9	139	69.4	56.4	51.9	45.6	40.4	35.1	30.2	26.5	35.2	46.1	44.1	5/11/2021 16:56
12	5	48.1	142	70.1	56.8	52	45.6	40.5	35	30.4	26.3	35.2	46.1	44.1	5/11/2021 16:56
12	6	48	142	70.3	56.9	52.1	45.7	40	35.2	30.6	26.9	35.2	46.1	44.1	5/11/2021 16:56
12	7	48	138	69	56.3	51.8	44.9	40.5	35.3	30.3	26.6	35.2	46.1	44.1	5/11/2021 16:56
12	8	47.9	137	67.5	55.6	50.8	43.6	38.8	34.5	30.1	26.6	35.2	46.1	44.1	5/11/2021 16:56
12	9	47.9	139	69	56.4	51.5	45.3	38.7	34	29.6	25.7	35.2	46.1	44.1	5/11/2021 16:56
12	10	47.9	150	69.5	56.8	51.7	45.7	37.5	34.2	29	25.8	35.2	46.1	44.1	5/11/2021 16:56
4	1	47.7	169	83.9	63.1	56.1	45.6	40.2	34.9	29.6	25.7	36	46.1	44.1	6/29/2021 16:51
4	2	47.7	169	82.3	62.3	55.2	45.5	40.4	33.8	28.5	24.6	36	46.1	44.1	6/29/2021 16:51
4	3	48	169	83.1	63.1	56.2	46.7	39.8	34.9	30.2	25.7	36	46.1	44.1	6/29/2021 16:51
4	4	47.8	167	82	62.8	55.8	48.4	40.8	34.2	28.6	24.7	36	46.1	44.1	6/29/2021 16:51
4	5	47.7	164	80	62.2	55.4	45.8	39.8	33.8	28.4	24.9	36	46.1	44.1	6/29/2021 16:51
4	6	47.7	161	79.6	62.2	55.4	45.8	39.8	34	25.5	25.2	36	46.1	44.1	6/29/2021 16:51
4	7	47.9	164	79.2	62.3	55.6	46.3	40	34.3	28.8	25.5	36	46.1	44.1	6/29/2021 16:51
4	8	48	169	80.6	63	56.2	47.2	40.6	34.6	29.7	25.7	36	46.1	44.1	6/29/2021 16:51
4	9	47.9	167	80.9	63	55.7	47.1	40.4	34.2	29.5	24.8	36	46.1	44.1	6/29/2021 16:51
4	10	47.8	168	83	63.2	56.1	47.8	40.6	33.8	28.5	23.6	36	46.1	44.1	6/29/2021 16:51
5	1	47.7	146	62.1	48.4	42.9	36.9	33.7	29.1	25	22.2	40.4	47.3	44.3	6/29/2021 14:25
5	2	48.3	150	63.8	49.9	44.3	38.4	34.8	30.7	27	23.9	40.4	47.3	44.3	6/29/2021 14:25
5	3	48.3	150	64	49.7	44.5	37.3	33	29.3	25.6	22.6	40.4	47.3	44.3	6/29/2021 14:25
5	4	48.1	149	62.4	48.9	43.6	37.1	34.1	30.4	26	22.7	40.4	47.3	44.3	6/29/2021 14:25
5	5	48.3	148	62.7	49.1	43.8	37.8	33.4	30.7	26.1	23.3	40.4	47.3	44.3	6/29/2021 14:25
5	6	48.1	149	62.7	48.9	43.7	37.8	33.5	30	25.7	22.2	40.4	47.3	44.3	6/29/2021 14:25
5	7	48.1	148	62.2	48.8	43.5	37.4	33.8	30.4	25.4	22.1	40.4	47.3	44.3	6/29/2021 14:25
5	8	48.1	159	62.9	49.4	44.1	37.9	33	30.1	25.7	23	40.4	47.3	44.3	6/29/2021 14:25
5	9	48.2	146	62.8	49.3	43.9	38.7	34.5	30.7	26	22.9	40.4	47.3	44.3	6/29/2021 14:25
5	10	48.2	150	63.2	49.5	44.1	38.4	34.6	30.9	26	22.7	40.4	47.3	44.3	6/29/2021 14:25
12	1	47.6	129	62.2	50.7	46.7	41.1	36.3	32.8	28.3	24.9	40.5	47.8	44.8	6/29/2021 14:31
12	2	48.3	128	62.1	50.9	47	41.3	36.6	32.9	28.5	25.2	40.5	47.8	44.8	6/29/2021 14:31
12	3	47.5	128	61.6	49.9	46.1	40.5	35.5	31.9	28.2	25	40.5	47.8	44.8	6/29/2021 14:31
12	4	48.4	131	62.8	51.2	47.2	41.9	36.7	32.9	30.9	25	40.5	47.8	44.8	6/29/2021 14:31
12	5	47.5	126	60.2	49.5	45.9	40.2	35.4	31.6	28.4	25.2	40.5	47.8	44.8	6/29/2021 14:31
12	6	47.4	126	59.8	49.4	45.7	40	35.3	31.5	28.6	24.6	40.5	47.8	44.8	6/29/2021 14:31
12	7	47.6	125	59.3	48.8	45.4	39.3	34.8	31	28.3	24.6	40.5	47.8	44.8	6/29/2021 14:31
12	8	48.5	129	61.2	50.3	46.6	41.7	36.2	32.1	28.1	24.8	40.5	47.8	44.8	6/29/2021 14:31
12	9	47.7	128	60.4	49.9	45.9	40.7	35	30.4	27.3	24.3	40.5	47.8	44.8	6/29/2021 14:31
12	10	49.1	129	62.8	51.7	47.8	43.8	38.1	33.5	29.4	25.7	40.5	47.8	44.8	6/29/2021 14:31
9	1	48.2	100	56.2	49	44.2	38.4	34.3	30.6	27.1	24.2	40.1	48.3	45.3	6/29/2021 14:29
9	2	48.1	99.1	55.4	48	43.9	38.1	34.2	30.1	26.2	23.7	40.1	48.3	45.3	6/29/2021 14:29
9	3	47.9	98.7	55.1	47.8	43.6	37.9	34.1	29.1	26.1	23.1	40.1	48.3	45.3	6/29/2021 14:29
9	4	47.9	102	55.1	47.7	43.5	37.9	33.1	29.1	26	22.7	40.1	48.3	45.3	6/29/2021 14:29
9	5	49	103	56.2	49	44.4	38.7	35.4	30.4	26.9	23.5	40.1	48.3	45.3	6/29/2021 14:29
9	6	48	97.7	54.7	47.4	43.7	38.5	32.9	29.3	26.1	23.7	40.1	48.3	45.3	6/29/2021 14:29
9	7	48.1	98.6	53.7	46.8	43.1	37.7	32.8	29	25.8	22.9	40.1	48.3	45.3	6/29/2021 14:29

9	8	48.8	104	57.3	49.8	44.5	39.7	34.3	30.5	24.8	23.1	40.1	48.3	45.3	6/29/2021 14:29
9	9	48.1	102	55.1	48.1	44.2	39.4	34	30.3	26.6	23.8	40.1	48.3	45.3	6/29/2021 14:29
9	10	47.8	97.6	54.3	47.4	43	37.5	33.1	29.3	25.7	22.8	40.1	48.3	45.3	6/29/2021 14:29
10	1	47.8	258	138	89.4	67.2	52.3	44.7	38.4	32.4	27.7	40.4	48.7	45.7	6/29/2021 14:30
10	2	48.1	260	139	90.9	68.1	53.1	45.1	38.5	32.6	27.7	40.4	48.7	45.7	6/29/2021 14:30
10	3	47.3	255	135	88.6	66.6	52.2	43.7	37.2	30.9	27.2	40.4	48.7	45.7	6/29/2021 14:30
10	4	47.3	255	133	87.9	65.8	52.1	44.2	37.8	30.5	27.2	40.4	48.7	45.7	6/29/2021 14:30
10	5	47.2	257	134	88.1	66.5	53.1	44.1	37.6	30.8	26.8	40.4	48.7	45.7	6/29/2021 14:30
10	6	47.2	256	133	87.8	66.7	53.3	44.2	37.7	30.8	27.1	40.4	48.7	45.7	6/29/2021 14:30
10	7	48.2	258	133	88.8	66.5	51.7	44	37.6	26.3	28.5	40.4	48.7	45.7	6/29/2021 14:30
10	8	48.3	266	136	90.6	67.3	52.8	44.5	38.2	32.8	28.9	40.4	48.7	45.7	6/29/2021 14:30
10	9	47.3	257	132	87.6	65.7	52.3	44.4	38	31.9	28.2	40.4	48.7	45.7	6/29/2021 14:30
10	10	47.2	259	132	88.2	65.2	52.3	44.5	38.1	32	27.4	40.4	48.7	45.7	6/29/2021 14:30
11	1	47.5	176	75.5	57.9	52.7	46.4	40.9	36	30.2	26.3	40.6	48.7	45.7	6/29/2021 14:31
11	2	47.7	173	75.7	58.7	53.6	47.3	41.8	36.4	30.9	26.9	40.6	48.7	45.7	6/29/2021 14:31
11	3	47.4	175	75.5	58.3	53	46.5	40.8	35.6	29.7	25.7	40.6	48.7	45.7	6/29/2021 14:31
11	4	47.6	173	75.2	58	52.9	46.5	40.4	35.5	29.7	26.7	40.6	48.7	45.7	6/29/2021 14:31
11	5	47.6	175	75.2	58.4	53.4	46.4	39.9	34.6	29.3	25.8	40.6	48.7	45.7	6/29/2021 14:31
11	6	47.5	175	74.6	58	53.3	46.4	39.7	34.7	29.2	25.8	40.6	48.7	45.7	6/29/2021 14:31
11	7	47.4	174	74	57.5	52.9	46.1	39.7	34.6	29.4	25.9	40.6	48.7	45.7	6/29/2021 14:31
11	8	47.4	173	73.7	57.2	52.8	45.7	39.3	34.3	29.2	25.8	40.6	48.7	45.7	6/29/2021 14:31
11	9	47.5	175	74.6	57.9	53.4	46.6	39.9	35.2	29.9	26.3	40.6	48.7	45.7	6/29/2021 14:31
11	10	48.3	175	75.1	58.4	54	47.2	40.9	36.4	30.6	26.9	40.6	48.7	45.7	6/29/2021 14:31
7	1	48.4	234	108	79.2	66.2	52.6	44.7	38.1	31.6	27.8	40.3	49.2	46.2	6/29/2021 14:27
7	2	48.9	233	109	79.7	67.1	54.6	46	38.7	31.8	28.1	40.3	49.2	46.2	6/29/2021 14:27
7	3	48.8	231	107	79.1	67.1	54.1	46	38.8	32.5	28.1	40.3	49.2	46.2	6/29/2021 14:27
7	4	48.2	230	106	78.3	66.1	52.6	44.4	38.3	32.4	28.6	40.3	49.2	46.2	6/29/2021 14:27
7	5	47.9	228	104	77.2	65.1	50.9	43	37	33	28.1	40.3	49.2	46.2	6/29/2021 14:27
7	6	48.8	234	107	78.9	66.9	53.1	44.8	38.2	31.9	28.7	40.3	49.2	46.2	6/29/2021 14:27
7	7	47.9	226	104	77	65.2	52.1	44.1	38.3	31.9	29.2	40.3	49.2	46.2	6/29/2021 14:27
7	8	47.6	224	103	75.8	64.3	51.3	43	36.8	30.7	26.6	40.3	49.2	46.2	6/29/2021 14:27
7	9	48.5	232	106	77.9	66	52.5	44	37.2	31	26.9	40.3	49.2	46.2	6/29/2021 14:27
7	10	47.7	228	103	76.2	64.4	51.2	43.1	36.5	31	27.6	40.3	49.2	46.2	6/29/2021 14:27
8	1	47.8	142	67.1	57	51.4	43.8	37.9	32.3	28.1	25.3	40.2	49.3	46.3	6/29/2021 14:28
8	2	49.1	147	69.7	59.8	54	45.6	39.4	33.8	30.4	25.9	40.2	49.3	46.3	6/29/2021 14:28
8	3	48	147	66.9	58.1	52	44.3	38.4	33	28.6	25.6	40.2	49.3	46.3	6/29/2021 14:28
8	4	48.1	145	66.1	57.5	51.8	43.7	37.9	32.5	26.6	24.8	40.2	49.3	46.3	6/29/2021 14:28
8	5	48.9	145	66.9	58	52.9	44.5	38.8	33.1	28.7	25.6	40.2	49.3	46.3	6/29/2021 14:28
8	6	48.1	146	66	57.1	52.1	43.9	37.9	32.9	28.2	25.3	40.2	49.3	46.3	6/29/2021 14:28
8	7	48.2	145	66.8	57.7	52.7	44.1	38.2	33.1	28.7	25.5	40.2	49.3	46.3	6/29/2021 14:28
8	8	49.2	153	68.3	59.6	54.2	45.4	39.5	34.2	29.3	25.1	40.2	49.3	46.3	6/29/2021 14:28
8	9	48.3	149	66.9	57.9	52.8	44.5	38.8	33.4	29	25.8	40.2	49.3	46.3	6/29/2021 14:28
8	10	48.3	150	67.3	57.9	52.9	44.8	38.6	33.5	29.1	25.9	40.2	49.3	46.3	6/29/2021 14:28

Annex B- Data of deflections and temperatures, measured by FWD device at semi-rigid pavement

Points number on the experiments	Sequence	Force	D1	D2	D3	D4	D5	D6	D7	D8	D9	Air Temperature	Surface Temperature	Asphalt Temperature	Date & Time
6	1	50	310	258	230	203	149	97	73	59	53	14	14	16	4/30/2021 7:41
6	2	50	314	258	211	202	149	95	73	60	54	14	14	16	4/30/2021 7:41
6	3	49	303	251	216	196	144	94	70	61	54	14	14	16	4/30/2021 7:41
6	4	50	309	256	229	200	145	97	55	61	54	14	14	16	4/30/2021 7:41
6	5	49	307	253	228	199	145	96	52	61	55	14	14	16	4/30/2021 7:41
6	6	50	312	258	231	202	147	98	53	62	56	14	14	16	4/30/2021 7:41
6	7	50	312	257	230	201	146	98	54	62	55	14	14	16	4/30/2021 7:41
6	8	50	311	256	229	200	146	97	52	61	54	14	14	16	4/30/2021 7:41
6	9	49	310	254	227	198	144	96	51	59	53	14	14	16	4/30/2021 7:41
6	10	50	313	258	231	202	146	100	54	62	56	14	14	16	4/30/2021 7:41
9	1	49	316	290	264	239	181	108	75	57	47	15	14	16	4/30/2021 7:44
9	2	49	307	283	260	234	178	107	78	57	46	15	14	16	4/30/2021 7:44
9	3	48	307	284	232	236	179	109	79	57	46	15	14	16	4/30/2021 7:44
9	4	49	317	289	235	240	183	112	83	63	48	15	14	16	4/30/2021 7:44
9	5	49	316	286	233	235	180	110	80	57	47	15	14	16	4/30/2021 7:44
9	6	49	311	285	237	234	180	110	80	57	48	15	14	16	4/30/2021 7:44
9	7	49	313	286	235	235	180	110	80	57	47	15	14	16	4/30/2021 7:44
9	8	49	317	286	235	235	179	109	78	56	46	15	14	16	4/30/2021 7:44
9	9	49	306	282	238	231	177	109	79	57	47	15	14	16	4/30/2021 7:44
9	10	49	305	286	245	235	180	110	81	59	47	15	14	16	4/30/2021 7:44
8	1	48	451	329	271	224	151	100	76	64	61	14	14	16	4/30/2021 7:43
8	2	48	458	329	271	225	151	100	74	65	62	14	14	16	4/30/2021 7:43
8	3	49	468	331	273	226	152	100	69	65	62	14	14	16	4/30/2021 7:43
8	4	49	461	333	275	228	155	103	71	69	67	14	14	16	4/30/2021 7:43
8	5	48	457	327	271	225	151	100	72	68	65	14	14	16	4/30/2021 7:43
8	6	48	443	328	271	224	151	99	65	66	63	14	14	16	4/30/2021 7:43
8	7	49	455	332	274	228	154	100	63	67	64	14	14	16	4/30/2021 7:43
8	8	49	449	326	272	225	153	100	69	68	66	14	14	16	4/30/2021 7:43
8	9	48	446	323	270	225	151	100	75	69	68	14	14	16	4/30/2021 7:43
8	10	49	450	324	270	224	151	100	55	67	65	14	14	16	4/30/2021 7:43
5	1	49	358	320	267	218	155	108	74	266	59	14	14	16	4/30/2021 7:39
5	2	50	350	322	270	221	158	112	75	173	60	14	14	16	4/30/2021 7:39
5	3	50	362	322	270	222	158	112	76	109	61	14	14	16	4/30/2021 7:39
5	4	50	369	322	270	222	158	111	75	93	61	14	14	16	4/30/2021 7:39
5	5	49	345	316	265	218	155	108	74	74	60	14	14	16	4/30/2021 7:39
5	6	49	349	318	268	221	155	107	74	69	55	14	14	16	4/30/2021 7:39
5	7	49	351	315	266	219	155	108	75	67	60	14	14	16	4/30/2021 7:39

5	8	49	349	317	267	220	154	106	74	63	58	14	14	16	4/30/2021 7:39
5	9	49	344	310	262	215	152	106	73	60	58	14	14	16	4/30/2021 7:39
5	10	49	344	311	262	215	152	106	73	58	59	14	14	16	4/30/2021 7:39
11	1	48	410	300	256	214	143	89	70	77	98	15	14	16	4/30/2021 7:47
11	2	48	405	298	254	212	141	89	75	84	103	15	14	16	4/30/2021 7:47
11	3	48	403	296	252	208	140	87	74	85	103	15	14	16	4/30/2021 7:47
11	4	49	412	301	256	214	141	88	75	88	107	15	14	16	4/30/2021 7:47
11	5	49	406	300	255	213	140	87	72	89	105	15	14	16	4/30/2021 7:47
11	6	49	412	301	256	211	140	87	73	88	106	15	14	16	4/30/2021 7:47
11	7	49	409	300	256	213	141	90	76	89	107	15	14	16	4/30/2021 7:47
11	8	49	412	301	256	204	140	87	73	87	104	15	14	16	4/30/2021 7:47
11	9	49	414	303	259	207	142	90	75	90	107	15	14	16	4/30/2021 7:47
11	10	49	417	301	256	205	142	90	76	90	107	15	14	16	4/30/2021 7:47
4	2	49	360	300	264	228	165	109	79	58	50	14	14	16	4/30/2021 7:38
4	3	49	382	304	267	231	167	110	84	60	50	14	14	16	4/30/2021 7:38
4	4	49	373	301	265	229	165	111	81	57	49	14	14	16	4/30/2021 7:38
4	5	49	362	301	265	229	165	112	82	57	51	14	14	16	4/30/2021 7:38
4	6	49	372	305	268	232	166	110	81	57	49	14	14	16	4/30/2021 7:38
4	7	49	363	305	268	232	167	110	81	58	50	14	14	16	4/30/2021 7:38
4	8	49	363	299	262	227	164	107	79	56	51	14	14	16	4/30/2021 7:38
4	9	49	373	303	266	231	166	109	80	58	51	14	14	16	4/30/2021 7:38
4	10	48	365	303	265	230	164	106	78	59	48	14	14	16	4/30/2021 7:38
12	1	49	265	231	216	201	174	139	136	55	49	15	15	17	4/30/2021 7:48
12	2	49	258	227	211	196	170	89	68	55	47	15	15	17	4/30/2021 7:48
12	3	50	260	231	215	200	175	94	65	57	50	15	15	17	4/30/2021 7:48
12	4	50	265	230	214	199	173	79	62	56	49	15	15	17	4/30/2021 7:48
12	5	50	258	229	213	199	172	81	62	54	47	15	15	17	4/30/2021 7:48
12	6	49	251	225	209	195	168	80	60	53	46	15	15	17	4/30/2021 7:48
12	7	49	253	225	210	195	171	83	62	54	47	15	15	17	4/30/2021 7:48
12	8	49	253	224	209	194	168	84	65	54	48	15	15	17	4/30/2021 7:48
12	9	49	253	226	211	196	169	85	64	55	48	15	15	17	4/30/2021 7:48
12	10	49	252	223	209	194	168	83	63	54	47	15	15	17	4/30/2021 7:48
7	1	49	334	262	224	203	153	114	85	62	49	14	15	17	4/30/2021 7:42
7	2	49	333	264	206	206	155	116	86	64	50	14	15	17	4/30/2021 7:42
7	3	49	326	262	204	205	155	116	85	65	51	14	15	17	4/30/2021 7:42
7	4	50	334	265	207	207	155	116	86	64	51	14	15	17	4/30/2021 7:42
7	5	50	335	267	208	210	157	118	87	66	52	14	15	17	4/30/2021 7:42
7	6	50	330	264	209	206	155	114	84	64	51	14	15	17	4/30/2021 7:42
7	7	49	327	260	204	204	153	113	83	63	50	14	15	17	4/30/2021 7:42
7	8	49	324	258	206	202	151	111	81	62	50	14	15	17	4/30/2021 7:42
7	9	49	322	257	206	201	151	112	82	64	51	14	15	17	4/30/2021 7:42
7	10	49	326	264	213	207	155	115	85	66	51	14	15	17	4/30/2021 7:42
10	1	49	276	237	210	188	144	105	77	54	45	15	15	17	4/30/2021 7:47
10	2	49	269	234	209	187	143	105	75	54	44	15	15	17	4/30/2021 7:47
10	3	49	270	233	210	187	144	105	75	55	44	15	15	17	4/30/2021 7:47
10	4	49	266	230	205	184	142	103	75	53	44	15	15	17	4/30/2021 7:47
10	5	49	277	229	205	184	142	104	76	54	45	15	15	17	4/30/2021 7:47
10	6	49	231	232	207	186	143	105	76	54	45	15	15	17	4/30/2021 7:47
10	7	49	274	231	206	186	142	104	77	52	42	15	15	17	4/30/2021 7:47
10	8	49	272	232	207	187	143	104	76	53	42	15	15	17	4/30/2021 7:47

10	9	50	271	235	209	188	145	105	78	53	44	15	15	17	4/30/2021 7:47
10	10	49	271	230	206	186	142	104	77	53	42	15	15	17	4/30/2021 7:47
6	1	50	335	273	239	206	148	95	73	63	55	19	19	19	4/30/2021 10:00
6	2	49	330	268	234	201	143	90	70	61	55	19	19	19	4/30/2021 10:00
6	3	49	333	268	235	201	143	89	71	62	55	19	19	19	4/30/2021 10:00
6	4	50	331	269	237	204	147	94	74	65	57	19	19	19	4/30/2021 10:00
6	5	49	360	269	237	203	146	95	76	64	57	19	19	19	4/30/2021 10:00
6	6	49	333	268	236	203	145	94	75	64	56	19	19	19	4/30/2021 10:00
6	7	49	338	268	236	202	144	93	75	64	56	19	19	19	4/30/2021 10:00
6	8	49	336	266	235	201	144	93	78	64	57	19	19	19	4/30/2021 10:00
6	9	51	344	274	241	207	148	96	79	66	58	19	19	19	4/30/2021 10:00
6	10	50	343	270	238	205	146	95	77	64	56	19	19	19	4/30/2021 10:00
5	1	49	354	314	265	221	163	115	77	60	56	19	19	19	4/30/2021 10:00
5	2	49	350	312	266	222	164	117	79	60	56	19	19	19	4/30/2021 10:00
5	3	49	346	308	262	222	163	115	78	65	56	19	19	19	4/30/2021 10:00
5	4	49	349	310	265	223	164	117	78	62	57	19	19	19	4/30/2021 10:00
5	5	49	352	306	262	222	163	117	78	61	57	19	19	19	4/30/2021 10:00
5	6	49	344	310	265	224	165	118	79	63	57	19	19	19	4/30/2021 10:00
5	7	49	340	308	264	223	164	118	79	62	58	19	19	19	4/30/2021 10:00
5	8	49	349	307	265	222	163	116	78	60	56	19	19	19	4/30/2021 10:00
5	9	49	341	305	264	220	162	115	78	62	58	19	19	19	4/30/2021 10:00
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12	5	45	290	261	235	203	148	100	76	57	47	38	45	42	6/29/2021 14:48
12	6	46	295	265	238	207	151	107	80	57	46	38	45	42	6/29/2021 14:48
12	7	46	288	266	232	207	151	110	80	59	48	38	45	42	6/29/2021 14:48
12	8	46	300	266	220	207	151	110	79	57	51	38	45	42	6/29/2021 14:48
12	9	46	297	266	219	207	151	109	78	57	49	38	45	42	6/29/2021 14:48
12	10	46	300	267	224	211	151	111	78	57	49	38	45	42	6/29/2021 14:48
10	1	46	261	270	246	219	170	127	94	69	48	35	44	42	5/11/2021 12:55
10	2	47	268	274	251	222	174	131	97	69	48	35	44	42	5/11/2021 12:55
10	3	47	265	274	251	222	174	129	96	67	47	35	44	42	5/11/2021 12:55
10	4	46	258	268	246	216	171	128	95	65	47	35	44	42	5/11/2021 12:55
10	5	47	261	272	243	221	174	132	97	69	49	35	44	42	5/11/2021 12:55
10	6	47	266	274	246	216	174	133	96	67	46	35	44	42	5/11/2021 12:55
10	7	47	265	272	245	208	172	133	95	67	45	35	44	42	5/11/2021 12:55
10	8	47	265	270	244	204	170	131	96	67	47	35	44	42	5/11/2021 12:55
10	9	48	271	279	252	211	177	136	98	69	47	35	44	42	5/11/2021 12:55
10	10	48	270	275	250	209	176	136	97	69	48	35	44	42	5/11/2021 12:55
8	1	46	442	344	297	252	182	127	87	65	58	37	45	42	5/11/2021 14:40
8	2	46	446	343	297	252	182	127	89	67	58	37	45	42	5/11/2021 14:40
8	3	47	477	344	297	252	182	128	91	68	59	37	45	42	5/11/2021 14:40
8	4	47	450	349	293	254	184	129	90	67	57	37	45	42	5/11/2021 14:40
8	5	46	438	341	292	249	180	128	90	68	59	37	45	42	5/11/2021 14:40
8	6	46	440	339	292	247	178	125	87	65	58	37	45	42	5/11/2021 14:40
8	7	46	441	338	292	248	178	125	87	65	57	37	45	42	5/11/2021 14:40
8	8	47	454	347	300	255	184	130	91	69	62	37	45	42	5/11/2021 14:40
8	9	46	443	339	293	249	180	127	90	67	59	37	45	42	5/11/2021 14:40
8	10	46	430	336	291	246	178	125	88	67	54	37	45	42	5/11/2021 14:40
9	1	46	296	261	242	215	163	114	84	64	50	38	45	42	6/29/2021 14:45
9	2	46	290	258	240	213	160	112	82	61	51	38	45	42	6/29/2021 14:45
9	3	45	304	255	237	210	157	107	81	60	51	38	45	42	6/29/2021 14:45
9	4	46	331	258	239	212	159	111	82	61	50	38	45	42	6/29/2021 14:45
9	5	46	306	260	241	213	162	115	84	62	49	38	45	42	6/29/2021 14:45
9	6	46	291	257	237	210	160	116	83	61	48	38	45	42	6/29/2021 14:45
9	7	46	297	256	234	209	158	116	82	61	48	38	45	42	6/29/2021 14:45
9	8	45	265	256	236	210	158	112	80	61	46	38	45	42	6/29/2021 14:45
9	9	46	300	256	238	211	159	112	80	61	46	38	45	42	6/29/2021 14:45
9	10	46	305	259	240	213	160	112	80	61	49	38	45	42	6/29/2021 14:45
5	1	47	331	305	263	221	163	119	78	58	51	36	44	42	5/11/2021 12:51
5	2	47	336	305	264	223	165	121	80	61	54	36	44	42	5/11/2021 12:51
5	3	47	330	300	260	218	160	117	80	59	52	36	44	42	5/11/2021 12:51
5	4	47	342	302	262	219	161	117	79	60	52	36	44	42	5/11/2021 12:51
5	5	47	326	301	260	218	160	116	80	59	51	36	44	42	5/11/2021 12:51
5	6	47	336	303	262	220	162	117	82	58	50	36	44	42	5/11/2021 12:51
5	7	47	324	304	263	220	162	117	82	59	52	36	44	42	5/11/2021 12:51
5	8	46	324	299	259	217	160	116	81	59	52	36	44	42	5/11/2021 12:51

5	9	46	334	299	260	217	160	117	80	59	52	36	44	42	5/11/2021 12:51
5	10	46	344	302	262	219	161	116	78	58	50	36	44	42	5/11/2021 12:51
11	1	46	406	323	283	241	173	120	77	56	52	35	44	42	5/11/2021 12:56
11	2	46	387	319	280	237	171	118	77	57	52	35	44	42	5/11/2021 12:56
11	3	46	386	315	275	234	168	117	79	55	54	35	44	42	5/11/2021 12:56
11	4	46	376	317	279	236	170	120	80	56	54	35	44	42	5/11/2021 12:56
11	5	46	378	319	281	238	172	123	82	57	55	35	44	42	5/11/2021 12:56
11	6	46	377	318	279	236	170	121	79	53	51	35	44	42	5/11/2021 12:56
11	7	46	375	319	280	237	171	122	81	53	52	35	44	42	5/11/2021 12:56
11	8	46	379	319	280	238	172	123	82	55	55	35	44	42	5/11/2021 12:56
11	9	46	378	319	280	237	170	121	80	54	54	35	44	42	5/11/2021 12:56
11	10	46	371	312	273	232	167	119	78	52	54	35	44	42	5/11/2021 12:56
8	1	46	389	317	276	232	164	116	82	61	52	39	45	42	6/29/2021 14:44
8	2	46	403	318	274	233	167	119	84	62	53	39	45	42	6/29/2021 14:44
8	3	46	380	317	270	231	166	113	80	61	53	39	45	42	6/29/2021 14:44
8	4	46	390	317	271	231	168	119	79	62	54	39	45	42	6/29/2021 14:44
8	5	45	404	313	269	231	165	116	87	63	54	39	45	42	6/29/2021 14:44
8	6	46	393	316	270	232	166	121	86	63	53	39	45	42	6/29/2021 14:44
8	7	46	396	316	270	233	167	122	88	63	54	39	45	42	6/29/2021 14:44
8	8	46	400	314	270	230	166	124	86	62	54	39	45	42	6/29/2021 14:44
8	9	45	399	309	266	227	163	123	85	61	53	39	45	42	6/29/2021 14:44
8	10	45	388	309	266	227	163	121	84	61	53	39	45	42	6/29/2021 14:44
7	1	46	320	283	259	232	179	133	99	72	52	36	46	43	5/11/2021 14:39
7	2	46	319	281	258	231	178	134	100	72	53	36	46	43	5/11/2021 14:39
7	3	46	308	279	255	229	176	129	99	71	51	36	46	43	5/11/2021 14:39
7	4	47	333	286	261	236	180	135	100	73	53	36	46	43	5/11/2021 14:39
7	5	47	298	280	257	231	177	134	100	73	54	36	46	43	5/11/2021 14:39
7	6	46	309	275	252	227	175	132	98	72	53	36	46	43	5/11/2021 14:39
7	7	46	312	277	254	229	177	133	100	73	54	36	46	43	5/11/2021 14:39
7	8	46	313	274	252	226	174	129	96	73	53	36	46	43	5/11/2021 14:39
7	9	46	315	278	255	229	177	132	98	72	54	36	46	43	5/11/2021 14:39
7	10	46	316	275	253	226	174	129	94	70	52	36	46	43	5/11/2021 14:39
6	1	46	233	228	209	179	130	92	71	57	50	38	46	43	6/29/2021 14:42
6	2	47	235	230	210	182	132	95	73	58	51	38	46	43	6/29/2021 14:42
6	3	46	234	227	208	179	130	93	71	56	49	38	46	43	6/29/2021 14:42
6	4	46	232	224	206	177	128	92	70	56	50	38	46	43	6/29/2021 14:42
6	5	46	233	225	206	178	128	91	70	54	50	38	46	43	6/29/2021 14:42
6	6	46	229	224	205	175	127	91	70	56	51	38	46	43	6/29/2021 14:42
6	7	47	229	227	208	179	129	92	71	57	51	38	46	43	6/29/2021 14:42
6	8	47	234	227	208	179	129	90	71	58	52	38	46	43	6/29/2021 14:42
6	9	46	248	225	206	176	127	89	68	55	50	38	46	43	6/29/2021 14:42
6	10	46	247	226	206	178	128	92	69	57	51	38	46	43	6/29/2021 14:42
4	1	46	331	293	259	226	164	117	83	67	52	36	46	43	5/11/2021 14:36
4	2	47	333	294	259	226	164	118	87	68	54	36	46	43	5/11/2021 14:36
4	3	46	334	292	258	224	162	116	85	68	54	36	46	43	5/11/2021 14:36
4	4	49	349	305	269	234	169	124	88	70	56	36	46	43	5/11/2021 14:36
4	5	47	343	303	266	231	167	119	85	67	54	36	46	43	5/11/2021 14:36
4	6	49	352	310	273	238	172	123	83	69	56	36	46	43	5/11/2021 14:36
4	7	47	341	300	263	229	166	119	88	67	55	36	46	43	5/11/2021 14:36
4	8	47	341	301	265	230	167	119	88	68	56	36	46	43	5/11/2021 14:36

4	9	47	342	301	266	230	166	116	85	66	54	36	46	43	5/11/2021 14:36
4	10	47	341	299	265	229	167	118	87	68	55	36	46	43	5/11/2021 14:36
4	1	47	361	315	280	240	169	120	85	67	53	35	45	43	5/11/2021 12:51
4	2	47	355	309	275	235	164	119	82	66	53	35	45	43	5/11/2021 12:51
4	3	48	361	314	280	240	169	123	85	67	55	35	45	43	5/11/2021 12:51
4	4	47	366	310	277	238	166	118	83	66	51	35	45	43	5/11/2021 12:51
4	5	47	359	312	279	240	168	118	83	67	54	35	45	43	5/11/2021 12:51
4	6	46	356	307	275	237	165	117	82	65	53	35	45	43	5/11/2021 12:51
4	7	47	361	312	280	241	168	118	84	67	53	35	45	43	5/11/2021 12:51
4	8	47	365	314	280	242	169	119	84	67	54	35	45	43	5/11/2021 12:51
4	9	47	353	310	277	239	167	114	82	66	55	35	45	43	5/11/2021 12:51
4	10	47	353	310	277	238	167	115	78	66	54	35	45	43	5/11/2021 12:51
11	1	46	416	325	287	245	178	123	78	59	55	37	46	43	5/11/2021 14:42
11	2	46	418	319	281	240	174	122	80	60	57	37	46	43	5/11/2021 14:42
11	3	45	385	315	276	237	169	120	81	58	55	37	46	43	5/11/2021 14:42
11	4	46	400	317	277	237	169	120	79	58	54	37	46	43	5/11/2021 14:42
11	5	46	397	315	275	236	169	120	85	58	56	37	46	43	5/11/2021 14:42
11	6	46	393	314	274	236	169	119	83	58	56	37	46	43	5/11/2021 14:42
11	7	46	396	317	276	238	169	120	81	57	54	37	46	43	5/11/2021 14:42
11	8	46	400	319	278	238	171	121	82	58	56	37	46	43	5/11/2021 14:42
11	9	46	399	319	278	237	170	120	81	56	54	37	46	43	5/11/2021 14:42
11	10	45	398	318	277	236	170	119	81	56	54	37	46	43	5/11/2021 14:42
11	1	45	392	333	290	243	179	123	79	52	48	38	46	43	6/29/2021 14:48
11	2	45	387	325	286	242	176	121	79	55	50	38	46	43	6/29/2021 14:48
11	3	45	388	326	287	245	177	124	78	53	51	38	46	43	6/29/2021 14:48
11	4	46	394	330	290	246	178	123	76	53	49	38	46	43	6/29/2021 14:48
11	5	45	396	327	287	243	176	121	78	52	48	38	46	43	6/29/2021 14:48
11	6	45	345	327	287	240	177	122	82	54	48	38	46	43	6/29/2021 14:48
11	7	45	391	325	285	237	175	121	79	53	46	38	46	43	6/29/2021 14:48
11	8	45	395	325	285	239	175	122	80	53	46	38	46	43	6/29/2021 14:48
11	9	45	392	327	287	241	177	123	81	53	47	38	46	43	6/29/2021 14:48
11	10	46	398	332	290	244	179	124	82	53	50	38	46	43	6/29/2021 14:48
5	1	46	319	291	246	212	156	110	77	56	49	39	46	43	6/29/2021 14:41
5	2	46	317	290	247	211	157	111	77	51	50	39	46	43	6/29/2021 14:41
5	3	46	320	289	246	210	156	108	77	52	50	39	46	43	6/29/2021 14:41
5	4	46	323	289	245	210	155	108	76	51	48	39	46	43	6/29/2021 14:41
5	5	47	303	293	247	214	158	111	78	55	50	39	46	43	6/29/2021 14:41
5	6	46	334	287	243	209	154	109	75	54	49	39	46	43	6/29/2021 14:41
5	7	46	333	288	245	210	155	109	76	54	49	39	46	43	6/29/2021 14:41
5	8	46	324	286	243	208	154	109	76	55	50	39	46	43	6/29/2021 14:41
5	9	46	329	288	246	210	155	110	77	56	51	39	46	43	6/29/2021 14:41
5	10	46	318	290	247	211	156	111	76	54	49	39	46	43	6/29/2021 14:41
10	1	46	252	282	267	234	180	135	101	73	51	38	46	43	6/29/2021 14:47
10	2	47	250	287	245	236	182	137	102	72	51	38	46	43	6/29/2021 14:47
10	3	47	254	286	243	229	180	136	102	72	51	38	46	43	6/29/2021 14:47
10	4	47	262	287	263	224	182	136	102	73	51	38	46	43	6/29/2021 14:47
10	5	47	283	286	262	235	181	137	102	72	51	38	46	43	6/29/2021 14:47
10	6	47	282	289	264	234	183	139	106	73	51	38	46	43	6/29/2021 14:47
10	7	47	303	285	261	230	181	137	104	72	50	38	46	43	6/29/2021 14:47
10	8	47	246	284	260	228	180	137	104	72	51	38	46	43	6/29/2021 14:47

10	9	47	235	289	264	232	182	139	103	72	51	38	46	43	6/29/2021 14:47
10	10	47	191	288	263	235	182	139	102	74	50	38	46	43	6/29/2021 14:47
7	1	46	298	283	254	236	178	130	98	70	52	38	47	44	6/29/2021 14:43
7	2	46	298	281	252	229	177	129	97	70	52	38	47	44	6/29/2021 14:43
7	3	46	291	279	256	229	176	128	97	70	51	38	47	44	6/29/2021 14:43
7	4	46	295	280	257	230	175	127	96	70	51	38	47	44	6/29/2021 14:43
7	5	46	296	279	256	222	174	127	96	70	51	38	47	44	6/29/2021 14:43
7	6	46	309	279	255	221	174	127	97	70	52	38	47	44	6/29/2021 14:43
7	7	46	311	280	258	224	175	127	95	70	51	38	47	44	6/29/2021 14:43
7	8	46	304	280	260	227	175	127	94	70	51	38	47	44	6/29/2021 14:43
7	9	47	278	285	267	232	177	128	94	70	51	38	47	44	6/29/2021 14:43
7	10	46	297	279	259	225	174	126	96	70	50	38	47	44	6/29/2021 14:43
4	1	46	367	318	283	245	174	117	81	64	51	39	47	44	6/29/2021 14:40
4	2	46	370	322	287	247	176	118	83	65	52	39	47	44	6/29/2021 14:40
4	3	46	364	321	285	246	174	117	83	65	52	39	47	44	6/29/2021 14:40
4	4	46	376	324	288	249	176	122	85	65	53	39	47	44	6/29/2021 14:40
4	5	47	379	327	291	251	177	121	84	65	52	39	47	44	6/29/2021 14:40
4	6	46	374	321	286	247	174	119	83	64	52	39	47	44	6/29/2021 14:40
4	7	46	372	322	286	244	175	128	89	65	52	39	47	44	6/29/2021 14:40
4	8	46	377	325	289	250	176	128	87	68	51	39	47	44	6/29/2021 14:40
4	9	46	384	325	289	249	177	129	87	63	51	39	47	44	6/29/2021 14:40
4	10	46	372	327	290	254	177	130	85	64	51	39	47	44	6/29/2021 14:40

Annex C- Data of temperatures, measured by Arduino thermometer at flexible pavement

		Sensor type DS18B20					Sensor type DHT22	
Date	Time	Surface temperature	Mid depth asphalt pavement temperature	T3	T4	Subgrade temperture	Air temperature	Humidity
19-4-2021	14-28-54	9.13	10	9.88	8.81	9.19	9.1	94.7
19-4-2021	14-29-0	9.06	10	9.88	8.81	9.13	9.1	95.2
19-4-2021	14-29-6	9.06	10	9.88	8.81	9.13	9.1	95.5
19-4-2021	14-44-0	9.13	9.88	9.81	8.81	9.44	9.1	94.7
19-4-2021	14-59-0	9	9.75	9.69	8.81	9.44	9.3	99.5
19-4-2021	15-14-0	8.88	9.63	9.63	8.88	9.44	9.2	99.8
19-4-2021	15-29-0	8.94	9.56	9.56	8.88	9.44	9.1	99.5
19-4-2021	15-44-0	9	9.56	9.56	8.88	9.5	9.1	99.7
19-4-2021	15-59-0	9	9.56	9.5	8.88	9.5	9.2	99.2
19-4-2021	16-14-0	8.94	9.56	9.5	8.88	9.56	9.2	97.5
19-4-2021	16-29-0	9.13	9.56	9.44	8.88	9.56	9	96.4
19-4-2021	16-44-0	9.31	9.56	9.44	8.88	9.56	9.2	96.2
19-4-2021	16-59-0	9.5	9.69	9.44	8.88	9.56	9.4	95.3
19-4-2021	17-14-0	9.94	9.81	9.44	8.88	9.56	9.7	94.8
19-4-2021	17-29-0	10.13	10	9.5	8.88	9.63	9.9	94.6
19-4-2021	17-44-0	10.06	10.13	9.56	8.88	9.63	10.2	93.1
19-4-2021	17-59-0	9.88	10.13	9.56	8.88	9.63	10.3	92.1
19-4-2021	18-14-0	9.5	10.06	9.63	8.88	9.63	10.4	92.1
19-4-2021	18-29-0	9.19	9.88	9.63	8.88	9.63	10.4	91.1
19-4-2021	18-44-0	9.25	9.81	9.56	8.94	9.63	10	90.7
19-4-2021	18-59-0	8.88	9.69	9.56	8.94	9.69	10.1	91.7
19-4-2021	19-14-0	8.69	9.5	9.56	8.94	9.69	9.9	92.2
19-4-2021	19-29-0	8.5	9.38	9.5	8.94	9.63	9.7	92.2
19-4-2021	19-44-0	8.38	9.31	9.44	8.94	9.75	9.6	92.6
19-4-2021	19-59-0	8.25	9.19	9.38	8.94	9.63	9.4	92.3
19-4-2021	20-14-0	8.13	9.06	9.31	8.94	9.69	9.2	92.5
19-4-2021	20-29-0	8.06	9	9.31	8.94	9.69	9.2	92.6
19-4-2021	20-44-0	7.94	8.94	9.25	8.94	9.75	9.2	92.6
19-4-2021	20-59-0	7.88	8.88	9.19	8.94	9.69	9	93.1
19-4-2021	21-14-0	7.81	8.75	9.13	8.94	9.69	8.9	93.2
19-4-2021	21-29-0	7.75	8.75	9.06	8.88	9.75	8.6	93.9
19-4-2021	21-44-0	7.75	8.69	9	8.88	9.75	8.6	94.1
19-4-2021	21-59-0	7.63	8.63	9	8.88	9.75	8.7	93.9
19-4-2021	22-14-0	7.5	8.56	8.94	8.88	9.75	8.4	95.3
19-4-2021	22-29-0	7.44	8.5	8.88	8.88	9.69	8.1	96.3
19-4-2021	22-44-0	7.38	8.44	8.81	8.81	9.69	8	97
19-4-2021	22-59-0	7.31	8.38	8.81	8.81	9.69	8	96.6
19-4-2021	23-14-0	7.06	8.31	8.75	8.81	9.69	8.2	96.3
19-4-2021	23-29-0	6.75	8.13	8.75	8.81	9.69	7.8	94.9
19-4-2021	23-44-0	6.63	8	8.63	8.75	9.69	7.3	95.2

19-4-2021	23-59-0	6.25	7.81	8.56	8.75	9.69	6.8	95.7
20-4-2021	0-14-0	6.06	7.69	8.5	8.75	9.75	6.3	95.7
20-4-2021	0-29-0	6.19	7.56	8.44	8.75	9.75	5.6	96.3
20-4-2021	0-44-0	6.13	7.5	8.38	8.69	9.75	6.2	97.1
20-4-2021	0-59-0	6.13	7.44	8.31	8.69	9.69	6	96.6
20-4-2021	1-14-0	6.25	7.44	8.25	8.63	9.69	6.1	96.4
20-4-2021	1-29-0	6.19	7.44	8.19	8.63	9.69	6.3	97.1
20-4-2021	1-44-0	6.06	7.38	8.13	8.56	9.63	6.3	96.5
20-4-2021	1-59-0	6.13	7.38	8.06	8.56	9.69	6	96.9
20-4-2021	2-14-0	6.25	7.38	8.06	8.5	9.69	6.3	97.8
20-4-2021	2-29-0	6.25	7.38	8	8.5	9.63	6.5	97.8
20-4-2021	2-44-0	6.38	7.38	8	8.5	9.69	6.8	98.6
20-4-2021	2-59-0	6.31	7.38	7.94	8.44	9.69	7	97.7
20-4-2021	3-14-0	6.31	7.38	7.94	8.38	9.63	7.1	96.9
20-4-2021	3-29-0	6.31	7.38	7.94	8.38	9.63	6.9	97.6
20-4-2021	3-44-0	6.19	7.31	7.88	8.38	9.63	6.8	97.3
20-4-2021	3-59-0	5.88	7.19	7.88	8.31	9.63	7	97.1
20-4-2021	4-14-0	5.63	7.13	7.81	8.31	9.63	6.4	95.8
20-4-2021	4-29-0	5.38	6.94	7.81	8.25	9.56	6.2	95.5
20-4-2021	4-44-0	5.25	6.81	7.75	8.25	9.56	5.7	95.9
20-4-2021	4-59-0	5.06	6.69	7.69	8.25	9.56	5.3	94.9
20-4-2021	5-14-0	4.88	6.56	7.56	8.19	9.56	4.9	95.8
20-4-2021	5-29-0	4.81	6.44	7.5	8.19	9.56	4.2	95.8
20-4-2021	5-44-0	4.88	6.38	7.44	8.13	9.5	3.8	97.1
20-4-2021	5-59-0	4.94	6.38	7.38	8.13	9.5	3.8	98
20-4-2021	6-14-0	5.06	6.38	7.31	8.06	9.5	4.1	98.6
20-4-2021	6-29-0	5.25	6.44	7.25	8.06	9.44	4.3	98.9
20-4-2021	6-44-0	5.38	6.5	7.25	8	9.44	4.5	99.6
20-4-2021	6-59-0	5.5	6.56	7.25	8	9.44	4.7	99.9
20-4-2021	7-14-0	5.63	6.56	7.25	7.94	9.44	5.1	99.9
20-4-2021	7-29-0	5.88	6.69	7.25	7.94	9.38	5.2	99.7
20-4-2021	7-44-0	6.13	6.81	7.25	7.88	9.38	5.5	99.6
20-4-2021	7-59-0	6.25	6.94	7.25	7.88	9.38	5.8	99.7
20-4-2021	8-14-0	6.5	7.06	7.31	7.81	9.38	6.1	99.7
20-4-2021	8-29-0	6.75	7.19	7.31	7.81	9.38	6.3	99.1
20-4-2021	8-44-0	6.88	7.31	7.38	7.81	9.31	6.5	98.4
20-4-2021	8-59-0	7.19	7.44	7.44	7.75	9.31	6.4	98.8
20-4-2021	9-14-0	7.38	7.63	7.5	7.75	9.31	6.9	98.9
20-4-2021	9-29-0	7.69	7.75	7.56	7.75	9.25	6.8	99
20-4-2021	9-44-0	8.06	7.94	7.63	7.75	9.25	7.3	98.4
20-4-2021	9-59-0	8.31	8.13	7.69	7.75	9.19	7.5	98.4
20-4-2021	10-14-0	8.88	8.44	7.81	7.75	9.25	7.7	97.9
20-4-2021	10-29-0	9.19	8.69	7.94	7.75	9.19	8.3	96.4
20-4-2021	10-44-0	9.38	8.88	8.06	7.75	9.19	8.7	94.2
20-4-2021	10-59-0	10	9.19	8.19	7.75	9.25	9	94.2
20-4-2021	11-14-0	11.81	9.75	8.31	7.81	9.19	9.3	94
20-4-2021	11-29-0	13.13	10.56	8.5	7.81	9.19	10.3	91.2
20-4-2021	11-44-0	14.94	12.13	8.81	7.81	9.13	11.3	91.4
20-4-2021	11-59-11	16.94	13.31	9.25	7.88	9.13	21.2	50.4
20-4-2021	11-59-19	16.81	13.31	9.31	7.88	9.13	20.8	50.9

20-4-2021	12-14-0	17.44	14.25	9.81	7.94	9.19	20.7	52.9
20-4-2021	12-29-0	17.25	15.38	10.31	8	9.19	18.6	57.6
20-4-2021	12-44-0	19.56	16.5	10.88	8.06	9.19	17.5	61.4
20-4-2021	12-59-0	20.19	17.12	11.5	8.19	9.13	17.8	56
20-4-2021	13-14-0	21.75	18.06	12.13	8.31	9.19	18.3	53.9
20-4-2021	13-29-0	22	19	12.69	8.5	9.19	17.9	58.3
20-4-2021	13-44-0	21.5	20.06	13.25	8.63	9.25	18.4	52.3
20-4-2021	13-59-0	19.62	19.87	13.81	8.81	9.19	18.7	47.1
20-4-2021	14-14-0	18	18.69	14.13	9	9.31	17.4	45.7
20-4-2021	14-29-0	16.94	17.69	14.19	9.25	9.31	16.3	43.2
20-4-2021	14-44-0	15.13	16.81	14.13	9.44	9.44	15.5	47.1
20-4-2021	14-59-0	14.88	16.06	14	9.63	9.38	14.5	62
20-4-2021	15-14-0	14.56	15.5	13.81	9.75	9.44	14.1	53.3
20-4-2021	15-29-0	14.56	15.13	13.63	9.94	9.56	13.5	60.7
20-4-2021	15-44-0	14.25	14.81	13.44	10.06	9.63	13.1	64.2
20-4-2021	15-59-0	14.25	14.5	13.25	10.13	9.63	12.9	64.7
20-4-2021	16-14-0	14.31	14.38	13.13	10.19	9.69	13.1	63.9
20-4-2021	16-29-0	14.63	14.31	13.06	10.25	9.75	13.6	62.3
20-4-2021	16-44-0	14.63	14.38	13	10.31	9.81	14.2	54.9
20-4-2021	16-59-0	14.5	14.31	12.94	10.38	9.88	14.6	49.2
20-4-2021	17-14-0	15.44	14.5	12.88	10.44	10	14.6	49.8
20-4-2021	17-29-0	18.44	15.63	12.94	10.5	10	15.2	49.6
20-4-2021	17-44-0	17.31	15.88	13.06	10.5	10.06	16.2	45.6
20-4-2021	17-59-0	16.81	15.75	13.19	10.56	10.13	16.4	44.1
20-4-2021	18-14-0	15.38	15.38	13.31	10.63	10.25	16.5	42.9
20-4-2021	18-29-0	14.81	14.94	13.31	10.63	10.25	15.7	42.8
20-4-2021	18-44-0	14.44	14.63	13.31	10.69	10.31	14.8	46.7
20-4-2021	18-59-0	14.19	14.38	13.19	10.75	10.38	14.6	49.6
20-4-2021	19-14-0	13.63	14.06	13.13	10.81	10.44	14.3	49.9
20-4-2021	19-29-0	13	13.75	13.06	10.81	10.44	14	52
20-4-2021	19-44-0	12.31	13.38	12.94	10.88	10.5	13.3	55
20-4-2021	19-59-0	11.75	13	12.81	10.94	10.5	12.1	65
20-4-2021	20-14-0	11.5	12.69	12.69	10.94	10.63	11.1	65.1
20-4-2021	20-29-0	11.19	12.44	12.5	11	10.63	10.2	67.3
20-4-2021	20-44-0	10.94	12.19	12.38	11	10.69	9.7	68.7
20-4-2021	20-59-0	10.75	12	12.25	11	10.75	9.3	77.5
20-4-2021	21-14-0	10.44	11.81	12.13	11	10.75	8.9	78
20-4-2021	21-29-0	10.44	11.63	12	11	10.81	8.7	82.7
20-4-2021	21-44-0	10.19	11.5	11.88	11	10.81	8.8	83.3
20-4-2021	21-59-0	9.69	11.25	11.75	10.94	10.88	8.8	80
20-4-2021	22-14-0	9.44	11	11.63	10.94	10.88	8	83.8
20-4-2021	22-29-0	9.19	10.81	11.5	10.94	10.88	7.5	87.1
20-4-2021	22-44-0	8.94	10.63	11.38	10.88	10.94	7.4	85.5
20-4-2021	22-59-0	8.88	10.44	11.25	10.88	10.88	6.8	89.8
20-4-2021	23-14-0	8.88	10.38	11.13	10.81	10.94	6.8	91.1
20-4-2021	23-29-0	9	10.31	11	10.81	11	6.7	92.1
20-4-2021	23-44-0	8.94	10.25	10.94	10.75	11	7.1	92.4
20-4-2021	23-59-0	8.88	10.19	10.88	10.75	11	7.2	92
21-4-2021	0-14-0	8.81	10.06	10.75	10.69	11.06	7.4	91.6
21-4-2021	0-29-0	8.88	10.06	10.69	10.69	11.06	7.1	91.9

21-4-2021	0-44-0	8.69	10	10.63	10.63	11	7.7	91.1
21-4-2021	0-59-0	8.38	9.88	10.56	10.56	11.06	7.7	90.8
21-4-2021	1-14-0	8.13	9.75	10.5	10.56	11.06	7.4	90.4
21-4-2021	1-29-0	8	9.63	10.44	10.5	11.06	6.9	90.2
21-4-2021	1-44-0	7.88	9.44	10.31	10.5	11.06	7.2	89.8
21-4-2021	1-59-0	7.69	9.31	10.25	10.44	11.06	6.8	91
21-4-2021	2-14-0	7.44	9.19	10.19	10.44	11.06	6.2	88.7
21-4-2021	2-29-0	7.5	9.13	10.06	10.38	11	5.3	91.8
21-4-2021	2-44-0	7.56	9.06	10	10.31	11.06	5.2	94.3
21-4-2021	2-59-0	7.31	8.94	9.88	10.31	11.06	5.7	93.9
21-4-2021	3-14-0	7	8.81	9.81	10.25	11	5.1	93.3
21-4-2021	3-29-0	6.69	8.63	9.75	10.19	11	4.8	93.8
21-4-2021	3-44-0	6.56	8.5	9.63	10.19	11.06	4.2	94
21-4-2021	3-59-0	6.63	8.38	9.56	10.13	11	4	94.2
21-4-2021	4-14-0	6.56	8.31	9.44	10.06	11	4.8	93.8
21-4-2021	4-29-0	6.13	8.19	9.38	10	11	4.9	92.3
21-4-2021	4-44-0	6.19	8	9.25	10	10.94	4	93
21-4-2021	4-59-0	6	7.94	9.19	9.94	10.94	3.8	94.4
21-4-2021	5-14-0	5.94	7.81	9.13	9.88	10.94	3.9	92.6
21-4-2021	5-29-0	5.69	7.69	9	9.88	10.88	3.5	94.3
21-4-2021	5-44-0	5.56	7.56	8.94	9.81	10.88	3.1	94.5
21-4-2021	5-59-0	5.5	7.5	8.81	9.75	10.88	2.9	94.8
21-4-2021	6-14-0	5.5	7.38	8.75	9.69	10.81	2.7	95.6
21-4-2021	6-29-0	5.5	7.31	8.69	9.63	10.81	2.7	95.6
21-4-2021	6-44-0	5.5	7.31	8.63	9.56	10.81	2.9	96.1
21-4-2021	6-59-0	5.63	7.31	8.5	9.56	10.81	3.1	96.8
21-4-2021	7-14-0	5.88	7.31	8.44	9.5	10.75	3.3	97.3
21-4-2021	7-21-3	6	7.38	8.44	9.44	10.75	4.8	94.1
21-4-2021	7-21-24	6	7.38	8.44	9.44	10.75	4.9	94.7
21-4-2021	7-37-0	6.38	7.5	8.38	9.38	10.69	5.2	95.5
21-4-2021	7-52-0	6.63	7.63	8.38	9.31	10.69	6.3	91.2
21-4-2021	8-7-0	6.94	7.81	8.44	9.31	10.63	6.5	93.6
21-4-2021	8-22-0	7.25	7.94	8.44	9.25	10.63	6.8	93.7
21-4-2021	8-37-0	7.5	8.13	8.44	9.19	10.69	7.2	93.2
21-4-2021	8-52-0	7.56	8.19	8.5	9.19	10.56	7.8	90.4
21-4-2021	9-7-0	7.63	8.31	8.56	9.13	10.63	8.1	91.1
21-4-2021	9-22-0	8.19	8.5	8.56	9.13	10.56	8.6	86.4
21-4-2021	9-37-0	8.25	8.69	8.63	9.06	10.56	9.5	80.8
21-4-2021	9-52-0	8.81	8.88	8.69	9.06	10.44	10.3	77.5
21-4-2021	10-7-0	8.63	9	8.75	9.06	10.44	12.5	73.6
21-4-2021	10-22-0	8.88	9.19	8.88	9.06	10.5	13.7	65.3
21-4-2021	10-37-0	9	9.31	8.94	9.06	10.44	13.9	63.1
21-4-2021	10-52-0	9.5	9.56	9	9.06	10.44	15.1	61
21-4-2021	11-7-0	12.5	10.31	9.13	9	10.44	16.4	57.1
21-4-2021	11-22-0	15.75	12.44	9.44	9.06	10.38	18.6	51.9
21-4-2021	11-37-0	18.06	14.44	10	9.06	10.38	20.3	46
21-4-2021	11-52-0	20	16.19	10.69	9.06	10.38	21.2	42.7
21-4-2021	12-7-0	21.75	17.81	11.44	9.13	10.38	22.1	39.2
21-4-2021	12-22-0	23.06	19.12	12.25	9.25	10.31	23	39.6
21-4-2021	12-37-0	24.37	20.37	13.06	9.38	10.38	22.7	38.3

21-4-2021	12-52-0	23.06	21.31	13.88	9.5	10.38	24	37.5
21-4-2021	13-7-0	23.06	20.75	14.5	9.69	10.31	24.1	37.2
21-4-2021	13-22-0	24.75	21.5	14.94	9.88	10.31	21.9	38.1
21-4-2021	13-37-0	22.81	21	15.38	10.13	10.31	23.7	34.4
21-4-2021	13-52-0	26	22.12	15.69	10.31	10.38	20.9	39.6
21-4-2021	14-7-0	27.5	23.37	16.12	10.56	10.5	24.8	29.5
21-4-2021	14-22-0	28.12	24.56	16.69	10.75	10.5	25.1	34.6
21-4-2021	14-37-0	26.25	24.62	17.31	10.94	10.56	24.9	34
21-4-2021	14-52-0	25.94	24.25	17.75	11.19	10.63	22.9	37.7
21-4-2021	15-7-0	24.5	23.69	18	11.44	10.75	22.7	38.2
21-4-2021	15-17-21	23.5	23.06	18.12	11.56	10.75	19.7	42.7
21-4-2021	15-17-44	23.44	23	18.12	11.63	10.69	19.6	44.1
21-4-2021	15-32-0	22.87	22.5	18.12	11.81	10.81	19.6	42.2
21-4-2021	15-47-0	22.81	21.94	18.06	12	10.94	19.2	44.6
21-4-2021	16-2-0	21.31	21.37	18	12.25	11.06	18.4	45.7
21-4-2021	16-17-0	20.87	20.69	17.87	12.38	11.13	17.6	46.5
21-4-2021	16-32-0	22.31	20.87	17.75	12.56	11.19	17.2	48.1
21-4-2021	16-47-0	22.31	21.06	17.69	12.69	11.25	18.1	42.5
21-4-2021	17-2-0	21.62	21.37	17.81	12.81	11.38	18.7	41.4
21-4-2021	17-17-0	21.94	21.37	17.87	12.94	11.44	19.1	37.7
21-4-2021	17-32-0	20.5	20.69	17.87	13.06	11.5	19.6	34.5
21-4-2021	17-47-0	19.44	19.94	17.75	13.13	11.63	18.7	38.3
21-4-2021	18-2-0	18.87	19.31	17.62	13.25	11.69	17.8	44.2
21-4-2021	18-17-0	18.56	18.94	17.37	13.31	11.81	17.4	45.1
21-4-2021	18-32-0	17.81	18.5	17.25	13.38	11.94	17.6	45.7
21-4-2021	18-47-0	17.25	18.06	17.06	13.5	12	16.9	48.8
21-4-2021	19-2-0	16.69	17.62	16.81	13.5	12.13	16.4	49.8
21-4-2021	19-17-0	16.44	17.25	16.62	13.56	12.13	15.7	52.2
21-4-2021	19-32-0	15.94	16.94	16.44	13.63	12.25	15.4	54.1
21-4-2021	19-47-0	15.44	16.56	16.25	13.63	12.38	15.1	54.2
21-4-2021	20-2-0	15	16.19	16.06	13.63	12.44	14.6	58.4
21-4-2021	20-17-0	14.63	15.88	15.88	13.63	12.5	14.1	58.8
21-4-2021	20-32-0	14.56	15.56	15.63	13.63	12.56	13.7	60.4
21-4-2021	20-47-0	13.63	15.25	15.5	13.63	12.56	13.4	61.2
21-4-2021	21-2-0	13.06	14.88	15.31	13.63	12.69	13	72.4
21-4-2021	21-17-0	12.81	14.56	15.13	13.63	12.69	12.7	69.9
21-4-2021	21-32-0	12.63	14.31	14.88	13.56	12.81	12.1	73
21-4-2021	21-47-0	12.5	14.06	14.69	13.56	12.81	11.8	73.3
21-4-2021	22-2-0	12.31	13.88	14.5	13.5	12.81	11.6	72.5
21-4-2021	22-17-0	12.13	13.63	14.38	13.5	12.88	11.4	73.6
21-4-2021	22-32-0	11.94	13.44	14.19	13.44	12.88	11.1	73.4
21-4-2021	22-47-0	11.69	13.25	14.06	13.38	12.94	10.7	75.2
21-4-2021	23-2-0	11.5	13.06	13.88	13.31	12.94	10.5	75.7
21-4-2021	23-17-0	11.31	12.94	13.75	13.31	12.94	10.1	77.7
21-4-2021	23-32-0	11.13	12.75	13.63	13.25	13	10.1	75.9
21-4-2021	23-47-0	10.94	12.56	13.44	13.19	13	9.7	77
22-4-2021	0-2-0	10.81	12.44	13.31	13.13	13	9.7	77.8
22-4-2021	0-17-0	10.63	12.25	13.19	13.06	13	9.6	76.7
22-4-2021	0-32-0	10.44	12.13	13.06	13	13.06	9.3	76.3
22-4-2021	0-47-0	10.25	11.94	12.94	12.94	13	9.1	75.6

22-4-2021	1-2-0	10.06	11.75	12.81	12.94	13	8.8	78.2
22-4-2021	1-17-0	9.94	11.63	12.69	12.88	13.06	7.8	79.6
22-4-2021	1-32-0	9.69	11.5	12.56	12.81	13	8	80.8
22-4-2021	1-47-0	9.63	11.31	12.5	12.75	13	7.9	81.1
22-4-2021	2-2-0	9.31	11.19	12.38	12.69	13.06	7.6	82.9
22-4-2021	2-17-0	9.19	11	12.25	12.63	13	6.8	86
22-4-2021	2-32-0	9.06	10.88	12.06	12.56	13	6.2	87
22-4-2021	2-47-0	8.94	10.69	12	12.5	13	6.2	88.7
22-4-2021	3-2-0	8.94	10.63	11.88	12.44	13	5.9	88.9
22-4-2021	3-17-0	9.13	10.56	11.75	12.38	12.94	6.5	88.1
22-4-2021	3-32-0	8.94	10.5	11.69	12.31	13	6.7	88.4
22-4-2021	3-47-0	8.81	10.44	11.56	12.25	12.88	7.2	85.4
22-4-2021	4-2-0	8.75	10.31	11.5	12.19	12.88	7.3	83.1
22-4-2021	4-17-0	8.63	10.25	11.38	12.13	12.81	7.4	82.9
22-4-2021	4-32-0	8.44	10.13	11.31	12.06	12.88	7.3	82.8
22-4-2021	4-47-0	8.44	10.06	11.19	12	12.81	7.3	83.8
22-4-2021	5-2-0	8.56	10	11.13	11.94	12.81	7.1	84
22-4-2021	5-17-0	8.56	10	11.06	11.88	12.81	7.1	84.2
22-4-2021	5-32-0	8.56	10	11	11.81	12.75	7.2	82.5
22-4-2021	5-47-0	8.56	9.94	10.94	11.75	12.75	7.3	82.9
22-4-2021	6-2-0	8.63	9.94	10.88	11.69	12.75	7.3	79.8
22-4-2021	6-17-0	8.69	9.94	10.81	11.63	12.69	7.3	76.3
22-4-2021	6-32-0	8.63	9.94	10.81	11.56	12.69	7.4	73.4
22-4-2021	6-47-0	8.63	9.88	10.75	11.5	12.63	7.1	69.1
22-4-2021	7-2-0	8.63	9.88	10.69	11.44	12.63	7.2	67.7
22-4-2021	7-17-0	8.56	9.81	10.69	11.44	12.56	6.9	66.5
22-4-2021	7-32-0	8.38	9.75	10.63	11.38	12.56	6.8	65.3
22-4-2021	7-47-0	8.31	9.75	10.56	11.31	12.5	6.7	69.7
22-4-2021	8-2-0	8.25	9.63	10.56	11.25	12.5	6.3	62.4
22-4-2021	8-17-0	8.19	9.63	10.5	11.25	12.44	6	62.7
22-4-2021	8-32-0	8	9.56	10.44	11.19	12.44	5.9	62.8
22-4-2021	8-47-0	7.75	9.44	10.38	11.13	12.38	5.9	61.2
22-4-2021	9-2-0	7.94	9.38	10.31	11.06	12.44	5.9	56.8
22-4-2021	9-17-0	8.13	9.38	10.25	11.06	12.38	6.3	60.5
22-4-2021	9-32-0	9.69	10	10.19	11	12.31	6.8	54.6
22-4-2021	9-47-0	11.38	10.88	10.25	11	12.31	7.7	51
22-4-2021	10-2-0	12.69	11.75	10.5	10.94	12.25	8.3	49.9
22-4-2021	10-17-0	13.31	12.63	10.75	10.88	12.25	9	47.8
22-4-2021	10-32-0	15.31	13.75	11.19	10.88	12.19	9.9	42.8
22-4-2021	10-47-0	15.31	15.06	11.56	10.88	12.25	10.5	42.7
22-4-2021	11-2-0	17.44	16	12.06	10.88	12.13	11	42.2
22-4-2021	11-17-0	18.75	16.56	12.5	10.88	12.13	11.1	41.7
22-4-2021	11-32-0	19.56	17.37	12.94	10.94	12.13	11.7	44.2
22-4-2021	11-47-0	19.06	18.25	13.44	11	12.06	12.3	40.3
22-4-2021	12-2-0	20.56	19.06	13.88	11.13	12.13	13.2	39.4
22-4-2021	12-17-0	21.69	19.5	14.31	11.19	12.06	14.1	36.7
22-4-2021	12-32-0	22.5	19.94	14.81	11.31	12.06	14	35.3
22-4-2021	12-47-0	23.06	20.62	15.25	11.44	12.06	14.8	33.9
22-4-2021	13-2-0	22.31	21.31	15.69	11.56	12.06	14.7	33.7
22-4-2021	13-17-0	23.69	22	16.12	11.69	12.06	15.1	33.6

22-4-2021	13-32-0	24.87	22.62	16.5	11.88	12.06	15.4	33.3
22-4-2021	13-47-0	25.37	23.12	16.87	12	12.13	16	31.7
22-4-2021	14-2-0	26.12	23.62	17.19	12.19	12.19	15.8	31.8
22-4-2021	14-17-0	26.37	23.75	17.5	12.31	12.19	15.8	32.6
22-4-2021	14-32-0	26.12	23.44	17.81	12.5	12.19	16.4	36.4
22-4-2021	14-47-0	23.81	22.81	18	12.69	12.25	16	32.6
22-4-2021	15-2-0	21.94	21.81	18.12	12.81	12.31	15.4	32.9
22-4-2021	15-17-0	20.94	21.06	18.06	13	12.31	15.1	31.1
22-4-2021	15-32-0	21	20.62	17.94	13.13	12.44	14.3	34.8
22-4-2021	15-47-0	19.94	20.31	17.81	13.31	12.5	14.3	33.8
22-4-2021	16-2-0	19.37	19.81	17.69	13.44	12.56	14.3	33.6
22-4-2021	16-17-0	19.25	19.5	17.56	13.5	12.63	13.8	35.4
22-4-2021	16-32-0	19.37	19.37	17.44	13.63	12.69	13.6	34
22-4-2021	16-47-0	18.75	19.06	17.37	13.69	12.75	13.7	34.7
22-4-2021	17-2-0	18.37	19	17.25	13.75	12.88	12.4	38
22-4-2021	17-17-0	18.19	18.81	17.19	13.88	12.88	12.5	36.7
22-4-2021	17-32-0	17	18.12	17.12	13.88	13	11.9	38.4
22-4-2021	17-47-0	16.56	17.62	16.94	13.94	13.06	11.2	38.4
22-4-2021	18-2-0	15.75	17.12	16.75	14	13.06	11.6	40
22-4-2021	18-17-0	15.31	16.62	16.56	14	13.13	10.8	42.1
22-4-2021	18-32-0	14.81	16.25	16.31	14	13.19	10.3	42
22-4-2021	18-47-0	14.19	15.81	16.12	14.06	13.25	10.1	41.7
22-4-2021	19-2-0	13.75	15.44	15.88	14.06	13.31	9.2	43.3
22-4-2021	19-17-0	13.5	15.06	15.69	14.06	13.38	9	45.6
22-4-2021	19-32-0	13.06	14.75	15.44	14.06	13.38	8.9	45.9
22-4-2021	19-47-0	12.81	14.44	15.25	14	13.44	8.9	42.7
22-4-2021	20-2-0	12.44	14.19	15.06	14	13.5	8.7	44.7
22-4-2021	20-17-0	12.13	13.94	14.88	14	13.56	8.8	43.1
22-4-2021	20-32-0	11.81	13.63	14.69	13.94	13.56	8.7	45.3
22-4-2021	20-47-0	11.5	13.38	14.44	13.94	13.56	8.4	46.4
22-4-2021	21-2-0	11.31	13.13	14.25	13.88	13.63	7.9	48.6
22-4-2021	21-17-0	11.25	12.94	14.13	13.81	13.69	7.8	50.3
22-4-2021	21-32-0	11.06	12.75	13.94	13.75	13.63	7.6	50.8
22-4-2021	21-47-0	11.06	12.63	13.75	13.69	13.69	7.8	49.4
22-4-2021	22-2-0	10.94	12.56	13.63	13.63	13.69	7.9	50.8
22-4-2021	22-17-0	10.88	12.44	13.5	13.56	13.69	7.9	48.9
22-4-2021	22-32-0	10.81	12.31	13.38	13.56	13.69	7.9	52.8
22-4-2021	22-47-0	10.69	12.25	13.25	13.5	13.75	7.9	53.1
22-4-2021	23-2-0	10.38	12.06	13.13	13.44	13.75	7.8	51.9
22-4-2021	23-17-0	10.13	11.88	13.06	13.38	13.69	7.8	52.9
22-4-2021	23-32-0	9.88	11.69	12.94	13.31	13.69	7.5	55.4
22-4-2021	23-47-0	9.88	11.56	12.81	13.25	13.69	7.4	55.8
23-4-2021	0-2-0	9.81	11.44	12.69	13.19	13.69	7.2	57
23-4-2021	0-17-0	9.75	11.38	12.56	13.13	13.63	7.2	57.5
23-4-2021	0-32-0	9.69	11.31	12.5	13.06	13.69	7.3	56.8
23-4-2021	0-47-0	9.69	11.25	12.38	13	13.63	7.3	58
23-4-2021	1-2-0	9.56	11.13	12.31	12.94	13.63	7.3	58.9
23-4-2021	1-17-0	9.5	11.06	12.19	12.88	13.63	7.1	59.3
23-4-2021	1-32-0	9.44	11	12.13	12.81	13.63	7	60.7
23-4-2021	1-47-0	9.44	10.94	12.06	12.75	13.56	6.9	61.3

23-4-2021	2-2-0	9.06	10.81	11.94	12.69	13.56	6.8	64.3
23-4-2021	2-17-0	8.88	10.69	11.88	12.63	13.56	6.3	69.1
23-4-2021	2-32-0	9	10.63	11.81	12.56	13.56	6	80.6
23-4-2021	2-47-0	8.56	10.5	11.75	12.5	13.5	6	78.4
23-4-2021	3-2-0	8.31	10.31	11.63	12.44	13.44	5.7	77.1
23-4-2021	3-17-0	8.13	10.13	11.56	12.44	13.38	5.2	77.4
23-4-2021	3-32-0	7.88	9.94	11.44	12.38	13.38	5.2	76.3
23-4-2021	3-47-0	7.63	9.75	11.31	12.31	13.38	5	75.7
23-4-2021	4-2-0	7.5	9.56	11.19	12.25	13.31	4	79.7
23-4-2021	4-17-0	7.38	9.44	11.06	12.19	13.31	3.6	86
23-4-2021	4-32-0	7.19	9.31	10.94	12.13	13.31	3.5	84.3
23-4-2021	4-47-0	7.06	9.19	10.88	12.06	13.31	3.7	82.9
23-4-2021	5-2-0	6.88	9.06	10.75	12	13.31	3.7	80.6
23-4-2021	5-17-0	6.81	8.94	10.63	11.94	13.25	3.6	79.8
23-4-2021	5-32-0	6.75	8.81	10.5	11.88	13.19	3.6	78.5
23-4-2021	5-47-0	6.56	8.69	10.38	11.81	13.13	3.7	80.3
23-4-2021	6-2-0	6.5	8.63	10.31	11.75	13.13	3.6	79.5
23-4-2021	6-17-0	6.44	8.5	10.19	11.69	13.06	3.7	76.9
23-4-2021	6-32-0	6.44	8.44	10.06	11.63	13.06	3.7	75.9
23-4-2021	6-47-0	6.44	8.38	10	11.5	13.06	3.8	75.6
23-4-2021	7-2-0	6.38	8.31	9.94	11.44	13	4	73.7
23-4-2021	7-17-0	6.38	8.25	9.81	11.38	13	4.2	74.1
23-4-2021	7-32-0	6.38	8.25	9.75	11.31	12.94	4.4	73.8
23-4-2021	7-47-0	6.5	8.25	9.69	11.25	12.88	4.7	72.1
23-4-2021	8-2-0	6.69	8.25	9.63	11.19	12.81	4.9	72
23-4-2021	8-17-0	6.69	8.31	9.56	11.13	12.81	5.3	70.6
23-4-2021	8-32-0	6.81	8.38	9.56	11.06	12.75	5.7	69.2
23-4-2021	8-47-0	7.19	8.44	9.5	11	12.75	6.2	67
23-4-2021	9-2-0	7.94	8.69	9.5	10.94	12.69	6.7	64.9
23-4-2021	9-17-0	8.44	9.06	9.56	10.88	12.63	7.3	60.9
23-4-2021	9-32-0	8.38	9.19	9.63	10.81	12.63	7.8	59.6
23-4-2021	9-47-0	8.5	9.31	9.69	10.81	12.56	7.4	60.9
23-4-2021	9-57-55	8.63	9.38	9.75	10.75	12.56	7.8	57.4
23-4-2021	9-58-6	8.69	9.38	9.75	10.75	12.56	7.8	58.3
23-4-2021	10-13-0	8.56	9.44	9.75	10.69	12.56	7.9	57.8
23-4-2021	10-28-0	8.56	9.5	9.81	10.69	12.56	7.8	57.7
23-4-2021	10-43-0	8.94	9.56	9.88	10.63	12.38	7.5	55.7
23-4-2021	10-58-0	9.38	9.81	9.88	10.63	12.44	7.8	56.7
23-4-2021	11-13-0	9.75	10.06	9.94	10.63	12.38	8.4	53.1
23-4-2021	11-28-0	10.13	10.31	10.06	10.56	12.38	8.6	53.1
23-4-2021	11-43-0	10.44	10.56	10.13	10.56	12.31	9	53.8
23-4-2021	11-58-0	10.56	10.81	10.25	10.56	12.25	9	51.9
23-4-2021	12-13-0	10.75	10.94	10.38	10.56	12.25	9.2	49.8
23-4-2021	12-28-0	10.94	11.13	10.44	10.56	12.19	9.4	51.1
23-4-2021	12-43-0	11.19	11.19	10.56	10.56	12.19	9.5	50.8
23-4-2021	12-58-0	11.13	11.38	10.69	10.56	12.25	9.5	49.6
29-4-2021	15-33-41	18.44	17.44	15.69	14.13	14.81	23.9	40.9
29-4-2021	15-48-0	19.31	18.19	15.88	14.19	14.81	23.9	40.7
29-4-2021	16-3-0	18.5	18.19	16.12	14.25	14.81	23.8	39.1
29-4-2021	16-18-0	17.06	17.94	16.31	14.31	14.81	22.7	37.6

29-4-2021	16-33-0	17.62	17.81	16.37	14.44	14.88	21.9	43
29-4-2021	16-48-0	18.25	18	16.44	14.5	14.88	21.3	42.4
29-4-2021	17-3-0	18.44	18.12	16.5	14.56	14.94	21.3	43
29-4-2021	17-18-0	18.62	18.25	16.62	14.69	14.88	21.2	42.7
29-4-2021	17-33-0	18.44	18.25	16.69	14.75	14.94	21.2	42
29-4-2021	17-48-0	18.25	18.19	16.81	14.81	15	21.1	41.2
29-4-2021	18-3-0	18.19	18.12	16.81	14.88	15.06	20.9	40.9
29-4-2021	18-18-0	18.06	18.06	16.87	14.94	15.13	20.8	41.3
29-4-2021	18-33-0	17.94	18	16.87	15.06	15.13	20.7	40.9
29-4-2021	18-48-0	17.69	17.87	16.94	15.13	15.19	20.5	40.4
29-4-2021	19-3-0	17.5	17.81	16.94	15.19	15.25	20.2	39.1
29-4-2021	19-18-0	17.31	17.69	16.94	15.25	15.25	20	39.8
29-4-2021	19-33-0	17.19	17.56	16.94	15.25	15.31	19.8	39.7
29-4-2021	19-48-0	17	17.5	16.87	15.31	15.31	19.6	39.5
29-4-2021	20-3-0	16.81	17.37	16.87	15.38	15.38	19.4	39.5
29-4-2021	20-18-0	16.75	17.25	16.81	15.44	15.44	19.2	39.6
29-4-2021	20-33-0	16.62	17.19	16.81	15.44	15.5	19	39.6
29-4-2021	20-48-0	16.5	17.12	16.75	15.5	15.5	18.8	39.9
29-4-2021	21-3-0	16.37	17.06	16.75	15.5	15.56	18.6	39.6
29-4-2021	21-18-0	16	16.87	16.69	15.56	15.56	18.4	39.5
29-4-2021	21-33-0	15.75	16.75	16.62	15.56	15.63	18	39.7
29-4-2021	21-48-0	15.63	16.56	16.62	15.56	15.63	17.5	41.5
29-4-2021	22-3-0	15.38	16.44	16.5	15.63	15.69	17.1	41.6
29-4-2021	22-18-0	15.19	16.31	16.44	15.63	15.75	16.8	43.2
29-4-2021	22-33-0	14.94	16.19	16.37	15.63	15.75	16.5	42.7
29-4-2021	22-48-0	14.88	16.06	16.31	15.63	15.81	16.2	43.5
29-4-2021	23-3-0	14.81	16	16.25	15.63	15.81	15.9	43.4
29-4-2021	23-18-0	14.75	15.88	16.19	15.63	15.81	15.8	43.4
29-4-2021	23-33-0	14.31	15.75	16.12	15.63	15.81	15.6	43.6
29-4-2021	23-48-0	14.25	15.69	16.06	15.63	15.81	15.4	44.3
30-4-2021	0-3-0	14.31	15.56	16.06	15.63	15.88	15.2	44.3
30-4-2021	0-18-0	14.31	15.5	15.94	15.63	15.88	15	44.5
30-4-2021	0-33-0	14.19	15.38	15.88	15.56	15.94	14.8	44.7
30-4-2021	0-48-0	14.13	15.31	15.81	15.56	15.94	14.7	45.2
30-4-2021	1-3-0	14	15.25	15.75	15.5	15.88	14.7	46.2
30-4-2021	1-18-0	13.94	15.19	15.69	15.5	15.88	14.5	46.2
30-4-2021	1-33-0	13.88	15.13	15.63	15.5	15.94	14.4	46.8
30-4-2021	1-48-0	13.69	15	15.56	15.5	16	14.4	47.6
30-4-2021	2-3-0	13.69	14.94	15.56	15.44	15.94	14.2	47.1
30-4-2021	2-18-0	13.44	14.88	15.5	15.44	15.94	14.2	47.9
30-4-2021	2-33-0	13.19	14.69	15.38	15.38	15.94	14.1	48.1
30-4-2021	2-48-0	13	14.56	15.38	15.38	15.94	13.9	48
30-4-2021	3-3-0	12.88	14.44	15.25	15.38	16	13.7	48.1
30-4-2021	3-18-0	12.81	14.31	15.19	15.31	15.94	13.4	47.7
30-4-2021	3-33-0	12.94	14.25	15.13	15.31	15.94	13.2	47.6
30-4-2021	3-48-0	12.81	14.25	15.06	15.25	15.94	13.1	48.3
30-4-2021	4-3-0	12.75	14.13	15.06	15.25	15.94	13.1	48.8
30-4-2021	4-18-0	12.63	14.13	14.94	15.19	-127	13	49.1
30-4-2021	4-33-0	12.5	-127	-127	14	-127	12.9	49.5
30-4-2021	4-48-0	12.38	13.94	14.81	15.13	15.88	12.9	49.6

30-4-2021	5-3-0	12.38	13.94	-127	15.13	-127	12.8	50.2
30-4-2021	5-18-0	12.25	13.81	15.88	15.06	-127	12.5	49.4
30-4-2021	5-33-0	12	13.63	14.56	15	15.88	12.3	49.1
30-4-2021	5-48-0	12	13.56	14.5	15	15.88	12.1	49.4
30-4-2021	6-3-0	12	13.5	14.44	14.94	15.81	11.9	48.9
30-4-2021	6-18-0	12.06	13.44	14.38	14.88	15.81	11.8	49.8
30-4-2021	6-33-0	12.06	13.44	14.31	14.88	15.81	11.8	50.1
30-4-2021	6-48-0	12.06	13.44	14.31	14.81	15.75	11.9	51.1
30-4-2021	7-3-0	11.88	13.38	14.25	14.75	15.75	12	51.8
30-4-2021	7-18-0	11.75	13.38	14.19	14.75	15.69	11.9	51.7
30-4-2021	7-33-0	11.75	13.25	14.13	14.69	15.75	10.8	69.5
30-4-2021	7-48-0	11.75	13.19	14.13	14.69	15.69	10.5	72.5
30-4-2021	8-3-0	11.69	13.13	14.06	14.63	15.69	10.6	72.1
30-4-2021	8-18-0	12	13.25	14	14.56	15.69	10.9	71.9
30-4-2021	8-33-0	12.19	13.31	13.94	14.56	15.69	12.3	65.3
30-4-2021	8-48-0	12.31	13.44	13.94	14.5	15.63	12.1	64.7
30-4-2021	9-3-0	12.44	13.5	13.94	14.5	15.63	12.4	64
30-4-2021	9-18-0	14.31	14	13.94	14.44	15.56	12.7	62.3
30-4-2021	9-33-0	14.5	14.94	14.06	14.38	15.56	14	61.6
30-4-2021	9-48-0	16.75	15.75	14.31	14.38	15.56	14.7	57.2
30-4-2021	10-3-0	18.5	17.19	14.63	14.31	15.5	15.7	57
30-4-2021	10-18-0	20.31	18.56	15.06	14.31	15.44	16.5	53.8
30-4-2021	10-33-0	21.69	19.81	15.56	14.38	15.44	17.5	50.3
30-4-2021	10-48-0	22.94	20.94	16.12	14.38	15.5	18.6	53.1
30-4-2021	11-3-0	23.94	21.81	16.62	14.38	15.5	19	44.7
30-4-2021	11-18-0	25	22.87	17.19	14.44	15.44	19.1	45.4
30-4-2021	11-33-0	25.62	23.62	17.69	14.56	15.44	20	36.3
30-4-2021	11-48-0	26.19	23.87	18.12	14.63	15.44	20.4	38.8
30-4-2021	12-3-0	26.87	24.5	18.5	14.75	15.44	20.2	40.1
30-4-2021	12-18-0	28	25	18.87	14.88	15.44	20.9	35.4
30-4-2021	12-33-0	29.19	25.75	19.19	15	15.44	21.6	37.7
30-4-2021	12-48-0	29.19	26.19	19.56	15.13	15.44	22.1	37
30-4-2021	13-3-0	29.94	26.56	19.94	15.25	15.44	22.4	30.7
30-4-2021	13-18-0	30.62	26.81	20.25	15.38	15.5	22.8	29.8
30-4-2021	13-33-0	31.37	27.12	20.56	15.56	15.56	22.7	31
30-4-2021	13-48-0	31.75	27.31	20.94	15.69	15.56	23.3	32.6
30-4-2021	14-3-0	32.31	27.56	21.19	15.88	15.63	23.9	31
30-4-2021	14-18-0	31.37	27.56	21.56	16.06	15.69	24.6	29.7
30-4-2021	14-33-0	31.56	27.5	21.87	16.19	15.69	24.1	27.2
30-4-2021	14-48-0	31.37	27.44	22.19	16.37	15.75	25	28.2
30-4-2021	15-3-0	30.81	27.44	22.44	16.56	15.81	25.4	29.3
30-4-2021	15-18-0	29.75	27.31	22.69	16.75	15.88	25.2	28.3
30-4-2021	15-52-0	28.75	27.56	23.19	17.19	16.06	27.2	27.4
30-4-2021	16-7-0	27.87	27.44	23.37	17.37	16.12	23.9	29.8
30-4-2021	16-22-0	27.31	27.37	23.5	17.56	16.19	23	29.9
30-4-2021	16-37-0	26.94	27.19	16.31	17.75	-127	22.9	30.5
30-4-2021	16-52-0	26.37	26.94	23.62	17.87	16.37	22.2	34.8
30-4-2021	17-7-0	26.06	26.37	-127	18	-127	21.8	30.8
30-4-2021	17-22-0	25.81	26.37	23.56	18	16.56	20.8	32.6
30-4-2021	17-37-0	24.81	25.25	23.44	18.31	16.69	20.5	32.4

30-4-2021	17-52-0	24.12	24.75	23.31	18.44	16.75	20.7	34.7
30-4-2021	18-7-0	23.5	24.25	23.12	18.56	16.87	20.5	37.1
30-4-2021	18-22-0	22.94	23.81	23	18.69	17	20.5	35.3
30-4-2021	18-37-0	22.5	23.37	22.81	18.81	17.06	20	36.6
30-4-2021	18-52-0	21.94	22.94	22.62	18.87	17.19	19.3	37.7
30-4-2021	19-7-0	21.31	22.5	22.44	18.94	17.25	18.6	40.2
30-4-2021	19-22-0	20.94	22.12	22.19	19	17.37	18	40.5
30-4-2021	19-37-0	20.37	21.69	22	19.06	17.44	17.4	41.6
30-4-2021	19-52-0	20.06	21.25	22	19.12	17.56	16.5	42.2
30-4-2021	20-7-0	20.06	22	17.62	21.25	-127	15.9	41.9
30-4-2021	20-22-0	19.69	20.81	21.5	19.19	17.81	15.2	42.6
30-4-2021	21-7-0	18.12	20.62	-127	19.69	-127	15.3	40.9
30-4-2021	21-22-0	17.5	20.44	17.94	19.31	-127	14.1	48.2
30-4-2021	21-37-0	17	18.94	18	19.12	-127	13.7	50.2
30-4-2021	21-52-0	16.5	18.56	20.06	19.12	18	12.9	53.6
30-4-2021	22-7-0	16.12	18.19	19.81	19.06	18.12	12.4	55.3
30-4-2021	22-22-0	15.69	17.81	19.62	19	18.12	11.8	57.9
30-4-2021	22-37-0	15.56	17.56	19.37	18.94	18.12	11.3	58.1
30-4-2021	22-52-0	15.5	17.37	19.19	18.94	18.19	11.3	59.1
30-4-2021	23-7-0	15.44	17.25	18.94	18.81	18.25	11.3	59.7
30-4-2021	23-22-0	15.19	17.06	18.81	18.81	18.25	11.5	59.1
30-4-2021	23-37-0	15.06	16.94	18.62	18.75	18.31	11.4	59.5
30-4-2021	23-52-0	15	16.81	18.5	18.62	18.31	11.5	58.4
1-5-2021	0-7-0	14.88	16.69	18.31	18.56	18.25	11.3	59.8
1-5-2021	0-22-0	14.88	16.56	18.25	18.5	-127	11.1	62.7
1-5-2021	0-37-0	14.94	16.5	18.06	18.37	18.25	11.1	63.5
1-5-2021	0-52-0	14.75	16.37	18.31	18.31	-127	11.3	63.3
1-5-2021	1-7-0	14.63	16.25	17.81	18.25	18.31	11.1	63.8
1-5-2021	1-22-0	14.63	16.12	17.69	18.19	18.25	10.9	64.9
1-5-2021	1-37-0	14.31	16.06	17.56	18.12	18.25	11	65.8
1-5-2021	1-52-0	14.25	15.94	17.44	18	18.25	10.8	67.5
1-5-2021	2-7-0	14.06	15.75	17.37	17.94	18.25	10.6	72.9
1-5-2021	2-22-0	13.94	15.63	17.25	17.87	18.19	10.3	74.9
1-5-2021	2-37-0	13.75	15.5	17.12	17.81	18.19	10.4	73.5
1-5-2021	2-52-0	13.63	15.38	17	17.69	18.19	10.1	76.7
1-5-2021	3-22-0	12.31	14.63	16.75	17.56	18.12	9.4	83.7
1-5-2021	3-37-0	11.88	14.25	16.56	17.5	18.12	8.9	90.1
1-5-2021	4-7-0	11.75	13.81	16.19	17.31	18.06	8.8	89.6
1-5-2021	4-22-0	11.5	13.56	16.19	17.25	18.06	8.6	90.6
1-5-2021	4-52-0	10.75	13	15.63	17.06	17.94	8.2	90.5
1-5-2021	5-7-0	10.56	12.75	15.44	17	17.94	8.2	89.4
1-5-2021	5-22-0	10.5	12.56	15.25	16.87	17.87	8.1	90.1
1-5-2021	5-37-0	10.44	12.5	15.06	16.81	17.87	8.3	87.6
1-5-2021	6-7-0	10.69	12.5	14.81	16.62	17.81	8.4	90.4
1-5-2021	6-22-0	10.81	12.56	14.69	16.5	17.75	8.5	90.2
1-5-2021	6-37-0	11	12.69	14.63	16.37	17.69	8.7	90.3
1-5-2021	6-52-0	11.13	12.69	14.56	16.31	17.62	9	86.9
1-5-2021	7-22-0	11.13	12.69	14.44	16.12	17.56	9.1	86.6
1-5-2021	7-37-0	11.06	12.69	14.38	16	17.5	9	89.4
1-5-2021	7-52-0	11.19	12.75	14.31	15.94	17.44	9.1	89.1

1-5-2021	8-22-0	11.44	12.75	14.19	15.75	17.31	9.4	87
1-5-2021	8-37-0	11.44	12.69	14.19	15.69	17.31	9.6	85.5
1-5-2021	8-52-0	11.81	12.81	14.13	15.63	17.25	9.5	89.7
1-5-2021	9-22-0	12.38	13.06	14.13	15.5	17.06	10.7	85
1-5-2021	9-52-0	12.69	13.19	14.13	15.38	17.06	11.3	83.1
1-5-2021	10-7-0	14.44	13.69	14.13	15.31	16.94	11.8	80.8
1-5-2021	10-52-0	15.69	15	14.5	15.19	16.87	13.6	70.7
1-5-2021	11-7-0	17.25	15.94	14.5	15.13	16.81	13.4	69
1-5-2021	11-37-0	18.69	16.87	15.06	15.13	16.75	15	66.3
1-5-2021	12-22-0	19.06	18.25	15.75	15.19	16.62	17	58.1
1-5-2021	12-37-0	23.19	19.37	16.5	15.19	16.56	16	59.3
1-5-2021	13-7-0	23	21.44	17.25	15.31	16.56	19.3	48.8
1-5-2021	13-22-0	25.31	21.69	17.62	15.38	16.56	18.4	53.6
1-5-2021	13-37-0	26.5	22.62	18	15.5	16.5	18.8	48.8
1-5-2021	13-52-0	25.06	23.06	18.37	15.56	16.56	19.5	46.6
1-5-2021	15-52-0	21.81	20.56	19	16.37	16.69	18.6	51.3
1-5-2021	16-7-0	21.81	20.69	19.06	16.44	16.62	19.1	51
1-5-2021	16-52-0	20.87	20.37	19.12	20.37	16.81	18.5	50.8
1-5-2021	17-7-0	19.69	19.87	19.06	16.81	16.81	18.5	50.2
1-5-2021	17-22-0	19.5	19.69	19	16.87	16.87	17.9	54.9
1-5-2021	17-37-0	19.5	19.56	18.94	16.94	16.94	17.4	58.2
1-5-2021	17-52-0	19.62	19.56	18.87	17	16.94	17.6	57.8
1-5-2021	18-7-0	19.44	19.5	18.81	17	17	18.3	55.4
1-5-2021	18-22-0	19.44	19.44	18.81	17.06	17	18.3	52.5
2-5-2021	4-22-0	11.44	12.69	14.5	15.88	17.19	9.4	94.4
2-5-2021	4-37-0	11.5	12.56	14.44	15.81	17.19	9.3	94.8
2-5-2021	4-52-0	11.25	12.44	14.31	15.75	17.12	9.1	95.3
2-5-2021	5-7-0	11.31	14.19	17.12	12.38	-127	9	95.7
2-5-2021	20-22-0	9.94	10.94	12.13	13.19	15.13	8.7	87.8
2-5-2021	20-37-0	9.75	10.81	12	13.13	15.06	8.6	88
2-5-2021	20-52-0	9.88	10.81	11.94	13.13	15.06	8.7	86.6
3-5-2021	0-37-0	8.06	9.5	11.06	12.56	14.69	7.6	89.3
3-5-2021	0-52-0	8.06	9.5	10.94	12.56	14.69	7.4	87.7
3-5-2021	1-7-0	8	9.44	10.94	12.5	14.63	7.3	87.8
3-5-2021	1-22-0	7.94	9.38	10.88	12.44	14.56	7.2	88.5
3-5-2021	1-37-0	7.81	9.25	10.81	12.44	14.56	7.2	85.9
3-5-2021	1-52-0	7.75	9.19	10.75	12.38	14.63	7.2	86
3-5-2021	2-7-0	7.69	9.06	10.69	12.31	14.56	7.1	84.9
3-5-2021	2-22-0	7.5	9	10.56	12.25	14.5	7	84.7
3-5-2021	2-37-0	7.38	8.88	10.5	12.25	14.44	6.8	85.3
3-5-2021	2-52-0	7.19	8.75	10.44	12.19	14.44	6.7	84.9
3-5-2021	3-7-0	7.25	8.69	10.38	12.13	14.38	6.5	86
3-5-2021	3-22-0	7.13	8.63	10.25	12.06	14.38	6.3	86.8
3-5-2021	3-52-0	7.13	8.56	10.13	12	14.31	6	85.6
3-5-2021	4-7-0	7	8.56	10.06	11.94	14.25	6	85.2
3-5-2021	4-22-0	6.88	8.44	10	11.88	14.25	5.9	84.5
3-5-2021	4-37-0	6.81	8.38	10	11.81	14.19	5.8	83.9
3-5-2021	4-52-0	6.69	8.31	9.88	11.75	14.19	5.6	83.5
3-5-2021	5-7-0	6.56	8.25	9.81	11.75	14.13	5.5	84.8
3-5-2021	5-22-0	6.38	8.19	9.75	11.69	14.06	5.3	85.7

3-5-2021	5-37-0	6.44	8.13	9.69	11.63	14.06	5.2	86.5
3-5-2021	5-52-0	6.31	8.06	9.63	11.56	14.06	5	86.8
3-5-2021	6-7-0	6.38	8	9.63	11.5	14	5	87.1
3-5-2021	6-22-0	6.25	8	9.56	11.5	14.06	4.9	87.4
3-5-2021	6-37-0	6.31	8	9.5	8	13.88	5	86.8
3-5-2021	6-52-0	6.38	8	9.44	11.38	13.81	5	86.9
3-5-2021	7-7-0	6.56	8	9.44	11.31	13.81	5.1	86.3
10-5-2021	10-26-59	24.69	23.75	18.75	16.62	17.5	22.5	36.6
10-5-2021	10-31-5	24.87	23.94	18.87	16.62	17.56	26.4	33.3
10-5-2021	10-31-11	24.87	23.94	18.87	16.62	17.56	26	31.6
10-5-2021	11-15-49	27.87	25.5	20.44	16.87	17.5	34.2	25.2
10-5-2021	11-18-29	26.25	25.5	20.5	16.87	17.44	33.6	26.1
10-5-2021	11-18-31	26.25	25.5	20.5	16.87	17.5	33.6	26.1
10-5-2021	11-18-32	26.25	25.5	20.5	16.87	17.5	32.2	27.2
10-5-2021	11-18-33	26.25	25.5	20.5	16.87	17.44	32.2	27.2
10-5-2021	11-18-34	26.25	25.5	20.5	16.87	17.44	32.1	27.2
10-5-2021	11-18-35	26.19	25.5	20.5	16.87	17.5	32.1	27.2
10-5-2021	11-18-36	26.19	25.5	20.5	16.87	17.44	32	27.1
10-5-2021	11-18-38	26.19	25.5	20.5	16.87	17.5	32	27.1
10-5-2021	11-18-39	26.19	25.5	20.5	16.87	17.5	32.1	27.2
10-5-2021	11-18-40	26.19	25.56	20.5	16.87	17.5	32.1	27.2
10-5-2021	11-18-44	26.19	25.5	20.5	16.87	17.44	32.1	27.2
10-5-2021	11-18-45	26.19	25.5	20.5	16.87	17.5	32.1	27.2
10-5-2021	11-18-46	26.12	25.5	20.5	16.87	17.5	32.2	27
10-5-2021	11-18-47	26.19	25.5	20.5	16.87	17.5	32.2	27
10-5-2021	11-18-49	26.12	25.5	20.5	16.87	17.5	32.2	27.1
10-5-2021	11-18-50	26.19	25.5	20.5	16.87	17.5	32.2	27.1
10-5-2021	11-18-51	26.19	25.5	20.5	16.87	17.5	32.2	27.1
10-5-2021	11-18-52	26.12	25.56	20.5	16.87	17.5	32.2	27.1
10-5-2021	11-18-53	26.19	25.56	20.5	16.87	17.5	32.3	26.9
10-5-2021	11-18-54	26.12	25.5	20.5	16.87	17.5	32.3	26.9
10-5-2021	11-18-56	26.12	25.5	20.5	16.87	17.5	32.3	26.9
10-5-2021	11-18-57	26.12	25.56	20.5	16.87	17.5	32.3	26.9
10-5-2021	11-18-58	26.12	25.5	20.5	16.87	17.56	32.4	26.9
10-5-2021	11-18-59	26.12	25.5	20.5	16.87	17.5	32.4	26.9
10-5-2021	11-19-0	26.06	25.5	20.5	16.87	17.5	32.4	26.9
10-5-2021	11-19-1	26.06	25.56	20.5	16.87	17.5	32.4	26.9
10-5-2021	11-19-3	26.06	25.5	20.5	16.87	17.5	32.4	26.8
10-5-2021	11-19-4	26.06	25.5	20.5	16.87	17.5	32.4	26.8
10-5-2021	11-19-5	26.12	25.5	20.5	16.87	17.5	32.4	26.8
10-5-2021	11-19-6	26.06	25.5	20.5	16.87	17.5	32.4	26.8
10-5-2021	11-19-7	26.06	25.5	20.5	16.94	17.56	32.5	26.8
10-5-2021	11-19-8	26.06	25.5	20.5	16.94	17.5	32.5	26.8
10-5-2021	11-19-10	26.06	25.56	20.56	16.87	17.44	32.5	26.8
10-5-2021	11-19-11	26.06	25.5	20.5	16.87	17.5	32.5	26.8
10-5-2021	11-19-12	26.06	25.5	20.5	16.87	17.5	32.6	26.7
10-5-2021	11-19-13	26.06	25.5	20.5	16.94	17.5	32.6	26.7
10-5-2021	11-19-14	26.06	25.5	20.5	16.87	17.5	32.6	26.7
10-5-2021	11-19-15	26.06	25.5	20.5	16.94	17.5	32.6	26.7
10-5-2021	11-19-16	26.06	25.56	20.5	16.94	17.5	32.6	26.6

10-5-2021	11-19-18	26.06	25.56	20.5	16.94	17.5	32.6	26.6
10-5-2021	11-19-19	26	25.5	20.56	16.94	17.5	32.7	26.8
10-5-2021	11-19-20	26	25.5	20.5	16.87	17.5	32.7	26.8
10-5-2021	11-19-21	26	25.56	20.5	16.87	17.5	32.7	26.9
10-5-2021	11-19-22	26	25.5	20.5	16.94	17.5	32.7	26.9
10-5-2021	11-19-23	26	25.56	20.5	16.94	17.5	32.8	26.8
10-5-2021	11-19-25	26	25.5	20.5	16.94	17.5	32.8	26.8
10-5-2021	11-19-26	26	25.5	20.5	16.94	17.5	32.8	26.7
10-5-2021	11-19-27	26	25.56	20.5	16.94	17.5	32.8	26.7
10-5-2021	11-19-28	26	25.5	20.5	16.87	17.5	32.8	26.4
10-5-2021	11-19-29	26	25.5	20.5	16.94	17.5	32.8	26.4
10-5-2021	11-19-30	26	25.56	20.56	16.94	17.5	32.9	26.3
10-5-2021	11-19-32	26	25.5	20.56	16.94	17.44	32.9	26.3
10-5-2021	11-19-33	26	25.5	20.5	16.94	17.44	32.9	26.5
10-5-2021	11-19-34	25.94	25.56	20.56	16.94	17.44	32.9	26.5
10-5-2021	11-19-35	26	25.5	20.56	16.87	17.44	32.9	26.6
10-5-2021	11-19-36	26	25.56	20.5	16.94	17.44	32.9	26.6
10-5-2021	11-19-37	25.94	25.5	20.56	16.94	17.5	33	26.5
10-5-2021	11-19-39	25.94	25.56	20.5	16.94	17.44	33	26.5
10-5-2021	11-19-40	25.94	25.5	20.5	16.94	17.44	33.1	26.6
10-5-2021	11-19-41	26	25.5	20.56	16.94	17.5	33.1	26.6
10-5-2021	11-19-42	25.94	25.5	20.56	16.94	17.44	33.1	26.5
10-5-2021	11-19-43	25.94	25.5	20.56	16.94	17.5	33.1	26.5
10-5-2021	11-19-44	26	25.5	20.56	16.94	17.44	33.1	26.4
10-5-2021	11-19-46	25.94	25.5	20.5	16.94	17.44	33.1	26.4
10-5-2021	11-19-47	25.94	25.5	20.5	16.94	17.5	33.2	26.6
10-5-2021	11-19-48	25.94	25.5	20.56	16.94	17.5	33.2	26.6
10-5-2021	11-19-49	25.87	25.5	20.56	16.94	17.5	33.2	26.5
10-5-2021	11-19-50	25.94	25.5	20.56	16.94	17.5	33.2	26.5
10-5-2021	11-19-51	25.94	25.5	20.56	16.94	17.5	33.3	26.4
10-5-2021	11-19-53	25.94	25.5	20.56	16.94	17.5	33.3	26.4
10-5-2021	11-19-54	25.94	25.5	20.56	16.94	17.44	33.2	26.4
10-5-2021	11-19-55	25.94	25.5	20.56	16.94	17.5	33.2	26.4
10-5-2021	11-19-56	25.94	25.5	20.56	16.94	17.44	33.3	26.4
10-5-2021	11-19-57	25.94	25.5	20.56	16.94	17.5	33.3	26.4
10-5-2021	11-19-58	25.94	25.5	20.56	16.94	17.5	33.3	26.4
10-5-2021	11-20-0	25.94	25.5	20.56	16.94	17.5	33.3	26.4
10-5-2021	11-20-1	25.94	25.5	20.56	16.94	17.5	33.3	26.1
10-5-2021	11-20-2	25.87	25.5	20.56	16.94	17.5	33.3	26.1
10-5-2021	11-20-3	25.94	25.5	20.56	16.94	17.5	33.3	25.9
10-5-2021	11-20-4	25.94	25.5	20.56	16.94	17.5	33.3	25.9
10-5-2021	11-20-5	25.94	25.5	20.56	16.94	17.5	33.3	25.8
10-5-2021	11-20-7	25.94	25.5	20.56	16.94	17.5	33.3	25.8
10-5-2021	11-20-8	25.94	25.5	20.56	16.94	17.44	33.4	25.8
10-5-2021	11-20-9	26	25.5	20.56	16.94	17.5	33.4	25.8
10-5-2021	11-20-10	25.94	25.5	20.56	16.94	17.5	33.4	25.8
10-5-2021	11-20-11	25.94	25.5	20.56	16.94	17.5	33.4	25.8
10-5-2021	11-20-12	25.87	25.5	20.56	16.94	17.5	33.5	25.8
10-5-2021	11-20-14	25.94	25.5	20.56	16.94	17.5	33.5	25.8
10-5-2021	11-20-15	25.94	25.5	20.56	16.94	17.5	33.5	25.6

10-5-2021	11-20-16	25.94	25.5	20.56	16.94	17.5	33.5	25.6
10-5-2021	11-20-17	25.94	25.5	20.56	16.94	17.5	33.5	25.5
10-5-2021	11-20-18	25.94	25.5	20.56	16.94	17.5	33.5	25.5
10-5-2021	11-20-19	25.94	25.5	20.56	16.94	17.44	33.6	25.7
10-5-2021	11-20-21	25.94	25.5	20.56	16.94	17.5	33.6	25.7
10-5-2021	11-20-22	25.87	25.5	20.56	16.94	17.44	33.6	26.3
10-5-2021	11-20-23	25.87	25.5	20.56	16.94	17.5	33.6	26.3
10-5-2021	11-20-24	25.87	25.5	20.56	16.94	17.44	33.6	26.4
10-5-2021	11-20-25	25.87	25.5	20.56	16.94	17.44	33.6	26.4
10-5-2021	11-20-26	25.87	25.5	20.56	16.94	17.5	33.6	26.2
10-5-2021	11-20-28	25.94	25.5	20.56	16.94	17.5	33.6	26.2
10-5-2021	11-20-29	25.87	25.5	20.56	16.94	17.44	33.6	25.8
10-5-2021	11-20-30	25.87	25.5	20.56	16.94	17.5	33.6	25.8
10-5-2021	11-20-31	25.87	25.5	20.56	16.94	17.5	33.7	25.7
10-5-2021	11-20-32	25.87	25.5	20.56	16.94	17.5	33.7	25.7
10-5-2021	11-20-33	25.87	25.5	20.56	16.94	17.5	33.8	25.8
10-5-2021	11-20-35	25.87	25.5	20.56	16.94	17.5	33.8	25.8
10-5-2021	11-20-36	25.87	25.5	20.56	16.94	17.5	33.8	25.6
10-5-2021	11-20-37	25.87	25.5	20.56	16.94	17.5	33.8	25.6
10-5-2021	11-20-38	25.87	25.5	20.56	16.94	17.5	33.8	25.8
10-5-2021	11-20-39	25.87	25.5	20.56	16.94	17.5	33.8	25.8
10-5-2021	11-20-40	25.87	25.5	20.56	16.94	17.5	33.8	25.9
10-5-2021	11-20-42	25.87	25.5	20.56	16.94	17.5	33.8	25.9
10-5-2021	11-20-43	25.87	25.5	20.56	16.94	17.5	33.9	25.9
10-5-2021	11-20-44	25.87	25.5	20.56	16.94	17.5	33.9	25.9
10-5-2021	11-20-45	25.87	25.5	20.56	16.94	17.5	33.9	25.8
10-5-2021	11-20-46	25.87	25.5	20.56	16.94	17.5	33.9	25.8
10-5-2021	11-20-47	25.87	25.5	20.56	16.94	17.5	34	26
10-5-2021	11-20-49	25.81	25.5	20.56	16.94	17.5	34	26
10-5-2021	11-20-50	25.87	25.5	20.56	16.94	17.5	34	26
10-5-2021	11-20-51	25.81	25.5	20.56	16.94	17.5	34	26
10-5-2021	11-20-52	25.81	25.5	20.56	16.94	17.5	34.1	25.9
10-5-2021	11-20-53	25.81	25.5	20.56	16.94	17.5	34.1	25.9
10-5-2021	11-20-54	25.75	25.5	20.56	16.94	17.5	34.2	25.8
10-5-2021	11-20-56	25.81	25.5	20.56	16.94	17.5	34.2	25.8
10-5-2021	11-20-57	25.81	25.5	20.56	16.94	17.5	34.2	25.7
10-5-2021	11-20-58	25.81	25.5	20.56	16.94	17.5	34.2	25.7
10-5-2021	11-20-59	25.81	25.5	20.56	16.94	17.5	34.3	25.7
10-5-2021	11-21-0	25.81	25.5	20.56	16.94	17.5	34.3	25.7
10-5-2021	11-21-1	25.81	25.5	20.56	16.94	17.5	34.3	25.5
10-5-2021	11-21-3	25.81	25.5	20.56	16.94	17.5	34.3	25.5
10-5-2021	11-21-4	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-5	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-6	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-7	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-8	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-10	25.81	25.5	20.56	16.94	17.5	34.4	25.3
10-5-2021	11-21-11	25.75	25.5	20.56	16.94	17.5	34.5	25.6
10-5-2021	11-21-12	25.81	25.5	20.56	16.94	17.5	34.5	25.6
10-5-2021	11-21-13	25.81	25.5	20.56	16.94	17.5	34.6	25.8

10-5-2021	11-21-14	25.75	25.5	20.56	16.94	17.44	34.6	25.8
10-5-2021	11-21-15	25.75	25.5	20.56	16.94	17.5	34.6	26.1
10-5-2021	11-21-17	25.75	25.5	20.56	16.94	17.5	34.6	26.1
10-5-2021	11-21-18	25.75	25.5	20.56	16.94	17.5	34.7	26.3
10-5-2021	11-21-19	25.81	25.5	20.56	16.94	17.5	34.7	26.3
10-5-2021	11-21-20	25.75	25.5	20.56	16.94	17.44	34.7	26.8
10-5-2021	11-21-21	25.75	25.5	20.56	16.94	17.5	34.7	26.8
10-5-2021	11-21-22	25.75	25.5	20.56	16.94	17.5	34.7	26.8
10-5-2021	11-21-24	25.75	25.5	20.56	16.94	17.44	34.7	26.8
10-5-2021	11-21-25	25.81	25.5	20.56	16.94	17.5	34.8	26.1
10-5-2021	11-21-26	25.75	25.5	20.56	16.94	17.5	34.8	26.1
10-5-2021	11-21-27	25.75	25.5	20.56	16.94	17.5	34.8	25.7
10-5-2021	11-21-28	25.75	25.5	20.56	16.94	17.5	34.8	25.7
10-5-2021	11-21-29	25.75	25.5	20.56	16.94	17.5	34.8	25.3
10-5-2021	11-21-31	25.75	25.5	20.56	16.94	17.5	34.8	25.3
10-5-2021	11-21-32	25.75	25.5	20.56	16.94	17.5	34.9	25.2
10-5-2021	11-21-33	25.75	25.5	20.56	16.94	17.5	34.9	25.2
10-5-2021	11-21-34	25.75	25.44	20.56	16.94	17.5	35	25.1
10-5-2021	11-21-35	25.75	25.5	20.56	16.94	17.5	35	25.1
10-5-2021	11-21-36	25.75	25.44	20.56	16.94	17.5	35	25
10-5-2021	11-21-37	25.75	25.44	20.56	16.94	17.5	35	25
10-5-2021	11-21-39	25.69	25.44	20.56	16.94	17.5	35	25.1
10-5-2021	11-21-40	25.75	25.5	20.56	16.94	17.44	35	25.1
10-5-2021	11-21-41	25.75	25.44	20.56	16.94	17.5	35	25.2
10-5-2021	11-21-42	25.75	25.44	20.56	16.94	17.5	35	25.2
10-5-2021	11-21-43	25.69	25.44	20.56	16.94	17.5	35	25.4
10-5-2021	11-21-44	25.69	25.44	20.56	16.94	17.5	35	25.4
10-5-2021	11-21-46	25.69	25.5	20.56	16.94	17.5	35.1	25.7
10-5-2021	11-21-47	25.69	25.44	20.56	16.94	17.5	35.1	25.7
10-5-2021	11-21-48	25.75	25.44	20.56	16.94	17.44	35.1	25.9
10-5-2021	11-21-49	25.69	25.5	20.56	16.94	17.44	35.1	25.9
10-5-2021	11-21-50	25.75	25.5	20.56	16.94	17.56	35.1	26
10-5-2021	11-21-51	25.75	25.44	20.56	16.94	17.5	35.1	26
10-5-2021	11-21-53	25.69	25.44	20.56	16.94	17.5	35.1	26
10-5-2021	11-21-54	25.69	25.5	20.56	16.94	17.5	35.1	26
10-5-2021	11-21-55	25.75	25.44	20.56	16.94	17.5	35.1	25.9
10-5-2021	11-21-56	25.69	25.44	20.56	16.94	17.5	35.1	25.9
10-5-2021	11-21-57	25.69	25.44	20.56	16.94	17.5	35.1	25.8
10-5-2021	11-21-58	25.69	25.44	20.56	16.94	17.5	35.1	25.8
10-5-2021	11-22-0	25.69	25.44	20.56	16.94	17.5	35.2	26
10-5-2021	11-22-1	25.69	25.44	20.56	16.94	17.5	35.2	26
10-5-2021	11-22-2	25.62	25.44	20.56	16.94	17.5	35.2	26
10-5-2021	11-22-3	25.62	25.44	20.56	16.94	17.5	35.2	26
10-5-2021	11-22-4	25.69	25.44	20.56	16.94	17.5	35.2	25.6
10-5-2021	11-22-5	25.69	25.44	20.56	16.94	17.5	35.2	25.6
10-5-2021	11-22-7	25.69	25.44	20.56	16.94	17.5	35.2	25.5
10-5-2021	11-22-8	25.69	25.44	20.56	16.94	17.5	35.2	25.5
10-5-2021	11-22-9	25.69	25.44	20.56	16.94	17.56	35.2	25.6
10-5-2021	11-22-10	25.69	25.44	20.56	16.94	17.5	35.2	25.6
10-5-2021	11-22-11	25.62	25.44	20.56	16.94	17.5	35.2	25.6

10-5-2021	11-22-12	25.69	25.44	20.56	16.94	17.5	35.2	25.6
10-5-2021	11-22-14	25.69	25.44	20.56	16.94	17.5	35.2	25.5
10-5-2021	11-22-15	25.62	25.44	20.56	16.94	17.5	35.2	25.5
10-5-2021	11-22-16	25.62	25.44	20.56	16.94	17.5	35.3	25.3
10-5-2021	11-22-17	25.62	25.44	20.56	16.94	17.5	35.3	25.3
10-5-2021	11-22-18	25.62	25.44	20.56	16.94	17.5	35.2	25.3
10-5-2021	11-22-19	25.62	25.44	20.56	16.94	17.5	35.2	25.3
10-5-2021	11-22-21	25.62	25.44	20.56	16.94	17.5	35.2	25.3
10-5-2021	11-22-22	25.62	25.44	20.62	16.94	17.44	35.2	25.3
10-5-2021	11-22-23	25.62	25.44	20.62	16.94	17.5	35.2	25.1
10-5-2021	11-22-24	25.62	25.44	20.62	16.94	17.5	35.2	25.1
10-5-2021	11-22-25	25.56	25.44	20.56	16.94	17.44	35.1	24.5
10-5-2021	11-22-26	25.62	25.44	20.56	16.94	17.44	35.1	24.5
10-5-2021	11-22-28	25.56	25.44	20.56	16.94	17.44	35	24.2
10-5-2021	11-22-29	25.56	25.44	20.62	16.94	17.44	35	24.2
10-5-2021	11-22-30	25.56	25.44	20.56	16.94	17.5	34.9	24.1
10-5-2021	11-22-31	25.56	25.44	20.56	16.94	17.5	34.9	24.1
10-5-2021	11-22-32	25.5	25.44	20.56	16.94	17.5	35	24.4
10-5-2021	11-22-33	25.5	25.44	20.56	16.94	17.5	35	24.4
10-5-2021	11-22-35	25.5	25.44	20.56	16.94	17.5	35	24.6
10-5-2021	11-22-36	25.56	25.44	20.62	16.94	17.44	35	24.6
10-5-2021	11-22-37	25.56	25.44	20.56	16.94	17.5	34.9	24.6
10-5-2021	11-22-38	25.56	25.44	20.56	16.94	17.5	34.9	24.6
10-5-2021	11-22-39	25.56	25.44	20.62	16.94	17.5	34.9	24.6
10-5-2021	11-22-40	25.56	25.44	20.56	16.94	17.5	34.9	24.6
10-5-2021	11-22-42	25.56	25.44	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-22-43	25.56	25.44	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-22-44	25.56	25.44	20.62	16.94	17.5	34.8	24.3
10-5-2021	11-22-45	25.56	25.44	20.62	16.94	17.5	34.8	24.3
10-5-2021	11-22-46	25.56	25.44	20.62	16.94	17.5	34.8	24.2
10-5-2021	11-22-47	25.5	25.44	20.62	16.94	17.5	34.8	24.2
10-5-2021	11-22-49	25.5	25.44	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-22-50	25.56	25.44	20.56	16.94	17.5	34.8	24.5
10-5-2021	11-22-51	25.56	25.44	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-22-52	25.5	25.44	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-22-53	25.5	25.44	20.62	16.94	17.5	34.8	24.6
10-5-2021	11-22-54	25.5	25.44	20.62	16.94	17.5	34.8	24.6
10-5-2021	11-22-56	25.5	25.44	20.62	16.94	17.5	34.8	24.8
10-5-2021	11-22-57	25.5	25.44	20.62	16.94	17.5	34.8	24.8
10-5-2021	11-22-58	25.5	25.44	20.62	16.94	17.5	34.8	24.8
10-5-2021	11-22-59	25.5	25.37	20.62	16.94	17.5	34.8	24.8
10-5-2021	11-23-0	25.5	25.37	20.62	16.94	17.44	34.7	24.4
10-5-2021	11-23-1	25.5	25.44	20.62	16.94	17.44	34.7	24.4
10-5-2021	11-23-3	25.5	25.37	20.62	16.94	17.44	34.7	24.5
10-5-2021	11-23-4	25.5	25.44	20.62	16.94	17.5	34.7	24.5
10-5-2021	11-23-5	25.44	25.37	20.56	16.94	17.5	34.7	25.2
10-5-2021	11-23-6	25.5	25.44	20.62	16.94	17.5	34.7	25.2
10-5-2021	11-23-7	25.5	25.44	20.62	16.94	17.5	34.8	25.1
10-5-2021	11-23-8	25.5	25.37	20.56	16.94	17.5	34.8	25.1
10-5-2021	11-23-10	25.5	25.44	20.62	16.94	17.44	34.8	24.8

10-5-2021	11-23-11	25.5	25.37	20.62	16.94	17.44	34.8	24.8
10-5-2021	11-23-12	25.5	25.37	20.62	16.94	17.5	34.8	24.6
10-5-2021	11-23-13	25.5	25.37	20.62	16.94	17.5	34.8	24.6
10-5-2021	11-23-14	25.5	25.37	20.62	16.94	17.5	34.8	24.5
10-5-2021	11-23-15	25.44	25.37	20.62	16.94	17.44	34.8	24.5
10-5-2021	11-23-17	25.5	25.37	20.62	16.94	17.44	34.8	24.7
10-5-2021	11-23-18	25.5	25.37	20.62	16.94	17.44	34.8	24.7
10-5-2021	11-23-19	25.44	25.37	20.62	16.94	17.5	34.8	24.8
10-5-2021	11-23-20	25.5	25.37	20.62	16.94	17.44	34.8	24.8
10-5-2021	11-23-21	25.5	25.37	20.62	16.94	17.44	34.8	24.9
10-5-2021	11-23-22	25.5	25.37	20.62	16.94	17.5	34.8	24.9
10-5-2021	11-23-24	25.44	25.37	20.62	16.94	17.44	34.9	25.1
10-5-2021	11-23-25	25.5	25.37	20.62	16.94	17.5	34.9	25.1
10-5-2021	11-23-26	25.5	25.37	20.62	16.94	17.5	34.9	25.1
10-5-2021	11-23-27	25.44	25.37	20.62	16.94	17.5	34.9	25.1
10-5-2021	11-23-28	25.44	25.37	20.62	16.94	17.5	34.9	25.2
10-5-2021	11-23-29	25.5	25.37	20.62	16.94	17.5	34.9	25.2
10-5-2021	11-23-31	25.44	25.37	20.62	16.94	17.5	34.9	25.2
10-5-2021	11-23-32	25.44	25.37	20.62	16.94	17.5	34.9	25.2
10-5-2021	11-23-33	25.44	25.37	20.62	16.94	17.44	35	25.2
10-5-2021	11-23-34	25.44	25.37	20.62	16.94	17.5	35	25.2
10-5-2021	11-23-35	25.44	25.37	20.62	16.94	17.5	35	25.1
10-5-2021	11-23-36	25.44	25.37	20.62	16.94	17.5	35	25.1
10-5-2021	11-23-38	25.44	25.37	20.62	16.94	17.5	35	25
10-5-2021	11-23-39	25.44	25.37	20.62	16.94	17.5	35	25
10-5-2021	11-23-40	25.5	25.37	20.62	16.94	17.5	35	24.8
10-5-2021	11-23-41	25.44	25.37	20.62	16.94	17.5	35	24.8
10-5-2021	11-23-42	25.44	25.37	20.62	16.94	17.5	35	24.5
10-5-2021	11-23-43	25.5	25.37	20.62	16.94	17.5	35	24.5
10-5-2021	11-23-45	25.44	25.37	20.62	16.94	17.5	35	24.5
10-5-2021	11-23-46	25.44	25.37	20.62	16.94	17.5	35	24.5
10-5-2021	11-23-47	25.44	25.37	20.62	16.94	17.5	35.1	24.7
10-5-2021	11-23-48	25.44	25.37	20.62	16.94	17.5	35.1	24.7
10-5-2021	11-23-49	25.44	25.37	20.62	16.94	17.56	35.1	24.7
10-5-2021	11-23-50	25.44	25.37	20.62	16.94	17.5	35.1	24.7
10-5-2021	11-23-52	25.44	25.37	20.62	16.94	17.5	35.2	24.8
10-5-2021	11-23-53	25.44	25.37	20.62	16.94	17.5	35.2	24.8
10-5-2021	11-23-54	25.44	25.37	20.62	16.94	17.5	35.2	24.9
10-5-2021	11-23-55	25.37	25.37	20.62	16.94	17.5	35.2	24.9
10-5-2021	11-23-56	25.44	25.31	20.62	16.94	17.5	35.2	25
10-5-2021	11-23-57	25.37	25.37	20.62	16.94	17.5	35.2	25
10-5-2021	11-23-59	25.37	25.37	20.62	16.94	17.5	35.2	24.9
10-5-2021	11-24-0	25.44	25.31	20.62	16.94	17.5	35.2	24.9
10-5-2021	11-24-1	25.44	25.37	20.62	16.94	17.5	35.2	24.8
10-5-2021	11-24-2	25.44	25.37	20.62	16.94	17.5	35.2	24.8
10-5-2021	11-24-3	25.37	25.37	20.62	16.94	17.5	35.3	24.8
10-5-2021	11-24-4	25.44	25.31	20.62	16.94	17.5	35.3	24.8
10-5-2021	11-24-6	25.44	25.31	20.62	16.94	17.5	35.3	24.7
10-5-2021	11-24-7	25.44	25.31	20.62	16.94	17.5	35.3	24.7
10-5-2021	11-24-8	25.37	25.31	20.62	16.94	17.44	35.3	24.6

10-5-2021	11-24-9	25.37	25.31	20.62	16.94	17.5	35.3	24.6
10-5-2021	11-24-10	25.37	25.31	20.62	16.94	17.44	35.3	24.5
10-5-2021	11-24-11	25.37	25.31	20.62	16.94	17.5	35.3	24.5
10-5-2021	11-24-13	25.37	25.31	20.62	16.94	17.5	35.3	24.1
10-5-2021	11-24-14	25.37	25.37	20.62	16.94	17.5	35.3	24.1
10-5-2021	11-24-15	25.37	25.31	20.62	16.94	17.5	35.3	24.2
10-5-2021	11-24-16	25.37	25.31	20.62	16.94	17.5	35.3	24.2
10-5-2021	11-24-24	25.37	25.31	20.62	16.94	17.5	35.3	24.3
10-5-2021	11-24-29	25.37	25.31	20.62	16.94	17.5	35.4	24.9
10-5-2021	11-25-18	25.31	25.19	20.62	16.87	17.5	35.4	23
10-5-2021	11-40-0	29.19	26.19	20.87	17	17.5	35.3	24
10-5-2021	11-55-0	31.5	27.62	21.25	17.12	17.37	29.5	30.2
10-5-2021	12-10-0	33.38	29	21.69	17.25	17.44	27.8	30
10-5-2021	12-25-0	34.5	30	22.25	17.44	17.5	28	30.8
10-5-2021	12-40-0	35.88	30.81	22.75	17.56	17.5	27.8	30.8
10-5-2021	12-55-0	36.56	31.5	23.31	17.69	17.5	28.4	30.6
10-5-2021	13-10-0	37.5	32.06	23.81	17.87	17.5	28.7	30.2
10-5-2021	13-25-0	38.06	32.44	24.31	18.06	17.56	29.6	29.3
10-5-2021	13-40-0	38.19	32.75	24.81	18.25	17.56	30	29.1
10-5-2021	13-55-0	38.69	33.06	25.25	18.44	17.69	30	33
10-5-2021	14-10-0	38.5	33.19	25.69	18.69	17.75	30.8	29.1
10-5-2021	14-25-0	38.13	33.25	26.12	18.94	17.81	30.7	33.1
10-5-2021	14-40-0	37.69	33.31	26.44	19.12	17.87	30.9	29.8
10-5-2021	14-55-0	37.19	33.38	26.81	19.37	17.94	31	28.6
10-5-2021	15-10-0	36.75	33.38	27.12	19.62	18.06	31.7	27.6
10-5-2021	15-25-0	36.19	33.44	27.44	19.81	18.12	31.6	28.3
10-5-2021	15-40-0	35.31	33.44	27.69	20.06	18.19	32.2	28.2
10-5-2021	15-55-0	34.81	33.5	27.94	20.25	18.31	31.9	27.9
10-5-2021	16-10-0	34.06	32.94	28.06	20.5	18.44	32.5	27.7
10-5-2021	16-25-0	32.63	32	28	20.69	18.5	31.4	28.6
10-5-2021	16-40-0	31.62	31.19	27.87	20.87	18.69	31.1	28.7
10-5-2021	16-55-0	30.75	30.56	27.69	21.06	18.75	31	30.4
10-5-2021	17-10-0	30.56	30.19	27.44	21.25	18.81	30.4	29.3
10-5-2021	17-25-0	30.25	29.75	27.25	21.44	19	30.4	30.3
10-5-2021	17-40-0	29.87	29.44	27.12	21.56	19.12	29.9	29.9
10-5-2021	17-55-0	29.94	29.19	26.94	21.69	19.19	30.1	30.7
10-5-2021	18-10-0	29.12	29	26.87	21.75	19.31	30.1	31.1
10-5-2021	18-25-0	28.5	28.62	26.75	21.87	19.5	29.6	31.8
10-5-2021	18-40-0	28	28.25	26.62	21.94	19.56	28.9	33
10-5-2021	18-55-0	27.5	27.87	26.5	22	19.69	28.3	33.4
10-5-2021	19-10-0	27	27.5	26.37	22.12	19.75	27.2	35.1
10-5-2021	19-25-0	26.62	27.12	26.19	22.19	19.87	26.5	35.6
10-5-2021	19-40-0	26.12	26.81	26	22.25	19.94	26.2	36.8
10-5-2021	19-55-0	25.69	26.44	25.87	22.31	20.06	25.6	38.2
10-5-2021	20-10-0	25.25	26.12	25.69	22.31	20.19	25.1	39.5
10-5-2021	20-25-0	24.81	25.75	25.44	22.37	20.25	24.7	40.6
10-5-2021	20-40-0	24.56	25.5	25.31	22.37	20.31	24.2	41.8
10-5-2021	20-55-0	24.06	25.12	25.12	22.44	20.44	23.5	43.5
10-5-2021	21-10-0	23.56	24.75	24.94	22.44	20.5	22.2	47.8
10-5-2021	21-25-0	23.19	24.44	24.75	22.44	20.56	21	53.6

10-5-2021	21-40-0	22.69	24.06	24.56	22.44	20.62	19.7	58.8
10-5-2021	21-55-0	22.31	23.69	24.37	22.44	20.75	18.5	63.2
10-5-2021	22-10-0	21.94	23.44	24.12	22.37	20.75	18.1	65.4
10-5-2021	22-25-0	21.56	23.12	23.94	22.37	20.75	18	66.2
10-5-2021	22-40-0	21.25	22.81	23.75	22.31	20.87	17.4	68.7
10-5-2021	22-55-0	21.06	22.62	23.56	22.31	20.87	16.9	71.5
10-5-2021	23-10-0	20.75	22.37	23.37	22.25	20.94	17.5	69.3
10-5-2021	23-25-0	20.62	22.19	23.19	22.19	20.94	16.7	72.7
10-5-2021	23-40-0	20.5	22	23.06	22.19	21	17.3	70.7
10-5-2021	23-55-0	20.31	21.87	22.87	22.12	21.06	17.4	69.4
11-5-2021	0-10-0	20.12	21.69	22.75	22.06	21.06	17.6	68.9
11-5-2021	0-25-0	19.94	21.5	22.56	22	21.06	17.4	68.9
11-5-2021	0-40-0	19.81	21.37	22.44	21.94	21.06	17.3	69
11-5-2021	0-55-0	19.62	21.19	22.31	21.87	21.06	17.4	67.9
11-5-2021	1-10-0	19.5	21.06	22.19	21.81	21.06	17.5	66.6
11-5-2021	1-25-0	19.37	20.94	22	21.75	21.06	17.5	66
11-5-2021	1-40-0	19.25	20.81	21.87	21.69	21.12	17.5	65.2
11-5-2021	1-55-0	19.06	20.69	21.75	21.62	21.06	17.4	65.1
11-5-2021	2-10-0	18.94	20.5	21.62	21.5	21.12	17	66.5
11-5-2021	2-25-0	18.69	20.31	21.5	21.44	21.06	16.6	67.9
11-5-2021	2-40-0	18.5	20.19	21.44	21.37	21.06	16.5	68.1
11-5-2021	2-55-0	18.37	20.06	21.25	21.31	21.06	16.3	68.5
11-5-2021	3-10-0	18.25	19.94	21.12	21.25	21.06	16.1	68.9
11-5-2021	3-25-0	18.12	19.81	21	21.19	21.06	16.1	68.6
11-5-2021	3-40-0	18.06	19.69	20.87	21.12	21	16	68.4
11-5-2021	3-55-0	17.87	19.56	20.81	21.06	21	16	68.5
11-5-2021	4-10-0	17.75	19.44	20.69	20.94	21	15.9	68.7
11-5-2021	4-25-0	17.62	19.31	20.56	20.87	20.94	15.7	69.3
11-5-2021	4-40-0	17.5	19.19	20.44	20.81	21	15.7	69.5
11-5-2021	4-55-0	17.5	19.12	20.37	20.75	20.94	15.7	69.1
11-5-2021	5-10-0	17.37	19	20.25	20.69	20.87	15.7	68.9
11-5-2021	5-25-0	17.31	18.87	20.12	20.62	20.87	15.6	68.8
11-5-2021	5-40-0	17.19	18.81	20.06	20.5	20.81	15.6	69.4
11-5-2021	5-55-0	17.19	18.75	19.94	20.44	20.81	15.6	69.3
11-5-2021	6-10-0	17.19	18.69	19.87	20.37	20.75	15.8	69
11-5-2021	6-25-0	17.25	18.69	19.75	20.31	20.75	15.9	69.1
11-5-2021	6-40-0	17.25	18.69	19.75	20.25	20.75	16.2	68.7
11-5-2021	6-55-0	17.31	18.69	19.62	20.19	20.69	16.6	67.9
11-5-2021	7-10-0	17.31	18.69	19.56	20.12	20.62	16.9	66.4
11-5-2021	7-25-0	17.44	18.69	19.56	20.06	20.62	17.2	66.1
11-5-2021	7-40-0	17.56	18.75	19.5	20	20.56	17.6	66.3
11-5-2021	7-55-0	17.62	18.75	19.44	19.94	20.62	18	65.5
11-5-2021	8-1-34	17.81	18.81	19.44	19.87	20.56	18.5	65.7
11-5-2021	8-16-0	17.81	18.87	19.44	19.87	20.56	18.6	64.3
11-5-2021	8-31-0	17.94	18.94	19.37	19.75	20.5	19	64.2
11-5-2021	8-46-0	18.12	19	19.37	19.75	20.44	19.5	61.6
11-5-2021	9-1-0	18.5	19.19	19.37	19.69	20.37	20.5	61.6
11-5-2021	9-16-0	21.44	20.37	19.44	19.62	20.37	22.1	50.8
11-5-2021	9-31-0	23.44	21.94	19.69	19.56	20.31	24.5	44.1
11-5-2021	9-46-0	25.12	23.37	20.12	19.56	20.25	25.9	39.6

11-5-2021	10-1-0	26.69	24.75	20.69	19.5	20.25	26.6	37.7
11-5-2021	10-16-0	28.06	26	21.25	19.5	20.25	27.6	35.1
11-5-2021	10-31-0	29.25	27.12	21.87	19.56	20.25	27.8	35
11-5-2021	10-46-0	30.5	28.19	22.5	19.62	20.19	28.1	34.4
11-5-2021	11-1-0	31.81	29.25	23.06	19.69	20.19	28.8	33.3
11-5-2021	11-16-0	33.25	30.31	23.69	19.75	20.12	29.9	32.9
11-5-2021	11-31-0	34.69	31.5	24.25	19.87	20.12	31	31
11-5-2021	11-46-0	35.94	32.56	24.87	20	20.12	31	29.6
11-5-2021	12-1-0	36.5	33.44	25.44	20.12	20.12	31.3	29
11-5-2021	12-16-0	37.44	33.75	26	20.31	20.19	32.9	27.4
11-5-2021	12-31-0	38	34.25	26.37	20.44	20.19	38	25.3
11-5-2021	12-46-0	38.63	34.88	26.87	20.62	20.19	46.4	21.1
11-5-2021	13-1-0	39.63	35.5	27.37	20.81	20.19	37	24.1
11-5-2021	13-16-0	40.19	35.94	27.81	21	20.25	33.1	27.2
11-5-2021	13-31-0	40.56	36.19	28.19	21.25	20.25	32.5	27.4
11-5-2021	13-46-0	41.06	36.38	28.56	21.44	20.37	32.3	26.5
11-5-2021	14-1-0	39.63	36.19	28.94	21.62	20.37	32.6	27.1
11-5-2021	14-16-0	37.19	35.38	29.25	21.87	20.5	31.3	26.6
11-5-2021	14-31-0	38.13	34.88	29.37	22.06	20.56	30.8	28
11-5-2021	14-46-0	39.06	35.19	29.44	22.31	20.62	32	27.5
11-5-2021	15-1-0	38.31	35.25	29.62	22.5	20.69	32.7	27.2
11-5-2021	15-16-0	38.25	35.38	29.87	22.69	20.81	32.3	27.5
11-5-2021	15-31-0	37.69	35.38	30.06	22.87	20.87	33.3	26.4
11-5-2021	15-46-0	36.88	35.38	30.31	23.06	21	33.9	26
11-5-2021	16-1-0	36	35.31	30.5	23.25	21	33.9	27
11-5-2021	16-16-0	35.5	35.19	30.62	23.44	21.12	33.3	27.1
11-5-2021	16-31-0	34.94	35.06	30.75	23.62	21.25	33	27.2
11-5-2021	16-46-0	34.5	34.88	30.75	23.75	21.37	32.9	27.7
11-5-2021	17-2-5	35.94	34.25	30.75	23.94	21.5	31	26.7
11-5-2021	17-2-16	35.94	34.25	30.75	23.94	21.5	30.9	27.6
11-5-2021	17-17-0	34.25	33.69	30.62	24.12	21.56	30.9	27.7
11-5-2021	17-32-0	33.25	33.19	30.5	24.25	21.69	32.2	27.1
11-5-2021	17-47-0	32.63	32.63	30.31	24.44	21.75	31.7	27.4
11-5-2021	18-2-0	32.06	32.19	30.19	24.56	21.87	31.3	28.1
11-5-2021	18-17-0	31.31	31.69	30	24.69	22	30.8	28.5
11-5-2021	18-32-0	30.69	31.19	29.81	24.75	22.12	30.5	29.6
11-5-2021	18-47-0	30	30.75	29.62	24.87	22.19	29.9	29.2
11-5-2021	19-2-0	29.44	30.25	29.37	24.94	22.31	29.2	30
11-5-2021	19-17-0	28.94	29.81	29.19	25	22.44	28.4	31.2
11-5-2021	19-32-0	28.5	29.44	28.94	25.06	22.5	27.8	32.1
11-5-2021	19-47-0	28.12	29.06	28.75	25.12	22.56	27.4	32.4
11-5-2021	20-2-0	27.81	28.75	28.5	25.12	22.69	27	32.8
11-5-2021	20-17-0	27.37	28.44	28.31	25.19	22.75	26.8	32.2
11-5-2021	20-32-0	27	28.12	28.12	25.19	22.87	26.5	32.2
11-5-2021	20-47-0	26.62	27.81	27.94	25.19	22.94	26.2	33.1
11-5-2021	21-2-0	26.31	27.5	27.69	25.19	23	25.8	33.1
11-5-2021	21-17-0	25.94	27.19	27.56	25.19	23.06	25.5	33.2
11-5-2021	21-32-0	25.69	26.94	27.31	25.19	23.12	25.3	34.5
11-5-2021	21-47-0	25.44	26.69	27.12	25.12	23.25	25	34.8
11-5-2021	22-2-0	25.19	26.5	26.94	25.12	23.25	24.7	35.3

11-5-2021	22-17-0	24.94	26.25	26.81	25.06	23.31	24.5	35.9
11-5-2021	22-32-0	24.81	26.06	26.62	25.06	23.37	24.3	36.4
11-5-2021	22-47-0	24.56	25.94	26.44	25	23.44	24.2	36.8
11-5-2021	23-2-0	24.44	25.75	26.31	24.94	23.44	24	37.4
11-5-2021	23-17-0	24.25	25.56	26.19	24.87	23.44	23.9	38.3
11-5-2021	23-32-0	24	25.37	26	24.87	23.44	23.8	39
11-5-2021	23-47-0	23.81	25.19	25.87	24.81	23.5	23.6	39.9
12-5-2021	0-2-0	23.56	25	25.75	24.75	23.5	23.3	40.4
12-5-2021	0-17-0	23.31	24.81	25.62	24.69	23.56	23	41.6
12-5-2021	0-32-0	23.06	24.56	25.44	24.62	23.56	22.5	43.8
12-5-2021	0-47-0	22.81	24.37	25.31	24.56	23.56	21.8	46.6
12-5-2021	1-2-0	22.44	24.06	25.19	24.5	23.56	20.9	49.3
12-5-2021	1-17-0	22.12	23.81	25	24.44	23.56	19.7	55.5
12-5-2021	1-32-0	21.81	23.5	24.87	24.37	23.56	18.5	58.3
12-5-2021	1-47-0	21.56	23.31	24.69	24.31	23.62	17.6	63
12-5-2021	2-2-0	21.5	23.19	24.5	24.25	23.56	17.5	62.7
12-5-2021	2-17-0	21.25	23	24.37	24.19	23.56	17.9	60.6
12-5-2021	2-32-0	21	22.75	24.19	24.12	23.56	17.4	65.3
12-5-2021	2-47-0	20.69	22.56	24.06	24.06	23.5	17.2	66.3
12-5-2021	3-2-0	20.56	22.37	23.87	23.94	23.5	16.2	70.9
12-5-2021	3-17-0	20.31	22.12	23.75	23.87	23.5	16.1	70.5
12-5-2021	3-32-0	20.19	22	23.56	23.81	23.5	15.4	74.4
12-5-2021	3-47-0	19.94	21.81	23.44	23.75	23.5	16.1	72.4
12-5-2021	4-2-0	19.81	21.62	23.31	23.69	23.44	15.2	76
12-5-2021	4-17-0	19.62	21.44	23.12	23.56	23.44	15.3	76.5
12-5-2021	4-32-0	19.44	21.25	23	23.5	23.37	14.8	79
12-5-2021	4-47-0	19.31	21.12	22.87	23.37	23.37	14.3	82.8
12-5-2021	5-2-0	19.12	20.94	22.69	23.31	23.37	14.4	82.5
12-5-2021	5-17-0	19	20.81	22.56	23.25	23.31	14.1	84.5
12-5-2021	5-32-0	18.94	20.69	22.44	23.12	23.31	14	88.2
12-5-2021	5-47-0	18.94	20.69	22.31	23.06	23.31	14.1	90.8
12-5-2021	6-2-0	18.87	20.62	22.19	23	23.25	15.3	91.9
12-5-2021	6-17-0	18.87	20.56	22.12	22.87	23.19	15.6	90.7
12-5-2021	6-32-0	19.12	20.56	22	22.81	23.19	15.6	90.9
12-5-2021	6-47-0	19.25	20.62	21.94	22.75	23.12	16.1	88.6
12-5-2021	7-2-0	19.5	20.69	21.87	22.62	23.06	16.5	87.1
12-5-2021	7-17-0	19.62	20.81	21.81	22.56	23.06	16.8	87.9
12-5-2021	7-32-0	19.62	20.81	21.81	22.5	23	17.2	85.2
12-5-2021	7-47-0	19.75	20.87	21.75	22.44	22.94	17.6	83.4
12-5-2021	8-2-0	19.81	20.94	21.75	22.31	22.94	17.8	82.5
12-5-2021	8-17-0	19.87	21	21.69	22.25	22.87	17.8	81.8
12-5-2021	8-32-0	20.19	21.06	21.69	22.19	22.81	18.1	80.9
12-5-2021	8-47-0	20.37	21.19	21.69	22.12	22.81	18.5	81.2
12-5-2021	9-2-0	20.56	21.25	21.69	22.06	22.75	18.6	78.4
12-5-2021	9-17-0	20.81	21.37	21.69	22	22.75	18.6	83.2
12-5-2021	9-32-0	21	21.44	21.75	22	22.62	19	79.5
12-5-2021	9-47-0	20.94	21.56	21.75	21.94	22.62	18.8	79.4
12-5-2021	10-2-0	21.5	21.69	21.81	21.87	22.62	18.8	76.6
12-5-2021	10-17-0	22	22.19	21.81	21.87	22.56	19.6	74
12-5-2021	10-32-0	22.12	22.31	21.94	21.81	22.5	20.5	70.4

12-5-2021	10-47-0	22.25	22.37	22	21.81	22.5	20.5	69
12-5-2021	11-2-0	22.94	22.69	22.06	21.75	22.5	20.7	70.1
12-5-2021	11-17-0	23.94	23.19	22.19	21.75	22.44	21.6	66.9
12-5-2021	11-32-0	24.25	23.69	22.31	21.75	22.37	22.1	63.8
12-5-2021	11-47-0	25.56	24.37	22.5	21.69	22.37	22.2	62
12-5-2021	12-2-0	26.56	24.75	22.69	21.75	22.37	23.2	59.8
12-5-2021	12-17-0	27.75	25.56	22.94	21.75	22.31	23.7	59.7
12-5-2021	12-32-0	28.5	26.56	23.25	21.75	22.31	24.4	59.5
12-5-2021	12-47-0	30.87	27.37	23.62	21.75	22.25	25	54.7
12-5-2021	13-2-0	29.12	28.25	24	21.81	22.31	25.7	54.8
12-5-2021	13-17-0	27.69	27.37	24.37	21.87	22.25	25.7	51.2
12-5-2021	13-32-0	28	26.94	24.5	21.94	22.19	24.6	53.9
12-5-2021	13-47-0	28.56	27.06	24.56	22	22.25	24.5	55.4
12-5-2021	14-2-0	29.19	27.19	24.69	22.06	22.25	24.3	59.4
12-5-2021	14-17-0	27.81	27.37	24.81	22.12	22.19	25	54.3
12-5-2021	14-32-0	26.44	26.69	24.94	22.19	22.25	24.6	55.2
12-5-2021	14-47-0	25.31	26	24.94	22.25	22.25	22.9	61
12-5-2021	15-2-0	26.06	25.75	24.81	22.37	22.25	21.4	66.7
12-5-2021	15-17-0	26.31	25.69	24.75	22.44	22.31	21.3	69.2
12-5-2021	15-32-0	26.69	26.12	24.75	22.5	22.31	21.2	68.9
12-5-2021	15-47-0	26.81	26.44	24.81	22.56	22.31	22.4	63.5
12-5-2021	16-2-0	26.62	26.44	24.94	22.56	22.31	22.5	63.1
12-5-2021	16-17-0	26.31	26.56	25	22.62	22.31	22.4	63.2
12-5-2021	16-32-0	25.62	26.19	25.12	22.69	22.37	22.6	62.4
12-5-2021	16-47-0	25.62	26	25.06	22.69	22.37	21.5	64.1
12-5-2021	17-2-0	25.62	25.87	25	22.75	22.44	21.7	63.1
12-5-2021	17-17-0	25	25.69	25	22.81	22.44	21.9	65
12-5-2021	17-32-0	24.62	25.37	24.94	22.87	22.44	21.1	66.1
12-5-2021	17-47-0	24.44	25.12	24.81	22.87	22.56	20.5	69
12-5-2021	18-2-0	24.06	24.87	24.75	22.94	22.56	20.6	68.8
12-5-2021	18-17-0	23.81	24.62	24.62	22.94	22.56	20.3	71.1
12-5-2021	18-32-0	23.5	24.37	24.5	23	22.62	19.6	72.7
12-5-2021	18-47-0	23.06	24.12	24.44	23	22.62	19.4	73.4
12-5-2021	19-2-0	22.81	23.87	24.31	23	22.69	18.8	75.4
12-5-2021	19-17-0	22.56	23.62	24.19	23	22.69	18.5	77
12-5-2021	19-32-0	22.25	23.44	24	23	22.69	18.3	77.5
12-5-2021	19-47-0	21.94	23.19	23.87	23	22.75	18	79.6
12-5-2021	20-2-0	21.5	22.94	23.75	23	22.75	17.7	79.3
12-5-2021	20-17-0	21.12	22.69	23.62	22.94	22.75	17.5	80.5
12-5-2021	20-32-0	21	22.44	23.44	22.94	22.75	17.3	81.6
12-5-2021	20-47-0	20.75	22.25	23.31	22.94	22.81	17.1	82.6
12-5-2021	21-2-0	20.69	22.06	23.19	22.87	22.81	16.9	82.4
12-5-2021	21-17-0	20.37	21.87	23.06	22.81	22.81	16.8	83.8
12-5-2021	21-32-0	20.12	21.69	22.87	22.81	22.81	16.7	83.9
12-5-2021	21-47-0	20	21.56	22.81	22.75	22.75	16.5	84.4
12-5-2021	22-2-0	19.81	21.44	22.62	22.75	22.75	16.4	85.1
12-5-2021	22-17-0	19.81	21.31	22.56	22.69	22.75	16.3	85.5
12-5-2021	22-32-0	19.69	21.19	22.44	22.62	22.75	16.2	86.4
12-5-2021	22-47-0	19.5	21.06	22.31	22.56	22.81	16.2	86.9
12-5-2021	23-2-0	19.56	21	22.19	22.5	22.81	16.1	86.4

12-5-2021	23-17-0	19.5	20.87	22.12	22.44	22.75	16.1	86.7
12-5-2021	23-32-0	19.44	20.81	22	22.37	22.75	16.1	86.7
12-5-2021	23-47-0	19.31	20.75	21.94	22.37	22.75	16.1	86.7
13-5-2021	0-2-0	19.19	20.69	21.87	22.31	22.75	16	86.3
13-5-2021	0-17-0	18.37	20.31	21.75	22.19	22.75	16.1	90.5
13-5-2021	0-32-0	18.12	20	21.62	22.19	22.69	15.2	93.3
13-5-2021	0-47-0	17.75	19.81	21.44	22.12	22.69	15.1	94.8
13-5-2021	1-2-0	17.12	19.56	21.31	22.06	22.69	15	95.6
13-5-2021	1-17-0	16.81	19.25	21.12	22	22.62	14.8	95.3
13-5-2021	1-32-0	16.37	19	20.94	21.94	22.62	14.6	96.1
13-5-2021	1-47-0	16.44	18.81	20.81	21.87	22.56	14.5	96.2
13-5-2021	2-2-0	16.56	18.75	20.62	21.75	22.56	14.5	96.4
13-5-2021	2-17-0	16.69	18.62	20.5	21.69	22.5	14.5	96.2
13-5-2021	2-32-0	16.44	18.56	20.37	21.62	22.5	14.5	96.3
13-5-2021	2-47-0	16.44	18.5	20.25	21.56	22.5	14.6	96.1
13-5-2021	3-2-0	16.44	18.44	20.12	21.44	22.44	14.5	95.9
13-5-2021	3-17-0	16.31	18.31	20.06	21.37	22.37	14.5	96
13-5-2021	3-32-0	16.19	18.25	19.94	21.31	22.37	14.5	96.4
13-5-2021	3-47-0	16.12	18.12	19.87	21.19	22.31	14.4	95.7
13-5-2021	4-2-0	16.06	18	19.75	21.12	22.25	14.3	96.4
13-5-2021	4-17-0	15.88	17.87	19.62	21.06	22.25	14.3	96.3
13-5-2021	4-32-0	15.88	17.81	19.56	21	22.25	14.2	96.4
13-5-2021	4-47-0	15.88	17.75	19.44	20.94	22.12	14.1	96.3
13-5-2021	5-2-0	15.81	17.69	19.37	20.81	22.06	14.1	96.6
13-5-2021	5-17-0	15.88	17.62	19.25	20.75	22.06	14	96.4
13-5-2021	5-32-0	15.94	17.62	19.19	20.69	22	14.1	96.6
13-5-2021	5-47-0	15.81	17.56	19.12	20.62	21.94	14.1	96.5
13-5-2021	6-2-0	15.94	17.56	19.06	20.5	21.94	14.1	96.3
13-5-2021	6-17-0	16.06	17.56	19	20.44	21.94	14.1	96.2
13-5-2021	6-32-0	16.12	17.56	18.94	20.37	21.81	14.1	96.2
13-5-2021	6-47-0	16.12	17.62	18.87	20.31	21.81	14.2	96.3
13-5-2021	7-2-0	16.12	17.62	18.87	20.25	21.81	14.2	95.5
13-5-2021	7-17-0	16.19	17.62	18.81	20.19	21.69	14.2	95.8
13-5-2021	7-32-0	16.25	17.69	18.81	20.12	21.69	14.3	95.4
13-5-2021	7-47-0	16.44	17.69	18.75	20.06	21.62	14.4	95
13-5-2021	8-2-0	16.31	17.69	18.75	20	21.5	14.4	95.6
13-5-2021	8-17-0	16.31	17.69	18.75	19.94	21.56	14.5	94.9
13-5-2021	8-32-0	16.5	17.75	18.69	19.94	21.5	14.5	94.9
13-5-2021	8-47-0	16.5	17.81	18.69	19.87	21.44	14.5	95.1
13-5-2021	9-2-0	16.62	17.87	18.69	19.81	21.37	14.7	94.2
13-5-2021	9-17-0	16.81	17.94	18.69	19.75	21.31	14.9	93
13-5-2021	9-32-0	16.87	18	18.69	19.69	21.31	14.9	93.3
13-5-2021	9-47-0	17.12	18.06	18.69	19.69	21.31	15	93.2
13-5-2021	10-2-0	17.44	18.25	18.69	19.62	21.25	15.3	92.3
13-5-2021	10-17-0	17.94	18.5	18.75	19.62	21.19	15.7	91.8
13-5-2021	10-32-0	19.12	19	18.81	19.56	21.19	16.1	90.4
13-5-2021	10-47-0	19	19.31	18.94	19.5	21.12	17	91
13-5-2021	11-2-0	18.87	19.37	19.06	19.5	21.06	17.1	88.1
13-5-2021	11-17-0	19.44	19.5	19.19	19.5	21.06	17.2	85.7
13-5-2021	11-32-0	19.31	19.69	19.25	19.5	21	17.7	86.8

13-5-2021	11-47-0	19.25	19.69	19.31	19.44	21	17.7	82.7
13-5-2021	12-2-0	18.81	19.62	19.37	19.44	20.94	17.5	87.8
13-5-2021	12-17-0	18.81	19.5	19.44	19.44	20.94	17.1	85.3
13-5-2021	12-32-0	18.75	19.5	19.44	19.44	20.87	17.1	87
13-5-2021	12-47-0	18.31	19.37	19.44	19.5	20.87	17.1	86.8
13-5-2021	13-2-0	18.12	19.19	19.44	19.44	20.81	16.7	86.7
13-5-2021	13-17-0	17.75	19.06	19.37	19.5	20.81	16.4	90.8
13-5-2021	13-32-0	17.62	18.87	19.31	19.5	20.81	16.1	92.8
13-5-2021	13-47-0	17.31	18.75	19.31	19.44	20.81	15.9	92.7
13-5-2021	14-2-0	16.81	18.5	19.25	19.44	20.75	15.7	92.5
13-5-2021	14-17-0	16.5	18.19	19.12	19.44	20.75	15.3	94.1
13-5-2021	14-32-0	16.19	17.94	19	19.44	20.69	14.8	94.3
13-5-2021	14-47-0	15.75	17.62	18.87	19.44	20.69	14.1	95.7
13-5-2021	15-2-0	15.56	17.44	18.75	19.44	20.69	13.8	96.3
13-5-2021	15-17-0	15.38	17.37	18.62	19.37	20.69	13.7	97
13-5-2021	15-32-0	15.06	17.12	18.5	19.31	20.69	13.6	96.8
13-5-2021	15-47-0	14.75	16.94	18.37	19.31	20.62	13.5	96.4
13-5-2021	16-2-0	14.69	16.81	18.25	19.25	20.62	13.4	96.6
13-5-2021	16-17-0	14.75	16.69	18.19	19.19	20.62	13.3	96.9
13-5-2021	16-32-0	14.44	16.5	18.06	19.12	20.62	13	96.6
13-5-2021	16-47-0	14.31	16.31	17.94	19.12	20.56	12.7	96.9
13-5-2021	17-2-0	14.19	16.25	17.81	19.06	20.56	12.5	97.4
13-5-2021	17-17-0	14	16.12	17.69	19	20.5	12.5	97.3
13-5-2021	17-32-0	13.88	16.06	17.62	18.94	20.5	12.5	97.4
13-5-2021	17-47-0	13.69	15.94	17.56	18.87	20.56	12.5	97
13-5-2021	18-2-0	13.63	15.81	17.44	18.81	20.5	12.4	96.5
13-5-2021	18-17-0	13.56	15.69	17.31	18.75	20.44	12.3	96.8
13-5-2021	18-32-0	13.44	15.56	17.25	18.69	20.37	12.2	97.1
13-5-2021	18-47-0	13.38	15.44	17.12	18.69	20.37	12.1	97.1
13-5-2021	19-2-0	13.38	15.38	17.06	18.62	20.31	12	97.2
13-5-2021	19-17-0	13.31	15.31	17	18.56	20.31	11.9	97.1
13-5-2021	19-32-0	13.38	15.25	16.87	18.5	20.31	11.9	97.3
13-5-2021	19-47-0	13.19	15.19	16.81	18.44	20.19	11.9	97.4
13-5-2021	20-2-0	13	15.06	16.75	18.37	20.19	11.9	97.4
13-5-2021	20-17-0	13.06	15.06	16.69	18.31	20.19	11.8	97.5
13-5-2021	20-32-0	12.75	14.94	16.62	18.25	20.12	11.7	97.8
13-5-2021	20-47-0	12.81	14.88	16.56	18.19	20	11.7	97.4
13-5-2021	21-2-0	12.56	14.81	16.44	18.12	20	11.6	97.5
13-5-2021	21-17-0	12.63	14.69	16.37	18.06	20	11.6	97
13-5-2021	21-32-0	12.56	14.63	16.31	18	19.94	11.5	97.4
13-5-2021	21-47-0	12.56	14.56	16.25	17.94	19.94	11.5	97.4
13-5-2021	22-2-0	12.38	14.5	16.19	17.87	19.94	11.4	97.1
13-5-2021	22-17-0	12.5	14.44	16.06	17.81	19.87	11.4	97.3
13-5-2021	22-32-0	12.31	14.31	16	17.75	19.81	11.3	97.5
13-5-2021	22-47-0	12.38	14.25	15.94	17.69	19.81	11.3	97.2
13-5-2021	23-2-0	12.31	14.19	15.88	17.62	19.69	11.3	97.4
13-5-2021	23-17-0	12.25	14.13	15.81	17.56	19.69	11.2	96.9
13-5-2021	23-32-0	12.25	14.06	15.75	17.5	19.62	11.1	97.1
13-5-2021	23-47-0	12.19	14	15.69	17.5	19.62	11.1	97.3
14-5-2021	0-2-0	12.19	14	15.63	17.44	19.62	11	97.1

14-5-2021	0-17-0	12.13	13.94	15.56	17.37	19.5	11	97.2
14-5-2021	0-32-0	12.06	13.88	15.5	17.31	19.5	11	96.7
14-5-2021	0-47-0	12	13.81	15.44	17.25	19.44	10.9	96.8
14-5-2021	1-2-0	12	13.69	15.38	17.19	19.37	10.8	96.8
14-5-2021	1-17-0	12	13.69	15.31	17.12	19.31	10.7	96.7
14-5-2021	1-32-0	11.94	13.63	15.25	17.06	19.31	10.7	97
14-5-2021	1-47-0	12	13.56	15.19	17.06	19.25	10.6	96.8
14-5-2021	2-2-0	12	13.56	15.13	17	19.19	10.6	96.9
14-5-2021	2-17-0	12.06	13.56	15.06	16.94	19.19	10.6	96.9
14-5-2021	2-32-0	12.06	13.56	15	16.87	19.12	10.5	96.9
14-5-2021	2-47-0	11.94	13.56	15	16.81	19.06	10.5	96.7
14-5-2021	3-2-0	11.94	13.56	14.94	16.75	19.06	10.5	96.7
14-5-2021	3-17-0	11.94	13.5	14.94	16.69	19	10.4	96.6
14-5-2021	3-32-0	11.88	13.5	14.88	16.69	19	10.3	96.9
14-5-2021	3-47-0	11.81	13.5	14.88	16.62	18.87	10.1	96.9
14-5-2021	4-2-0	11.69	13.38	14.81	16.56	18.87	10.1	97.2
14-5-2021	4-17-0	11.5	13.31	14.75	16.5	18.81	10	97.6
14-5-2021	4-32-0	11.31	13.19	14.75	16.5	18.81	10	97.6
14-5-2021	4-47-0	11.25	13.06	14.63	16.44	18.75	9.9	97.5
14-5-2021	5-2-0	11.13	13	14.63	16.37	18.69	9.9	97.8
14-5-2021	5-17-0	11.06	12.94	14.56	16.31	18.69	9.8	97.4
14-5-2021	5-32-0	11.06	12.88	14.44	16.25	18.62	9.8	97.6
14-5-2021	5-47-0	11	12.88	14.44	16.25	18.56	9.8	97.4
14-5-2021	6-2-0	11.06	12.81	14.38	16.19	18.56	9.8	97.3
14-5-2021	6-17-0	10.94	12.75	14.31	16.12	18.5	9.7	96.7
14-5-2021	6-32-0	10.94	12.75	14.25	16.12	18.44	9.8	97
14-5-2021	6-47-0	11	12.69	14.19	16.06	18.44	9.8	97.2
14-5-2021	7-2-0	10.94	12.69	14.19	16	18.44	9.8	97.1
14-5-2021	7-17-0	10.94	12.63	14.13	15.94	18.37	9.8	96.8
14-5-2021	7-32-0	10.94	12.63	14.06	15.94	18.31	9.9	97.1
14-5-2021	7-47-0	11	12.63	14.06	15.88	18.31	9.9	96.7
14-5-2021	8-2-0	10.94	12.56	14	15.81	18.19	10	96.9
14-5-2021	8-17-0	11.06	12.63	14	15.75	18.19	10	97.6
14-5-2021	8-32-0	11.13	12.63	13.94	15.75	18.19	10.1	97.7
14-5-2021	8-47-0	11.19	12.69	13.94	15.69	18.12	10.1	98
14-5-2021	9-2-0	11.19	12.75	13.94	15.63	18.12	10.2	97.8
14-5-2021	9-17-0	11.31	12.75	13.94	15.56	18.06	10.4	97.2
14-5-2021	9-32-0	11.31	12.81	13.94	15.56	18.06	10.6	97.1
14-5-2021	9-47-0	11.31	12.81	13.94	15.5	17.94	10.7	97.1
14-5-2021	10-2-0	11.38	12.88	13.94	15.5	17.94	10.8	97.6
14-5-2021	10-17-0	11.5	12.94	13.94	15.44	17.94	10.9	97.1
14-5-2021	10-32-0	11.88	13.06	13.94	15.44	17.87	11.1	96.9
14-5-2021	10-47-0	11.81	13.19	13.94	15.38	17.81	11.3	96.6
14-5-2021	11-2-0	12.13	13.31	14	15.38	17.81	11.5	95.6
14-5-2021	11-17-0	12.25	13.44	14.06	15.31	17.75	11.6	95.9
14-5-2021	11-32-0	12.56	13.56	14.13	15.31	17.75	11.8	94.6
14-5-2021	11-47-0	12.63	13.69	14.13	15.31	17.75	12.2	94.3
14-5-2021	12-2-0	12.5	13.75	14.19	15.25	17.69	12.3	93.9
14-5-2021	12-17-0	12.63	13.75	14.25	15.25	17.62	12.2	94.3
14-5-2021	12-32-0	13	13.94	14.31	15.25	17.56	12.2	94.4

14-5-2021	12-47-0	14.25	14.38	14.38	15.25	17.56	12.5	95.1
14-5-2021	13-2-0	13.63	14.56	14.5	15.19	17.5	13.3	94
14-5-2021	13-17-0	13.81	14.56	14.56	15.25	17.5	13.2	93
14-5-2021	13-32-0	13.88	14.75	14.69	15.25	17.5	13.2	91.8
14-5-2021	13-47-0	13.31	14.56	14.75	15.25	17.5	13.4	92.4
28-6-2021	10-1-33	28.12	27.81	26	26.44	28.25	30.4	46.4
28-6-2021	10-1-44	28.06	27.81	26	26.44	28.25	29.9	47.3
28-6-2021	10-3-51	28.62	27.94	26.06	26.44	28.31	31.4	48.9
28-6-2021	10-4-13	28.37	27.94	26.06	26.44	28.25	31.4	49
28-6-2021	10-19-0	30.56	28.75	26.37	26.44	28.25	31.3	48.1
28-6-2021	10-34-0	30	29.31	26.69	26.44	28.25	28	55
28-6-2021	10-49-0	30	29.19	27.06	26.44	28.19	27.3	56.6
28-6-2021	11-4-0	30.62	29.37	27.25	26.44	28.12	26.8	58.4
28-6-2021	11-19-0	31.87	29.75	27.44	26.5	28.06	27.1	51.5
28-6-2021	11-34-0	31	30	27.69	26.5	28.06	27.6	53
28-6-2021	11-49-0	31.62	30	27.87	26.56	28.06	28	53.6
28-6-2021	12-4-0	32	30.44	28.06	26.62	28	28.1	57.6
28-6-2021	12-19-0	31.5	30.44	28.19	26.69	28.06	28.7	54
28-6-2021	12-34-0	31.37	30.31	28.37	26.75	28	27.9	51
28-6-2021	12-49-0	31.5	30.37	28.5	26.81	28	27.9	51.8
28-6-2021	13-4-0	32.56	30.62	28.62	26.87	28	28	53.3
28-6-2021	13-19-0	36.06	31.69	28.75	26.94	28	28.5	51.6
28-6-2021	13-34-0	38.25	32.88	29	27	28	30.4	46.2
28-6-2021	13-49-0	39.31	33.75	29.37	27.06	28.06	31.1	43.8
28-6-2021	14-4-0	40.13	34.25	29.75	27.12	28	31.6	39.9
28-6-2021	14-19-0	40.5	34.63	30.19	27.25	28.06	32.1	38.6
28-6-2021	14-34-0	40.44	34.94	30.62	27.37	28.06	32.1	40.6
28-6-2021	14-49-0	40.25	35.19	31.06	27.5	28.06	33	40.9
28-6-2021	15-4-0	39.19	35.38	31.44	27.62	28.12	32.7	38.1
28-6-2021	15-19-0	38.69	35.5	31.81	27.75	28.12	32.5	40.9
28-6-2021	15-34-0	38.31	35.56	32.13	27.94	28.12	33.1	39
28-6-2021	15-49-0	37.69	35.63	32.44	28.06	28.19	32.9	39.4
28-6-2021	16-4-0	37.06	35.56	32.75	28.25	28.25	33.2	38.4
28-6-2021	16-19-0	36.63	35.56	33	28.44	28.31	32.4	40.4
28-6-2021	16-34-0	35.94	35.5	33.19	28.62	28.37	32.2	41.9
28-6-2021	16-49-0	35.25	35.25	33.31	28.75	28.44	32.2	39.5
28-6-2021	17-4-0	34.94	35	33.31	28.94	28.5	30.6	48.6
28-6-2021	17-19-0	34.56	34.69	33.31	29.12	28.56	30.7	47.3
28-6-2021	17-34-0	34.06	34.44	33.25	29.25	28.62	30.8	42.7
28-6-2021	17-49-0	33.75	34.19	33.19	29.37	28.69	30	44.9
28-6-2021	18-4-0	33.56	33.94	33.13	29.5	28.81	29.7	47.5
28-6-2021	18-19-0	33.31	33.75	33	29.62	28.94	30	45.9
28-6-2021	18-34-0	32.88	33.5	32.88	29.75	29	29.9	51.5
28-6-2021	18-49-0	32.63	33.25	32.81	29.87	29.12	28.9	55.6
28-6-2021	19-4-0	32.25	33	32.69	29.94	29.19	29	52.3
28-6-2021	19-19-0	31.94	32.81	32.56	30	29.25	28.4	58.3
28-6-2021	19-34-0	31.56	32.5	32.44	30.06	29.31	27.6	61
28-6-2021	19-49-0	31.19	32.25	32.31	30.12	29.37	27.1	63.4
28-6-2021	20-4-0	30.69	31.94	32.19	30.12	29.5	26.6	63.8
28-6-2021	20-19-0	30.31	31.69	32.06	30.19	29.5	25.9	66.5

28-6-2021	20-34-0	29.94	31.37	31.87	30.19	29.56	25.3	69.5
28-6-2021	20-49-0	29.5	31.06	31.75	30.25	29.69	24.8	71.2
28-6-2021	21-4-0	29.19	30.75	31.56	30.25	29.69	24	72
28-6-2021	21-19-0	28.81	30.5	31.44	30.25	29.75	23.4	76.7
28-6-2021	21-34-0	28.5	30.25	31.25	30.25	29.81	23	76.6
28-6-2021	21-49-0	28.25	30	31.06	30.25	29.94	22.4	80.5
28-6-2021	22-4-0	27.94	29.75	30.94	30.25	29.87	22.2	82
28-6-2021	22-19-0	27.56	29.5	30.75	30.19	29.94	21.9	81.1
28-6-2021	22-34-0	27.37	29.25	30.56	30.19	30	21.7	80.1
28-6-2021	22-49-0	27.12	29.06	30.44	30.12	30	21.2	83.4
28-6-2021	23-4-0	26.87	28.81	30.25	30.12	30.06	20.9	82.8
28-6-2021	23-19-0	26.62	28.62	30.12	30.06	30.06	20.5	83.4
28-6-2021	23-34-0	26.37	28.44	29.94	30.06	30.06	20.2	83.7
28-6-2021	23-49-0	26.12	28.25	29.81	29.94	30.06	19.9	83.4
29-6-2021	0-4-0	25.94	28.06	29.69	29.94	30.12	19.6	87.4
29-6-2021	0-19-0	25.69	27.87	29.5	29.87	30.12	19.4	87.8
29-6-2021	0-34-0	25.44	27.62	29.37	29.81	30.06	19.2	89.3
29-6-2021	0-49-0	25.31	27.5	29.19	29.75	30.12	19	90.1
29-6-2021	1-4-0	25.06	27.31	29.06	29.69	30.12	18.9	89.8
29-6-2021	1-19-0	24.94	27.12	28.94	29.62	30.12	18.7	90.2
29-6-2021	1-34-0	24.75	27	28.81	29.56	30.12	18.6	91
29-6-2021	1-49-0	24.62	26.81	28.69	29.5	30.12	18.6	90.7
29-6-2021	2-4-0	24.5	26.69	28.5	29.44	30.06	18.5	91.2
29-6-2021	2-19-0	24.31	26.56	28.37	29.37	30.06	18.4	91.4
29-6-2021	2-34-0	24.19	26.37	28.25	29.25	30.06	18.3	91.6
29-6-2021	2-49-0	24.06	26.25	28.12	29.19	30.06	18.2	91.7
29-6-2021	3-4-0	23.94	26.19	28	29.12	30.06	18.1	91.7
29-6-2021	3-19-0	23.81	26.06	27.87	29.06	30	18	91.9
29-6-2021	3-34-0	23.62	25.87	27.81	29	30	18	91.6
29-6-2021	3-49-0	23.5	25.75	27.69	28.94	29.94	17.7	91.8
29-6-2021	4-4-0	23.44	25.69	27.56	28.81	29.87	17.5	91.8
29-6-2021	4-19-0	23.31	25.56	27.44	28.75	29.87	17.5	92.9
29-6-2021	4-34-0	23.19	25.44	27.31	28.69	29.81	17.5	92.4
29-6-2021	4-49-0	23.06	25.31	27.25	28.62	29.81	17.4	92.6
29-6-2021	5-4-0	23.06	25.19	27.12	28.5	29.81	17.3	92.7
29-6-2021	5-19-0	23	25.12	27	28.44	29.81	17.3	92.6
29-6-2021	5-34-0	22.94	25.06	26.94	28.37	29.75	17.4	92.3
29-6-2021	5-49-0	23.12	25.06	26.81	28.31	29.69	17.5	92.1
29-6-2021	6-4-0	23.25	25.06	26.69	28.25	29.62	18	92.1
29-6-2021	6-19-0	23.12	25.06	26.69	28.12	29.56	18.7	90.7
29-6-2021	6-34-0	23.19	25.06	26.62	28.06	29.56	19.5	85.3
29-6-2021	6-49-0	23.19	25.06	26.56	28	29.5	19.7	85.9
29-6-2021	7-4-0	23.12	25	26.5	27.94	29.5	19.7	84
29-6-2021	7-19-0	23.06	25	26.44	27.87	29.44	19.6	86.5
29-6-2021	7-34-0	22.25	24.75	26.37	27.81	29.37	19.8	91.5
29-6-2021	7-49-0	22	24.37	26.31	27.75	29.37	19.2	94.5
29-6-2021	8-4-0	21.62	24.06	26.19	27.69	29.31	18.8	94.7
29-6-2021	8-19-0	21.06	23.87	26	27.56	29.31	18.5	95
29-6-2021	8-34-0	20.81	23.56	25.87	27.5	29.25	18.8	95.8
29-6-2021	8-49-0	20.69	23.25	25.69	27.5	29.19	18.4	95.9

29-6-2021	9-4-0	21	23.25	25.5	27.37	29.12	18.2	96.7
29-6-2021	9-19-0	21.25	23.31	25.37	27.31	29.12	18.7	96.8
29-6-2021	9-34-0	21.75	23.5	25.31	27.25	29.06	19.1	97.2
29-6-2021	9-49-0	22.69	23.75	25.25	27.19	29.06	19.6	96.6
29-6-2021	10-4-0	24.44	24.56	25.25	27.06	28.94	20.1	95.5
29-6-2021	10-19-0	24.56	25.31	25.44	27	28.94	21.5	91.2
29-6-2021	10-34-0	24.31	25.37	25.69	26.94	28.87	22	93.2
29-6-2021	10-49-0	24.37	25.44	25.81	26.87	28.81	22.4	90.1
29-6-2021	11-4-0	25.87	26.06	25.87	26.81	28.81	22.6	90.1
29-6-2021	11-19-0	27.56	26.5	26.06	26.81	28.75	23.8	87.2
29-6-2021	11-34-0	28.62	27.5	26.25	26.75	28.69	24.4	81.7
29-6-2021	11-49-0	29.81	28	26.5	26.75	28.62	25.4	75.4
29-6-2021	12-4-0	31.5	29.5	26.81	26.69	28.62	25.4	77.3
29-6-2021	12-19-0	33.56	31.06	27.25	26.75	28.56	26.6	67.4
29-6-2021	12-34-0	35	32.19	27.69	26.75	28.5	27.7	60.3
29-6-2021	12-49-0	34.38	32.44	28.19	26.75	28.5	28.1	60.8
29-6-2021	13-4-0	36.81	33.44	28.62	26.81	28.5	27.9	63.6
29-6-2021	13-19-0	37.81	34.31	29.06	26.87	28.44	29.2	61.7
29-6-2021	13-34-0	38	34.69	29.56	27	28.44	29.5	61.7
29-6-2021	13-49-0	39	35.19	30	27.06	28.44	29.2	57.4
29-6-2021	14-4-0	39.44	35.63	30.37	27.19	28.37	29.9	57.5
29-6-2021	14-19-0	39.5	35.94	30.81	27.31	28.37	30.2	54.3
29-6-2021	14-34-0	39.19	35.94	31.19	27.44	28.44	30.1	53.8
29-6-2021	14-49-0	39.25	36.06	31.56	27.56	28.37	29.8	57.4
29-6-2021	15-4-0	38.44	36.19	31.87	27.69	28.37	30.7	55.2
29-6-2021	15-19-0	38	36.06	32.13	27.87	28.44	31.1	53.3
29-6-2021	15-34-45	38.88	36.19	32.44	28.06	28.44	31.9	53.6
29-6-2021	15-34-54	38.94	36.19	32.44	28.06	28.37	31.8	54.8
29-6-2021	15-49-0	38.88	36.81	32.63	28.19	28.44	31.9	53.7
29-6-2021	16-4-0	37.88	36.88	32.88	28.31	28.5	32.8	47.8
29-6-2021	16-19-0	36.56	36.38	33.13	28.5	28.56	32.4	50
29-6-2021	16-34-0	36	36	33.19	28.62	28.62	31.3	51.7
29-6-2021	16-49-0	35.81	35.88	33.19	28.81	28.62	31.6	53.6
29-6-2021	17-4-0	35.94	35.88	33.13	28.94	28.69	32	49.7
29-6-2021	17-19-0	35.5	35.63	33.13	29.12	28.75	32.3	52.1
29-6-2021	17-34-0	35.25	35.31	33.13	29.19	28.87	31.4	57.6
29-6-2021	17-49-0	34.94	35	33.06	29.31	28.94	31.1	59.3
29-6-2021	18-4-0	34.38	34.69	33.06	29.44	29	30.9	56.9
29-6-2021	18-19-0	34	34.31	33	29.56	29.06	30.6	60.1
29-6-2021	18-34-0	33.5	34	32.94	29.62	29.12	30.6	59.3
29-6-2021	18-49-0	33.06	33.69	32.81	29.75	29.25	30.5	60.5
29-6-2021	19-4-0	32.63	33.38	32.75	29.81	29.31	30	61.4
29-6-2021	19-19-0	32.25	33.13	32.63	29.87	29.37	29.5	64.4
29-6-2021	19-34-0	31.75	32.81	32.5	29.94	29.44	29.1	64.9
29-6-2021	19-49-0	31.37	32.5	32.38	30	29.5	28.4	67.6
29-6-2021	20-4-0	30.87	32.19	32.19	30.06	29.62	27.6	69.5
29-6-2021	20-19-0	30.44	31.81	32.06	30.12	29.62	26.9	75.7
29-6-2021	20-34-0	30	31.5	31.94	30.19	29.69	26.2	77.8
29-6-2021	20-49-0	29.62	31.25	31.75	30.19	29.75	25.7	79
29-6-2021	21-4-0	29.25	30.94	31.56	30.19	29.81	25.8	76.7

29-6-2021	21-19-0	29	30.69	31.44	30.19	29.81	24.8	82.3
29-6-2021	21-34-0	28.62	30.44	31.25	30.19	29.94	24.3	85.1
29-6-2021	21-49-0	28.37	30.12	31.12	30.19	30	23.7	86.6
29-6-2021	22-4-0	28.12	29.94	30.94	30.19	30	23.3	88.1
29-6-2021	22-19-0	27.94	29.75	30.75	30.19	30.06	23.1	89.3
29-6-2021	22-34-0	27.75	29.62	30.62	30.19	30.06	23.7	83.6
29-6-2021	22-49-0	26.5	29.25	30.5	30.12	30.06	23.7	83.3
29-6-2021	23-4-0	22.69	27.69	30.25	30.12	30.06	22.3	68.9
29-6-2021	23-19-0	22.44	26.69	29.87	30.06	30.12	18.4	94.8
29-6-2021	23-34-0	21.94	26	29.37	30	30.19	17.6	95.9
29-6-2021	23-49-0	21.56	25.56	28.94	29.94	30.19	17.5	96.6
30-6-2021	0-4-0	21.56	25.19	28.56	29.94	30.19	17.4	97.4
30-6-2021	0-19-0	21.69	24.94	28.19	29.81	30.19	17.4	98.1
30-6-2021	0-34-0	21.75	24.81	27.94	29.69	30.12	17.4	97.7
30-6-2021	0-49-0	21.62	24.62	27.69	29.56	30.19	17.2	98.4
30-6-2021	1-4-0	21.5	24.5	27.44	29.5	30.19	17.2	98.1
30-6-2021	1-19-0	21.44	24.31	27.25	29.37	30.19	17.2	98.2
30-6-2021	1-34-0	20.69	24.19	27.06	29.25	30.19	17.3	98.8
30-6-2021	1-49-0	20.69	24	26.87	29.12	30.12	17.5	97.7
30-6-2021	2-4-0	20.69	23.81	26.69	29	30.06	17.6	98.2
30-6-2021	2-19-0	20.5	23.62	26.5	28.87	30	17.2	98.1
30-6-2021	2-34-0	20.5	23.5	26.37	28.75	30	17.3	98
30-6-2021	2-49-0	20.44	23.37	26.19	28.62	30	17.3	97.8
30-6-2021	3-4-0	20.31	23.31	26.06	28.5	29.94	17.3	98
30-6-2021	3-19-0	19.94	23.19	25.94	28.37	29.87	17.4	97.3
30-6-2021	3-34-0	19.75	23.06	25.81	28.25	29.81	17.4	96.9
30-6-2021	3-49-0	19.94	22.94	25.69	28.12	29.75	17.3	97.4
30-6-2021	4-4-0	19.87	22.81	25.5	28.06	29.69	17.3	97.6
30-6-2021	4-19-0	19.62	22.69	25.37	27.94	29.62	17.2	97
30-6-2021	5-34-0	18.69	21.75	24.69	27.44	29.37	16.5	95.6
30-6-2021	5-49-0	18.69	21.62	24.56	27.31	29.31	16.4	95.5
30-6-2021	6-4-0	18.81	21.56	24.37	27.19	29.31	16.4	94.9
30-6-2021	6-19-0	18.5	21.44	24.25	27.06	29.19	16.5	95.1
30-6-2021	6-34-0	18.56	21.37	24.12	27	29.19	16.4	93.6

Annex D- Data of temperatures, measured by Arduino thermometer at semi-rigid pavement

		Sensor type DS18B20					Sensor type DHT22	
Date	Time	Surface temperature	Mid depth asphalt pavement temperature	T3	T4	Subgrade temperture	Air temperature	Humidity
29-04-2021	0-0-2	25.81	24.62	23	17.19	14.56	28.8	29.8
29-04-2021	0-0-15	25.5	24.62	23.06	17.19	14.5	28.1	30.7
29-04-2021	0-0-20	25.37	24.62	23.06	17.12	14.56	27.5	30.3
29-04-2021	0-15-0	25.75	24.62	23.31	17.25	14.5	27.5	30.7
29-04-2021	0-30-0	26.19	24.37	23.25	17.37	14.44	25.9	34.3
29-04-2021	0-45-0	24.5	24.06	23.19	17.56	14.44	24.4	35.7
29-04-2021	1-0-0	23.31	23.5	22.94	17.69	14.44	23.2	37.3
29-04-2021	1-15-0	22.37	22.87	22.56	17.87	14.5	22.1	42.8
29-04-2021	1-30-0	22.31	22.44	22.25	17.94	14.5	20.8	50.9
29-04-2021	1-45-0	22	22.25	22	18.06	14.56	20.9	47.3
29-04-2021	2-0-0	21.94	22.06	21.87	18.12	14.63	21.2	40.9
29-04-2021	2-15-0	21.69	21.87	21.69	18.12	14.69	21.4	39.5
29-04-2021	2-30-0	21.44	21.69	21.56	18.19	14.69	21.4	39
29-04-2021	2-45-0	21.25	21.5	21.37	18.19	14.75	21.2	38.6
29-04-2021	3-0-0	21.06	21.31	21.25	18.19	14.81	21.1	39.4
29-04-2021	3-15-0	20.87	21.19	21.12	18.19	14.81	20.8	39.5
29-04-2021	3-30-0	20.62	21	21	18.19	14.88	20.7	40
29-04-2021	3-45-0	20.44	20.81	20.87	18.19	14.94	20.4	37.4
29-04-2021	4-0-0	20.25	20.69	20.69	18.19	14.94	20.1	37.8
29-04-2021	4-15-0	20.06	20.5	20.56	18.19	15	19.9	38.5
29-04-2021	4-30-0	19.87	20.37	20.44	18.12	15.06	19.6	39.7
29-04-2021	4-45-0	19.69	20.19	20.31	18.12	15.06	19.5	39.1
29-04-2021	5-0-0	19.56	20.06	20.19	18.06	15.06	19.2	41.7
29-04-2021	5-15-0	19.37	19.94	20.06	18.06	15.13	18.9	40.7
29-04-2021	5-30-0	19.19	19.81	19.94	18	15.13	18.8	41.4
29-04-2021	5-45-0	19.06	19.69	19.81	17.94	15.19	18.7	38.7
29-04-2021	6-0-0	18.75	19.5	19.69	17.94	15.19	18.4	38.4
29-04-2021	6-15-0	18.37	19.31	19.56	17.87	15.19	18	40.5
29-04-2021	6-30-0	18.12	19.12	19.44	17.81	15.25	17.3	45.1
29-04-2021	6-45-0	18	18.94	19.25	17.81	15.25	16.6	48
29-04-2021	7-0-0	17.87	18.75	19.12	17.75	15.25	16.2	50.5
29-04-2021	7-15-0	17.62	18.62	19	17.69	15.25	15.9	57
29-04-2021	7-30-0	17.5	18.5	18.81	17.62	15.25	15.6	53.7
29-04-2021	7-45-0	17.44	18.31	18.75	17.56	15.31	15.4	56.2
29-04-2021	8-0-0	17.31	18.19	18.56	17.5	15.31	15.2	58.6
29-04-2021	8-15-0	17.19	18.12	18.5	17.44	15.31	15.1	57.6
29-04-2021	8-30-0	17	17.94	18.37	17.37	15.31	14.7	66.1
29-04-2021	8-45-0	16.87	17.81	18.25	17.31	15.31	14.3	65
29-04-2021	9-0-0	16.75	17.75	18.12	17.25	15.31	14.2	66.6
29-04-2021	9-15-0	16.62	17.62	18	17.19	15.31	13.9	66.5

29-04-2021	9-30-0	16.5	17.5	17.94	17.06	15.31	14.1	63.4
29-04-2021	9-45-0	16.44	17.37	17.81	17	15.31	14	61.2
29-04-2021	10-0-0	16.31	17.25	17.69	16.94	15.31	14.2	60.6
29-04-2021	10-15-0	16.25	17.19	17.56	16.87	15.31	14.1	60.5
29-04-2021	10-30-0	16.06	17.06	17.5	16.81	15.31	14	59.8
29-04-2021	10-45-0	16	16.94	17.37	16.75	15.31	14.1	59.2
29-04-2021	11-0-0	15.81	16.81	17.25	16.69	15.31	14	59
29-04-2021	11-15-0	15.56	16.69	17.19	16.62	15.31	13.9	59.2
29-04-2021	11-30-0	15.38	16.56	17.06	16.56	15.25	13.6	59.9
29-04-2021	11-45-0	15.19	16.44	16.94	16.44	15.25	13.4	60.9
29-04-2021	12-0-0	15.06	16.31	16.81	16.37	15.25	12.8	63.4
29-04-2021	12-15-0	15	16.19	16.69	16.31	15.25	12.2	66.1
29-04-2021	12-30-0	15	16.06	16.56	16.25	15.25	12.2	65.1
29-04-2021	12-45-0	14.88	16	16.5	16.19	15.25	12.4	64.2
29-04-2021	13-0-0	14.81	15.88	16.37	16.12	15.19	12.6	62.7
29-04-2021	13-15-0	14.69	15.81	16.31	16.06	15.19	12.6	63.1
29-04-2021	13-30-0	14.56	15.69	16.19	15.94	15.19	12.6	62.3
29-04-2021	13-45-0	14.38	15.56	16.06	15.88	15.19	12.4	63
29-04-2021	14-0-0	14.25	15.44	16	15.81	15.13	12.2	63.6
29-04-2021	14-15-0	14.19	15.38	15.88	15.75	15.13	11.7	66.2
29-04-2021	14-30-0	14.06	15.25	15.81	15.69	15.13	11.3	68.2
29-04-2021	14-45-0	14	15.13	15.69	15.63	15.06	11	69.3
29-04-2021	15-0-0	13.94	15.06	15.63	15.56	15.06	10.9	70.9
29-04-2021	15-15-0	13.94	15	15.5	15.5	15.06	10.7	72.9
29-04-2021	15-30-0	13.88	14.94	15.44	15.38	15	11.2	69
29-04-2021	15-45-0	13.81	14.88	15.38	15.31	15	11.5	67.1
29-04-2021	16-0-0	13.69	14.75	15.31	15.25	15	11.6	66.7
29-04-2021	16-15-0	13.69	14.69	15.19	15.19	14.94	11.5	67.5
29-04-2021	16-30-0	13.69	14.69	15.13	15.13	14.94	11.6	67.3
29-04-2021	16-45-0	13.5	14.56	15.06	15.06	14.88	11.9	67.4
29-04-2021	17-0-0	13.56	14.5	15	15	14.88	11.6	67.4
29-04-2021	17-15-0	13.5	14.5	14.94	14.94	14.88	12.1	64.2
29-04-2021	17-30-0	13.94	14.56	14.94	14.88	14.81	12	65.1
29-04-2021	17-45-0	14.13	14.63	14.94	14.81	14.81	13.5	58.9
29-04-2021	18-0-0	14.31	14.69	14.94	14.75	14.81	14	55.3
29-04-2021	18-15-0	14.5	14.81	15	14.69	14.75	14.5	51.6
29-04-2021	18-30-0	14.56	14.81	15	14.69	14.75	14.9	49.7
29-04-2021	18-45-0	14.81	14.88	15	14.63	14.69	15	48.1
29-04-2021	19-0-0	15.19	15	15.06	14.56	14.69	15.7	44
29-04-2021	19-15-0	17.69	15.19	15.13	14.56	14.69	16.6	42.2
29-04-2021	19-30-0	19.25	15.38	15.25	14.5	14.69	18.3	39.7
29-04-2021	19-45-0	20.69	15.63	15.31	14.5	14.63	19	37.6
29-04-2021	20-0-0	21.87	15.88	15.44	14.5	14.63	19.4	34.8
29-04-2021	20-15-0	22.87	16.25	15.56	14.44	14.56	20.4	34.1
29-04-2021	20-30-0	23.06	16.75	15.81	14.44	14.56	20.6	31.9
29-04-2021	20-45-0	24.06	17.19	16.06	14.44	14.56	20.9	31
29-04-2021	21-0-0	25.31	17.75	16.37	14.5	14.56	21.2	32
29-04-2021	21-15-0	26.37	18.5	16.75	14.5	14.5	21.5	30.4
29-04-2021	21-30-0	27.25	19.37	17.31	14.56	14.5	22.7	28.8
29-04-2021	21-45-0	28	20.37	17.87	14.63	14.5	23.1	27.3

29-04-2021	22-0-0	28.94	21.44	18.56	14.75	14.5	23.4	27.4
29-04-2021	22-15-0	29.94	22.5	19.31	14.88	14.44	23.5	26.8
29-04-2021	22-30-0	30.69	23.44	20.06	15	14.44	24.1	27
29-04-2021	22-45-0	31.37	24.44	20.81	15.19	14.44	24.8	26.1
29-04-2021	23-0-0	32.38	25.31	21.62	15.31	14.44	25.4	26.2
29-04-2021	23-15-0	32.75	26	22.31	15.56	14.44	25.1	25.4
29-04-2021	23-30-0	32.69	26.62	22.94	15.75	14.5	25.7	25.1
29-04-2021	23-45-0	32.19	27.12	23.56	16	14.5	25.9	25.7
29-04-2021	0-0-0	32.63	27.31	23.94	16.25	14.5	26.4	25.2
29-04-2021	0-15-0	32.5	27.62	24.31	16.5	14.56	26.3	26.3
29-04-2021	0-29-46	32	27.94	24.75	16.75	14.56	24.9	27.9
29-04-2021	0-29-57	31.94	27.94	24.75	16.75	14.56	24.8	28.9
29-04-2021	0-44-0	33	28.06	25	17	14.63	24.6	29
29-04-2021	0-59-0	32.5	28.31	25.31	17.25	14.63	26.4	26.4
29-04-2021	1-14-0	32.44	28.44	25.62	17.5	14.69	26.3	26.2
29-04-2021	1-29-0	31.62	28.5	25.81	17.75	14.75	26	27.3
29-04-2021	1-44-0	29.12	28	25.87	18	14.75	25.3	27.6
29-04-2021	1-59-0	27.25	26.94	25.5	18.25	14.81	23.5	29.1
29-04-2021	2-14-0	26.06	26.06	25	18.44	14.88	21.8	31.7
29-04-2021	2-16-45	25.75	25.94	24.94	18.5	14.88	21	31.1
30-4-2021	17-31-37	25.56	25.75	24.81	18.5	14.94	21	32.2
30-4-2021	17-31-42	25.56	25.75	24.81	18.56	14.94	19.9	34.1
30-4-2021	17-31-49	25.56	25.75	24.81	18.56	14.94	19.8	34.5
30-4-2021	17-32-25	25.5	25.75	24.81	18.56	14.94	19.6	34.1
30-4-2021	17-33-5	25.5	25.69	24.75	18.56	14.94	19.5	35.4
30-4-2021	17-48-0	24.56	25	24.31	18.75	15	19.6	35.5
30-4-2021	18-3-0	24	24.44	23.87	18.87	15.06	19.9	36.4
30-4-2021	18-18-0	23.5	23.94	23.5	18.94	15.13	19.6	35.8
30-4-2021	18-33-0	22.87	23.56	23.19	19	15.19	19.4	38.4
30-4-2021	18-48-0	22.44	23.12	22.87	19.06	15.25	19.1	36
30-4-2021	19-3-0	22	22.81	22.62	19.06	15.31	18.9	35.1
30-4-2021	19-18-0	21.62	22.44	22.37	19.12	15.38	18.5	37.7
30-4-2021	19-33-0	21.25	22.12	22.06	19.12	15.44	18.1	36.2
30-4-2021	19-48-0	20.75	21.81	21.87	19.06	15.5	17.7	38.2
30-4-2021	20-3-0	20.44	21.5	21.56	19.06	15.5	17.1	38.1
30-4-2021	20-18-0	20.12	21.19	21.37	19	15.56	16.6	38.7
30-4-2021	20-33-0	19.94	21	21.12	18.94	15.63	15.9	43.3
30-4-2021	20-48-0	19.81	20.75	20.94	18.94	15.63	15.3	44.9
30-4-2021	21-3-0	19.37	20.56	20.75	18.81	15.69	15.2	46.3
30-4-2021	21-18-0	18.87	20.25	20.5	18.81	15.75	15	42.5
30-4-2021	21-33-0	18.5	19.94	20.31	18.75	15.75	14.8	46.9
30-4-2021	21-48-0	18.12	19.69	20.06	18.62	15.81	14.3	48.4
30-4-2021	22-3-0	17.75	19.37	19.87	18.56	15.81	13.8	49.4
30-4-2021	22-18-0	17.37	19.12	19.62	18.5	15.81	13.3	51.3
30-4-2021	22-33-0	17.19	18.81	19.37	18.44	15.88	12.8	52
30-4-2021	22-48-0	17.12	18.62	19.19	18.31	15.88	12.5	53.4
30-4-2021	23-3-0	17	18.44	19	18.25	15.88	12.4	53.9
30-4-2021	23-18-0	16.94	18.31	18.81	18.12	15.88	12.4	54.5
30-4-2021	23-33-0	16.81	18.19	18.69	18.06	15.88	12.4	53.9
30-4-2021	23-48-0	16.69	18	18.5	17.94	15.88	12.4	54.5

1-5-2021	0-3-0	16.62	17.87	18.37	17.87	15.94	12.3	55
1-5-2021	0-18-0	16.44	17.75	18.25	17.75	15.94	12.2	56.2
1-5-2021	0-33-0	16.31	17.62	18.12	17.69	15.94	12.1	57.5
1-5-2021	0-48-0	16.19	17.5	17.94	17.56	15.94	12.2	58
1-5-2021	1-3-0	16	17.31	17.81	17.5	15.94	12.2	58.4
1-5-2021	1-18-0	15.88	17.19	17.69	17.37	15.88	12	58.7
1-5-2021	1-33-0	15.69	17.06	17.56	17.31	15.88	12	59.6
1-5-2021	1-48-0	15.38	16.87	17.44	17.19	15.88	12	59.2
1-5-2021	2-3-0	15	16.62	17.25	17.12	15.88	11.8	70.9
1-5-2021	2-18-0	14.81	16.31	17.06	17	15.88	11.3	68.3
1-5-2021	2-33-0	14.69	16.06	16.94	16.94	15.88	11.1	70
1-5-2021	2-48-0	14.38	15.88	16.75	16.87	15.88	10.9	71
1-5-2021	3-3-0	13.06	15.5	16.56	16.75	15.81	10.7	74.9
1-5-2021	3-18-0	12.69	15.13	16.31	16.62	15.81	10.5	76.3
1-5-2021	3-33-0	12.5	14.88	16	16.56	15.81	10	80.6
1-5-2021	3-48-0	12.31	14.69	15.81	16.44	15.75	9.8	84.1
1-5-2021	4-3-0	11.94	14.44	15.56	16.31	15.75	9.6	84.9
1-5-2021	4-18-0	11.69	14.19	15.31	16.25	15.75	9.5	85.7
1-5-2021	4-33-0	11.56	14	15.13	16.12	15.75	9.3	85.3
1-5-2021	4-48-0	11.5	13.81	14.94	16	15.69	9.1	85.5
1-5-2021	5-3-0	11.38	13.69	14.75	15.88	15.69	8.9	85.6
1-5-2021	5-18-0	11.38	13.5	14.56	15.75	15.63	8.8	87
1-5-2021	5-33-0	11.56	13.44	14.38	15.63	15.63	8.8	87.3
1-5-2021	5-48-0	11.56	13.38	14.31	15.5	15.56	8.9	85.7
1-5-2021	6-3-0	11.56	13.31	14.19	15.38	15.56	9	88
1-5-2021	6-18-0	11.69	13.31	14.13	15.25	15.5	9	89.7
1-5-2021	6-33-0	11.75	13.25	14.06	15.13	15.5	9.1	89.3
1-5-2021	6-48-0	11.69	13.19	14	15	15.44	9.3	90.2
1-5-2021	7-3-0	11.56	13.13	13.94	14.94	15.44	9.3	89.3
1-5-2021	7-18-0	11.63	13.06	13.81	14.81	15.38	9.3	89.4
1-5-2021	7-33-0	11.75	13.06	13.75	14.75	15.31	9.3	90.2
1-5-2021	7-48-0	11.69	13.06	13.69	14.63	15.31	9.4	89.8
1-5-2021	8-3-0	11.75	13	13.63	14.56	15.25	9.6	88.8
1-5-2021	8-18-0	11.75	13	13.63	14.44	15.25	9.7	88.4
1-5-2021	8-33-0	11.94	12.94	13.56	14.38	15.19	9.9	90
1-5-2021	8-48-0	12.25	13	13.5	14.31	15.13	10.1	88.2
1-5-2021	9-3-0	12.38	13.13	13.56	14.25	15.13	10.4	85.6
1-5-2021	9-18-0	12.44	13.13	13.56	14.13	15.06	10.8	84.7
1-5-2021	9-33-0	12.5	13.19	13.56	14.06	15.06	11	81.5
1-5-2021	9-48-0	12.63	13.19	13.56	14	15	11.1	79
1-5-2021	10-3-0	12.94	13.25	13.56	13.94	14.94	11.3	82.3
1-5-2021	10-18-0	13.06	13.31	13.56	13.94	14.94	11.7	79.6
1-5-2021	10-33-0	13.44	13.44	13.63	13.88	14.88	12.4	81.1
1-5-2021	10-48-0	13.75	13.56	13.69	13.81	14.88	13	72.8
1-5-2021	11-3-0	14.19	13.75	13.81	13.81	14.81	13.6	71.1
1-5-2021	11-18-0	14.69	14	13.94	13.75	14.81	14.6	66.7
1-5-2021	11-33-0	15.44	14.25	14.06	13.75	14.75	15.5	64
1-5-2021	11-48-0	15.94	14.56	14.25	13.69	14.75	16.7	56.4
1-5-2021	12-3-0	16.06	14.81	14.44	13.69	14.69	16.9	55.8
1-5-2021	12-18-0	16.12	15.06	14.63	13.75	14.69	16.8	55.4

1-5-2021	12-33-0	16.56	15.19	14.75	13.75	14.63	16.8	56.4
1-5-2021	12-48-0	18.19	15.75	15	13.75	14.63	17.4	53.1
1-5-2021	13-3-0	18.56	16.37	15.31	13.81	14.63	19.3	48.4
1-5-2021	13-18-0	18.75	16.69	15.63	13.81	14.56	19.4	48.4
1-5-2021	13-33-0	20.5	17.44	16	13.94	14.56	19.4	46.7
1-5-2021	13-48-0	21.37	18.12	16.5	13.94	14.56	20.3	47.1
1-5-2021	14-3-0	20.25	18.19	16.81	14.06	14.56	20.8	42.9
1-5-2021	14-18-0	20.12	18.19	17	14.13	14.5	20	44.5
1-5-2021	14-33-0	19.56	18.19	17.12	14.25	14.5	19.7	47
1-5-2021	14-48-0	19.69	18.25	17.19	14.38	14.5	19.3	48.8
1-5-2021	15-3-0	19	18.19	17.25	14.44	14.5	19.4	45.9
1-5-2021	15-18-0	18.75	18	17.25	14.56	14.5	19	50.1
1-5-2021	15-33-0	19.81	18	17.25	14.69	14.5	18.6	49.9
1-5-2021	15-48-0	19.75	18.25	17.37	14.75	14.5	19	50.2
1-5-2021	16-3-0	20.12	18.44	17.56	14.81	14.5	19.3	46.3
1-5-2021	16-18-0	20.06	18.62	17.69	14.94	14.5	19.6	49.2
1-5-2021	16-33-0	19.69	18.75	17.81	15	14.56	19.4	49.7
1-5-2021	16-48-0	19.19	18.56	17.87	15.06	14.56	19.5	45.4
1-5-2021	17-3-0	18.69	18.37	17.75	15.13	14.56	19	47.7
1-5-2021	17-18-0	18.5	18.19	17.69	15.19	14.63	18.4	50.2
1-5-2021	17-33-0	18.44	18.06	17.62	15.25	14.63	18.2	52.4
1-5-2021	17-48-0	18.5	18.06	17.62	15.31	14.63	18.1	50.3
1-5-2021	18-3-0	18.25	18	17.62	15.38	14.63	18.1	52.1
1-5-2021	18-18-0	18.12	17.94	17.56	15.44	14.69	18	52.6
1-5-2021	18-33-0	17.87	17.87	17.5	15.44	14.69	17.8	54.2
1-5-2021	18-48-0	17.5	17.69	17.44	15.5	14.69	17.4	55.4
1-5-2021	19-3-0	17.25	17.56	17.37	15.5	14.69	17	57.2
1-5-2021	19-18-0	17	17.37	17.25	15.56	14.75	16.5	57.8
1-5-2021	19-33-0	16.75	17.19	17.19	15.56	14.75	16.1	57.5
1-5-2021	19-48-0	16.44	17.06	17.06	15.56	14.75	15.7	60.1
1-5-2021	20-3-0	16.12	16.87	16.94	15.56	14.75	15.2	60.3
1-5-2021	20-18-0	16.06	16.69	16.81	15.56	14.81	14.8	62.8
1-5-2021	20-33-0	15.88	16.56	16.69	15.56	14.81	14.5	63.6
1-5-2021	20-48-0	15.75	16.44	16.62	15.56	14.81	14.3	63.6
1-5-2021	21-3-0	15.63	16.31	16.5	15.56	14.88	14	64.6
1-5-2021	21-18-0	15.5	16.19	16.44	15.5	14.88	13.9	65.7
1-5-2021	21-33-0	15.31	16.12	16.31	15.5	14.88	13.6	64.9
1-5-2021	21-48-0	15.19	16	16.25	15.5	14.88	13.4	64.9
1-5-2021	22-3-0	15.06	15.88	16.12	15.44	14.88	13.2	65.3
1-5-2021	22-18-0	15	15.75	16.06	15.44	14.88	13	67
1-5-2021	22-33-0	14.94	15.69	16	15.38	14.88	12.8	67.2
1-5-2021	22-48-0	14.88	15.63	15.88	15.38	14.88	12.8	67.3
1-5-2021	23-3-0	14.81	15.5	15.81	15.31	14.94	12.7	67.9
1-5-2021	23-18-0	14.81	15.5	15.75	15.25	14.88	12.7	68.5
1-5-2021	23-33-0	14.06	15.25	15.69	15.25	14.88	12.7	68.5
1-5-2021	23-48-0	13.69	14.94	15.56	15.19	14.88	12.4	83
2-5-2021	0-3-0	13.5	14.81	15.38	15.19	14.88	11.9	85.9
2-5-2021	0-18-0	13.31	14.69	15.25	15.13	14.88	11.6	87.9
2-5-2021	0-33-0	13.13	14.56	15.13	15.06	14.88	11.4	89.1
2-5-2021	0-48-0	13.06	14.38	15	15	14.88	11.3	88.8

2-5-2021	1-3-0	13.06	14.31	14.88	14.94	14.88	11.2	90.2
2-5-2021	1-18-0	13.06	14.25	14.81	14.94	14.88	11.1	90.4
2-5-2021	1-33-0	12.88	14.19	14.69	14.88	14.88	11.1	90.4
2-5-2021	1-48-0	12.81	14.06	14.63	14.81	14.88	11.2	90.5
2-5-2021	2-3-0	12.63	13.94	14.5	14.75	14.88	11.1	90.4
2-5-2021	2-18-0	12.31	13.69	14.44	14.69	14.88	11	91.1
2-5-2021	2-33-0	12.13	13.56	14.31	14.63	14.81	10.8	91.2
2-5-2021	2-48-0	11.94	13.44	14.19	14.56	14.81	10.6	91.5
2-5-2021	3-3-0	11.88	13.31	14.06	14.5	14.81	10.4	91.8
2-5-2021	3-18-0	11.75	13.25	13.94	14.44	14.81	10.2	91.6
2-5-2021	3-33-0	11.63	13.13	13.81	14.38	14.81	10.1	92.1
2-5-2021	3-48-0	11.56	13	13.69	14.31	14.75	10.1	92.2
2-5-2021	4-3-0	11.38	12.88	13.63	14.25	14.75	10.1	92
2-5-2021	4-18-0	11.25	12.75	13.5	14.19	14.75	10	91.9
2-5-2021	4-33-0	11.06	12.63	13.38	14.13	14.75	9.8	92
2-5-2021	4-48-0	11.13	12.56	13.31	14.06	14.69	9.7	92.5
2-5-2021	5-3-0	11	12.5	13.19	13.94	14.69	9.7	93
2-5-2021	5-18-0	11	12.38	13.13	13.88	14.69	9.6	93
2-5-2021	5-33-0	10.94	12.31	13.06	13.81	14.63	9.7	93.4
2-5-2021	5-48-0	10.88	12.13	12.94	13.75	14.63	9.8	93.3
2-5-2021	6-3-0	10.69	12.06	12.88	13.69	14.63	9.8	93.4
2-5-2021	6-18-0	10.38	11.94	12.75	13.63	14.63	9.7	93.4
2-5-2021	6-33-0	10.31	11.81	12.63	13.56	14.56	9.5	93.5
2-5-2021	6-48-0	10.38	11.69	12.5	13.5	14.56	9.3	93.6
2-5-2021	7-3-0	10.19	11.63	12.44	13.44	14.56	9.3	93.9
2-5-2021	7-18-0	10.25	11.5	12.31	13.31	14.5	9.1	93.5
2-5-2021	7-33-0	10.25	11.5	12.25	13.25	14.5	9.2	93.9
2-5-2021	7-48-0	10.31	11.44	12.19	13.19	14.5	9.2	93.8
2-5-2021	8-3-0	10.25	11.44	12.13	13.13	14.44	9.3	93.5
2-5-2021	8-18-0	10.31	11.38	12.13	13.06	14.44	9.3	93.4
2-5-2021	8-33-0	10.13	11.31	12.06	13	14.38	9.3	93.5
2-5-2021	8-48-0	10	11.25	12	12.94	14.38	9.2	92.6
2-5-2021	9-3-0	9.88	11.19	11.88	12.88	14.31	9	92.1
4-5-2021	17-19-22	16.5	15.38	14.69	12.13	11.88	18.4	34.9
4-5-2021	17-19-29	16.56	15.38	14.69	12.13	11.88	18.2	36.2
4-5-2021	17-34-0	16.44	15.38	14.75	12.19	11.88	18.2	37
4-5-2021	17-49-0	16.25	15.38	14.75	12.25	11.94	18.9	35.1
4-5-2021	18-4-0	16.25	15.38	14.81	12.31	11.94	18.6	35.5
4-5-2021	18-19-0	16.06	15.38	14.81	12.44	12	18.6	34.6
4-5-2021	18-34-0	15.94	15.31	14.81	12.44	12	18.2	36.6
4-5-2021	18-49-0	15.88	15.25	14.81	12.56	12.06	18	39.1
4-5-2021	19-4-0	15.69	15.25	14.81	12.56	12.13	17.9	37.4
4-5-2021	19-19-0	15.63	15.13	14.81	12.63	12.13	17.4	42.6
4-5-2021	19-34-0	15.5	15.13	14.75	12.69	12.13	17.4	39.5
4-5-2021	19-49-0	15.44	15.06	14.75	12.75	12.19	17	40.6
4-5-2021	20-4-0	15.31	15	14.75	12.75	12.19	16.9	41.9
4-5-2021	20-19-0	15.25	14.94	14.69	12.81	12.25	16.8	43.5
4-5-2021	20-34-0	15.13	14.94	14.69	12.88	12.25	16.6	44.7
4-5-2021	20-49-0	15.06	14.88	14.63	12.88	12.31	16.4	45.6
4-5-2021	21-4-0	14.94	14.81	14.63	12.88	12.31	16.1	47.5

4-5-2021	21-19-0	14.81	14.75	14.56	12.94	12.31	16	49.6
4-5-2021	21-34-0	14.56	14.63	14.56	12.94	12.38	15.6	50.2
4-5-2021	21-49-0	14.25	14.5	14.5	12.94	12.38	14.9	58.2
4-5-2021	22-4-0	14.06	14.38	14.38	12.94	12.44	14.1	63.9
4-5-2021	22-19-0	13.94	14.19	14.31	12.94	12.44	13.5	63.7
4-5-2021	22-34-0	13.81	14.06	14.19	13	12.5	13.2	69.8
4-5-2021	22-49-0	13.69	14	14.06	13	12.5	13	73.7
4-5-2021	23-4-0	13.56	13.81	14	12.94	12.5	12.7	74
4-5-2021	23-19-0	13.5	13.75	13.94	12.94	12.5	12.3	72.4
4-5-2021	23-34-0	13.5	13.63	13.81	12.94	12.56	12.3	74.6
4-5-2021	23-49-0	13.44	13.63	13.75	12.94	12.56	12.8	64.2
5-5-2021	0-4-0	13.44	13.56	13.69	12.88	12.56	13.1	61.6
5-5-2021	0-19-0	13.38	13.56	13.69	12.88	12.63	13.2	59.3
5-5-2021	0-34-0	13.38	13.56	13.63	12.88	12.63	13.1	60.1
5-5-2021	0-49-0	13.25	13.5	13.63	12.81	12.63	13.1	58.4
5-5-2021	1-4-0	13.19	13.5	13.56	12.81	12.63	13	59.2
5-5-2021	1-19-0	13.13	13.44	13.56	12.81	12.63	12.8	63.4
5-5-2021	1-34-0	13.06	13.38	13.5	12.75	12.63	12.7	61
5-5-2021	1-49-0	13.06	13.38	13.5	12.75	12.63	12.9	59.5
5-5-2021	2-4-0	13.06	13.31	13.44	12.75	12.69	12.8	59.1
5-5-2021	2-19-0	13.06	13.31	13.44	12.69	12.69	13	59.2
5-5-2021	2-34-0	13	13.25	13.38	12.69	12.69	13	59.5
5-5-2021	2-49-0	12.94	13.25	13.38	12.69	12.69	13.1	58.8
5-5-2021	3-4-0	12.88	13.19	13.38	12.63	12.69	13.1	59.1
5-5-2021	3-19-0	12.81	13.19	13.31	12.63	12.69	13	59.4
5-5-2021	3-34-0	12.75	13.13	13.25	12.63	12.69	12.8	60.1
5-5-2021	3-49-0	12.69	13.06	13.25	12.56	12.69	12.8	61.2
5-5-2021	4-4-0	12.63	13.06	13.19	12.56	12.69	12.6	62.8
5-5-2021	4-19-0	12.63	13	13.19	12.56	12.69	12.5	64.4
5-5-2021	4-34-0	12.56	12.94	13.13	12.5	12.69	12.2	65.2
5-5-2021	4-49-0	12.56	12.94	13.13	12.5	12.69	12	68.1
5-5-2021	5-4-0	12.5	12.88	13.06	12.5	12.69	11.9	68.2
5-5-2021	5-19-0	12.44	12.88	13.06	12.44	12.69	11.8	69.8
5-5-2021	5-34-0	12.38	12.81	13	12.44	12.69	11.9	71.3
5-5-2021	5-49-0	12.31	12.75	12.94	12.44	12.69	11.8	67.8
5-5-2021	6-4-0	12.31	12.69	12.94	12.38	12.69	11.7	66
5-5-2021	6-19-0	12.25	12.69	12.88	12.38	12.69	11.6	65.6
5-5-2021	6-34-0	12.19	12.63	12.81	12.38	12.69	11.6	65.6
5-5-2021	6-49-0	12.06	12.56	12.81	12.31	12.69	11.4	64.5
5-5-2021	7-4-0	12	12.5	12.75	12.31	12.69	11.2	68.5
5-5-2021	7-19-0	11.69	12.44	12.69	12.31	12.69	11.1	70.9
5-5-2021	7-34-0	11.44	12.25	12.63	12.25	12.69	10.8	76.8
5-5-2021	7-49-0	11.19	12.13	12.5	12.25	12.69	10.5	81.5
5-5-2021	8-4-0	11.06	12	12.38	12.19	12.69	10.3	82.1
5-5-2021	8-19-0	11.06	11.88	12.31	12.19	12.69	10.3	83.3
5-5-2021	8-34-0	10.94	11.81	12.25	12.13	12.69	10	85
5-5-2021	8-49-0	10.94	11.75	12.19	12.13	12.63	10.2	84.3
5-5-2021	9-4-0	10.81	11.69	12.13	12.06	12.69	10.1	86.2
5-5-2021	9-19-0	10.63	11.63	12.06	12.06	12.63	10.1	86.4
5-5-2021	9-34-0	10.25	11.44	11.94	12	12.63	9.9	76.5

5-5-2021	9-49-0	10.31	11.31	11.81	12	12.63	9.5	77
5-5-2021	10-4-0	10.13	11.25	11.75	11.94	12.63	9.5	79
5-5-2021	10-19-0	10.06	11.13	11.63	11.88	12.63	9.5	78.1
5-5-2021	10-34-0	9.94	11.06	11.56	11.88	12.63	9.3	85.2
5-5-2021	10-49-0	9.94	10.94	11.44	11.81	12.63	8.7	86.9
5-5-2021	11-4-0	9.94	10.88	11.38	11.75	12.56	8.6	87.7
5-5-2021	11-19-0	9.81	10.81	11.31	11.69	12.56	8.6	90.1
5-5-2021	11-34-0	9.88	10.75	11.25	11.63	12.56	8.8	86.3
5-5-2021	11-49-0	10	10.75	11.19	11.63	12.56	8.8	89.2
5-5-2021	12-4-0	10.06	10.81	11.19	11.56	12.56	9	87.6
5-5-2021	12-19-0	10.06	10.75	11.13	11.5	12.5	9.2	83.7
5-5-2021	12-34-0	10.13	10.75	11.13	11.5	12.5	9.2	79.6
5-5-2021	12-49-0	11	10.81	11.13	11.44	12.5	9.5	80.7
5-5-2021	13-4-0	11.44	11	11.19	11.38	12.5	10.3	79.3
5-5-2021	13-19-0	11.31	11.13	11.25	11.38	12.5	11.1	72.3
5-5-2021	13-34-0	12.44	11.25	11.31	11.31	12.44	11.1	75.1
5-5-2021	13-49-0	11.63	11.44	11.44	11.31	12.44	12.4	71.3
5-5-2021	14-4-0	11.44	11.38	11.44	11.25	12.44	11.8	70.1
5-5-2021	14-19-0	11.75	11.44	11.5	11.25	12.44	11.8	69.3
5-5-2021	14-34-0	12	11.56	11.56	11.25	12.38	12.1	68.4
5-5-2021	14-49-0	11.56	11.56	11.56	11.25	12.38	12.6	65.5
5-5-2021	15-4-0	11.38	11.44	11.56	11.25	12.38	12.3	67.5
5-5-2021	15-19-0	11.38	11.38	11.56	11.25	12.38	12	62.7
5-5-2021	15-34-0	11.56	11.38	11.5	11.25	12.38	11.9	62.8
5-5-2021	15-49-0	11.63	11.5	11.5	11.25	12.38	12	62
5-5-2021	16-4-0	13.38	11.75	11.56	11.25	12.31	11.8	61.9
5-5-2021	16-19-0	13.56	12.25	11.81	11.25	12.31	12.8	57.5
5-5-2021	16-34-0	13.25	12.44	12.06	11.25	12.31	13.2	55.1
5-5-2021	16-49-0	13	12.5	12.13	11.25	12.31	13.2	52.6
5-5-2021	17-4-0	12.94	12.5	12.19	11.31	12.31	13.1	53.1
5-5-2021	17-19-0	12.81	12.56	12.25	11.31	12.31	13	58.5
5-5-2021	17-34-0	12.69	12.5	12.25	11.31	12.31	12.9	56.8
5-5-2021	17-49-0	12.69	12.5	12.31	11.38	12.31	12.5	46.4
5-5-2021	18-4-0	12.31	12.5	12.31	11.38	12.31	12.3	47.2
5-5-2021	18-19-0	12.25	12.38	12.31	11.44	12.31	12.2	45
5-5-2021	18-34-0	12.38	12.38	12.31	11.44	12.25	12.1	42.5
5-5-2021	18-49-0	12.13	12.38	12.25	11.44	12.31	12.3	42.6
5-5-2021	19-4-0	11.88	12.31	12.25	11.5	12.25	11.8	45.7
5-5-2021	19-19-0	11.63	12.13	12.19	11.5	12.25	11.3	48.1
5-5-2021	19-34-0	11.31	12	12.13	11.5	12.31	10.9	48.6
5-5-2021	19-49-0	11.13	11.88	12.06	11.5	12.25	10.6	48.8
5-5-2021	20-4-0	10.88	11.75	12	11.5	12.31	10.2	50.5
5-5-2021	20-19-0	10.69	11.63	11.88	11.5	12.25	9.9	50.7
5-5-2021	20-34-0	10.44	11.5	11.75	11.5	12.31	9.7	50.2
5-5-2021	20-49-0	10.31	11.31	11.69	11.5	12.25	9.3	50.7
5-5-2021	21-4-0	10.13	11.19	11.56	11.5	12.31	9.1	50.4
5-5-2021	21-19-0	9.94	11.06	11.5	11.44	12.31	8.9	51.9
5-5-2021	21-34-0	9.81	10.94	11.38	11.44	12.31	8.6	53.2
5-5-2021	21-49-0	9.69	10.88	11.31	11.38	12.31	8.6	53.3
5-5-2021	22-4-0	9.56	10.75	11.19	11.38	12.31	8.3	55.5

5-5-2021	22-19-0	9.44	10.63	11.13	11.31	12.25	8	57.6
5-5-2021	22-34-0	9.25	10.5	11	11.31	12.25	7.8	58.3
5-5-2021	22-49-0	9.13	10.44	10.94	11.25	12.25	7.6	59.7
5-5-2021	23-4-0	9.06	10.31	10.81	11.19	12.25	7.3	61.1
5-5-2021	23-19-0	8.94	10.19	10.75	11.19	12.25	7.1	63.2
5-5-2021	23-34-0	8.81	10.06	10.63	11.13	12.25	7	62.4
5-5-2021	23-49-0	8.69	10	10.56	11.06	12.25	6.8	63.6
6-5-2021	0-4-0	8.56	9.88	10.44	11.06	12.25	6.5	66.3
6-5-2021	0-19-0	8.44	9.81	10.38	11	12.25	6.4	66.7
6-5-2021	0-34-0	8.38	9.69	10.31	10.94	12.19	6.3	67.4
6-5-2021	0-49-0	8.25	9.63	10.19	10.88	12.19	6.2	68.2
6-5-2021	1-4-0	8.19	9.5	10.13	10.81	12.19	6	69.6
6-5-2021	1-19-0	8.06	9.44	10.06	10.81	12.19	5.9	69.4
6-5-2021	1-34-0	8	9.38	9.94	10.75	12.19	5.9	69.7
6-5-2021	1-49-0	7.88	9.25	9.88	10.69	12.19	5.6	70.9
6-5-2021	2-4-0	7.81	9.19	9.81	10.63	12.13	5.5	71.1
6-5-2021	2-19-0	7.63	9.06	9.69	10.56	12.13	5.3	72.6
6-5-2021	2-34-0	7.5	9	9.63	10.5	12.13	4.8	75.5
6-5-2021	2-49-0	7.5	8.88	9.56	10.44	12.13	4.5	76.8
6-5-2021	3-4-0	7.44	8.81	9.5	10.44	12.06	4.6	76.7
6-5-2021	3-19-0	7.38	8.75	9.38	10.38	12.06	4.9	74.2
6-5-2021	3-34-0	7.25	8.69	9.31	10.31	12.06	4.9	75
6-5-2021	3-49-0	7.06	8.56	9.25	10.25	12	4.2	78.9
6-5-2021	4-4-0	6.94	8.5	9.19	10.19	12	3.5	83.1
6-5-2021	4-19-0	7	8.38	9.06	10.13	12	3.7	81.1
6-5-2021	4-34-0	7.06	8.31	9	10.06	11.94	4.1	80.2
6-5-2021	4-49-0	7	8.31	8.94	10	11.94	4.5	78.6
6-5-2021	5-4-0	7.06	8.25	8.88	10	11.94	4.7	77.4
6-5-2021	5-19-0	7.13	8.25	8.88	9.94	11.88	4.7	77.7
6-5-2021	5-34-0	7.19	8.25	8.81	9.88	11.88	4.9	77.5
6-5-2021	5-49-0	7.13	8.25	8.81	9.81	11.88	5.2	75.8
6-5-2021	6-4-0	7	8.19	8.75	9.75	11.81	5.3	74.3
6-5-2021	6-19-0	7	8.13	8.69	9.75	11.81	5.2	75
6-5-2021	6-34-0	7.25	8.13	8.69	9.69	11.75	5.2	75.6
6-5-2021	6-49-0	7.38	8.19	8.69	9.63	11.75	5.3	75.8
6-5-2021	7-4-0	7.5	8.19	8.69	9.56	11.75	5.7	75
6-5-2021	7-19-0	7.56	8.25	8.69	9.56	11.69	6	73.8
6-5-2021	7-34-0	7.56	8.25	8.69	9.5	11.69	6.2	77
6-5-2021	7-49-0	7.69	8.31	8.69	9.44	11.69	6.3	76
6-5-2021	8-4-0	7.88	8.38	8.75	9.44	11.63	6.6	76.3
6-5-2021	8-19-0	8.06	8.44	8.75	9.44	11.63	7.2	70.4
6-5-2021	8-34-0	8.19	8.56	8.81	9.38	11.63	7.5	67.9
6-5-2021	8-49-0	8.44	8.63	8.81	9.38	11.56	8	63.9
6-5-2021	9-4-0	8.81	8.75	8.94	9.31	11.56	8.5	62.6
6-5-2021	9-19-0	9.13	8.94	9	9.31	11.56	9	58.6
6-5-2021	9-34-0	9.25	9.13	9.13	9.31	11.5	9.5	57.4
6-5-2021	9-49-0	9.81	9.25	9.19	9.31	11.5	9.6	55.9
6-5-2021	10-4-0	10.25	9.5	9.31	9.31	11.5	9.9	56.2
6-5-2021	10-19-0	10.75	9.69	9.5	9.31	11.44	10.4	54
6-5-2021	10-34-0	11.06	9.88	9.63	9.31	11.44	10.6	54.7

6-5-2021	10-49-0	10.94	10	9.75	9.31	11.44	10.8	55.3
6-5-2021	11-4-0	12.44	10.19	9.88	9.38	11.38	10.5	58.6
6-5-2021	11-19-0	11.81	10.44	10.06	9.38	11.38	11.7	51.9
6-5-2021	11-34-0	11.31	10.5	10.13	9.44	11.38	11.5	50.6
6-5-2021	11-49-0	11.44	10.5	10.19	9.44	11.38	10.7	54.1
6-5-2021	12-4-0	11.81	10.63	10.31	9.5	11.38	10.9	52.8
6-5-2021	12-19-0	12.88	10.81	10.38	9.56	11.31	11.2	52.4
6-5-2021	12-34-0	14.25	11.06	10.56	9.56	11.31	12.6	49.1
6-5-2021	12-49-0	15.63	11.38	10.75	9.63	11.31	13.7	48.7
6-5-2021	13-4-0	15.38	11.81	11	9.69	11.31	15.3	40.8
6-5-2021	13-19-0	14.75	12.13	11.25	9.75	11.31	14.8	37.7
6-5-2021	13-34-0	14.25	12.31	11.44	9.81	11.31	14.3	36.9
6-5-2021	13-49-0	14.06	12.38	11.56	9.88	11.31	13.9	39.9
6-5-2021	14-4-0	13.5	12.38	11.69	10	11.31	13.7	39.8
6-5-2021	14-19-0	13.31	12.31	11.69	10.06	11.31	13.3	41.6
6-5-2021	14-34-0	13.5	12.38	11.75	10.13	11.31	13.1	41.2
6-5-2021	14-49-0	13.5	12.44	11.88	10.25	11.31	13.4	40.8
6-5-2021	15-4-0	14.19	12.56	11.94	10.31	11.31	13.5	41.7
6-5-2021	15-19-0	14.38	12.88	12.13	10.38	11.31	14.3	39.5
6-5-2021	15-34-0	14.06	12.94	12.25	10.5	11.38	14.8	38
6-5-2021	15-49-0	13.75	12.94	12.38	10.56	11.38	14.5	37.9
6-5-2021	16-4-0	13.56	12.88	12.38	10.63	11.38	14.2	40.5
6-5-2021	16-19-0	13.5	12.88	12.38	10.69	11.38	14.1	38.7
6-5-2021	16-34-0	13.81	12.94	12.44	10.75	11.44	13.9	37.6
6-5-2021	16-49-0	14.06	13.06	12.56	10.81	11.44	14.3	38.4
6-5-2021	17-4-0	14.13	13.19	12.63	10.88	11.44	14.4	38.2
6-5-2021	17-19-0	13.88	13.19	12.75	10.94	11.44	14.6	37.9
6-5-2021	17-34-0	13.88	13.19	12.75	11	11.5	14.4	39.7
6-5-2021	17-49-0	13.69	13.19	12.75	11.06	11.5	14.3	40.3
6-5-2021	18-4-0	13.5	13.13	12.81	11.13	11.5	14	40.8
6-5-2021	18-19-0	13.38	13.06	12.81	11.19	11.56	13.9	42.8
6-5-2021	18-34-0	13.25	13	12.75	11.25	11.56	13.8	42.2
6-5-2021	18-49-0	13.13	12.94	12.75	11.25	11.56	13.5	44.7
6-5-2021	19-4-0	13.06	12.94	12.75	11.31	11.56	13.5	46
6-5-2021	19-19-0	12.94	12.88	12.69	11.38	11.63	13.3	45.9
6-5-2021	19-34-0	12.75	12.81	12.69	11.38	11.63	13	46.4
6-5-2021	19-49-0	12.63	12.75	12.63	11.44	11.63	12.8	48
6-5-2021	20-4-0	12.5	12.69	12.63	11.44	11.69	12.5	49.7
6-5-2021	20-19-0	12.38	12.56	12.56	11.5	11.69	12	55.8
6-5-2021	20-34-0	12.25	12.5	12.5	11.5	11.69	11.7	59.5
6-5-2021	20-49-0	12.13	12.44	12.5	11.5	11.75	11.5	64.7
6-5-2021	21-4-0	11.94	12.31	12.44	11.5	11.75	11.1	66.8
6-5-2021	21-19-0	11.63	12.25	12.38	11.5	11.75	10.7	75.2
6-5-2021	21-34-0	11.44	12.06	12.25	11.5	11.81	9.9	78.7
6-5-2021	21-49-0	11.25	11.94	12.19	11.5	11.81	9.8	85
6-5-2021	22-4-0	11	11.75	12.06	11.5	11.81	9.5	88.1
6-5-2021	22-19-0	10.81	11.63	12	11.5	11.81	9.4	90
6-5-2021	22-34-0	10.63	11.5	11.88	11.5	11.81	9.2	91.3
6-5-2021	22-49-0	10.44	11.38	11.75	11.44	11.81	9.3	89.9
6-5-2021	23-4-0	10.44	11.25	11.63	11.44	11.81	9.4	90.2

6-5-2021	23-19-0	10.38	11.19	11.56	11.44	11.88	9	92
6-5-2021	23-34-0	10.31	11.13	11.5	11.38	11.88	8.9	92.5
6-5-2021	23-49-0	10.25	11.06	11.44	11.38	11.88	8.9	92.3
7-5-2021	0-4-0	10.19	11	11.38	11.31	11.88	8.7	92.9
7-5-2021	0-19-0	10.13	10.94	11.31	11.31	11.88	8.6	93.5
7-5-2021	0-34-0	10.13	10.88	11.25	11.25	11.88	8.5	94.2
7-5-2021	0-49-0	10.13	10.88	11.19	11.25	11.88	8.6	94.3
7-5-2021	1-4-0	10.13	10.81	11.13	11.19	11.88	8.5	94.3
7-5-2021	1-19-0	10.06	10.75	11.13	11.13	11.88	8.6	94.3
7-5-2021	1-34-0	10	10.75	11.13	11.13	11.88	8.5	94.5
7-5-2021	1-49-0	9.94	10.69	11.06	11.06	11.88	8.4	94.3
7-5-2021	2-4-0	9.94	10.69	11	11.06	11.88	8.3	94.3
7-5-2021	2-19-0	9.94	10.63	11	11	11.88	8.4	94.5
7-5-2021	2-34-0	9.88	10.63	10.94	11	11.88	8.5	94.6
7-5-2021	2-49-0	9.81	10.56	10.94	10.94	11.88	8.5	94.4
7-5-2021	3-4-0	9.81	10.56	10.88	10.94	11.88	8.6	94
7-5-2021	3-19-0	9.75	10.5	10.88	10.94	11.88	8.7	94.1
7-5-2021	3-34-0	9.69	10.44	10.81	10.88	11.88	8.5	94.2
7-5-2021	3-49-0	9.69	10.44	10.81	10.88	11.88	8.5	94.1
7-5-2021	4-4-0	9.63	10.38	10.75	10.81	11.88	8.4	94.2
7-5-2021	4-19-0	9.5	10.31	10.69	10.81	11.81	8.5	94.4
7-5-2021	4-34-0	9.5	10.31	10.69	10.81	11.81	8.6	93.2
7-5-2021	4-49-0	9.44	10.25	10.63	10.75	11.81	8.8	93
7-5-2021	5-4-0	9.38	10.19	10.56	10.75	11.81	9.1	91.2
7-5-2021	5-19-0	9.31	10.13	10.5	10.69	11.81	9.4	89.4
7-5-2021	5-34-0	9.31	10.06	10.5	10.69	11.81	9.5	88.6
7-5-2021	5-49-0	9.31	10.06	10.44	10.63	11.81	9.6	88.5
7-5-2021	6-4-0	9.38	10	10.38	10.63	11.81	9.6	88.3
7-5-2021	6-19-0	9.38	10	10.38	10.56	11.75	9.5	90.7
7-5-2021	6-34-0	9.31	10	10.38	10.56	11.75	9.4	91.7
7-5-2021	6-49-0	9.25	10	10.31	10.56	11.75	9.3	92.5
7-5-2021	7-4-0	9.38	9.94	10.31	10.5	11.75	9.2	92.6
7-5-2021	7-19-0	9.5	10	10.31	10.5	11.75	9.2	92.7
7-5-2021	7-34-0	9.56	10	10.31	10.44	11.75	9.3	92.4
7-5-2021	7-49-0	9.44	10	10.31	10.44	11.75	9.4	91.6
7-5-2021	8-4-0	9.5	10	10.31	10.44	11.69	9.3	89.6
7-5-2021	8-19-0	9.56	10	10.31	10.38	11.69	9.4	87.8
7-5-2021	8-34-0	9.63	10	10.25	10.38	11.69	9.5	86.9
7-5-2021	8-49-0	9.75	10.06	10.31	10.38	11.69	9.7	85.7
7-5-2021	9-4-0	9.56	10.06	10.31	10.31	11.69	10	83
7-5-2021	9-19-0	9.81	10.06	10.31	10.31	11.69	10	80
7-5-2021	9-34-0	9.69	10.06	10.31	10.31	11.63	10.1	81.3
7-5-2021	9-49-0	9.81	10.06	10.31	10.31	11.63	10.2	77.4
7-5-2021	10-4-0	9.56	10	10.31	10.25	11.63	10.3	75.2
7-5-2021	10-19-0	9.69	10	10.25	10.25	11.63	10.1	74.5
7-5-2021	10-34-0	9.94	10	10.25	10.25	11.63	10.1	72.1
7-5-2021	10-49-0	10.38	10.06	10.31	10.25	11.63	10.5	68.6
7-5-2021	11-4-0	10.69	10.25	10.31	10.25	11.63	10.9	66.9
7-5-2021	11-19-0	10.31	10.25	10.38	10.25	11.56	11.4	61.6
7-5-2021	11-34-0	10.75	10.31	10.38	10.25	11.56	11	66.3

7-5-2021	11-49-0	10.38	10.38	10.44	10.25	11.56	11.2	66.6
7-5-2021	12-4-0	12.69	10.5	10.5	10.25	11.56	10.3	79
7-5-2021	12-19-0	13.19	10.88	10.63	10.25	11.56	11.9	86.3
7-5-2021	12-34-0	11.94	10.94	10.75	10.25	11.56	12.8	70.5
7-5-2021	12-49-0	11.63	11	10.81	10.25	11.56	11.8	76.3
7-5-2021	13-4-0	11.56	11	10.88	10.25	11.56	11.7	69.4
7-5-2021	13-19-0	12	11.13	10.94	10.31	11.56	11.7	71.2
7-5-2021	13-34-0	13.06	11.38	11.06	10.31	11.56	12.3	71.3
7-5-2021	13-49-0	13.5	11.63	11.25	10.38	11.5	14	66.4
7-5-2021	14-4-0	14.38	11.88	11.44	10.38	11.5	14.6	51.8
7-5-2021	14-19-0	12.25	12	11.63	10.44	11.5	15.2	50.9
7-5-2021	14-34-0	10.94	11.56	11.56	10.44	11.5	11.8	72.3
7-5-2021	14-49-0	10.5	11.25	11.38	10.5	11.56	9.2	81.3
7-5-2021	15-4-0	10.38	11.06	11.25	10.56	11.5	8.4	88.1
7-5-2021	15-19-0	10.31	10.94	11.13	10.63	11.5	8.3	89.1
7-5-2021	15-34-0	10.38	10.88	11.06	10.63	11.5	8.4	90.3
7-5-2021	15-49-0	10.63	10.81	11	10.63	11.56	8.5	89.9
10-5-2021	10-36-53	19.25	17	16.37	14.5	14.06	23.3	37.4
10-5-2021	10-37-16	19.25	17	16.37	14.5	14.13	23.2	37.5
10-5-2021	10-37-29	19.19	17.06	16.37	14.5	14.06	23.1	39.1
10-5-2021	10-49-16	19.56	17.19	16.5	14.5	14.06	25.4	32.3
10-5-2021	10-49-20	19.56	17.19	16.5	14.5	14.06	25.3	33.3
10-5-2021	11-4-0	20.62	17.44	16.62	14.5	14.06	25.3	33.3
10-5-2021	11-19-0	21.75	17.62	16.81	14.5	14.06	26	37.5
10-5-2021	11-34-0	23.31	18	17	14.56	14.06	27	32.5
10-5-2021	11-41-13	25.75	18.37	17.12	14.63	14.06	33.3	26.5
10-5-2021	11-41-22	25.75	18.37	17.12	14.56	14.06	32.9	27
10-5-2021	11-56-0	24.12	19.19	17.62	14.63	14.06	33	26.7
10-5-2021	12-11-0	24.06	19.5	17.94	14.69	14.06	29.6	30.4
10-5-2021	12-26-0	24.19	19.69	18.19	14.75	14.06	28.8	29.4
10-5-2021	12-41-0	24.37	19.94	18.44	14.88	14.06	28.1	29.9
10-5-2021	12-56-0	24.75	20.19	18.69	14.94	14.06	28.5	31.2
10-5-2021	13-11-0	25.06	20.56	18.94	15.06	14.06	29.1	32.5
10-5-2021	13-26-0	25.81	21	19.31	15.25	14.13	29.4	32.1
10-5-2021	13-41-0	26.56	21.62	19.69	15.38	14.13	30.1	28.9
10-5-2021	13-56-0	28	22.25	20.19	15.5	14.13	30.3	31.9
10-5-2021	14-11-0	30.19	23.06	20.69	15.69	14.19	30.1	29.9
10-5-2021	14-26-0	30.25	24.19	21.31	15.88	14.19	30.5	32.9
10-5-2021	14-41-0	32	25.25	21.87	16.06	14.25	31.3	30.3
10-5-2021	14-56-0	33.88	25.75	22.44	16.25	14.25	31.2	32.5
10-5-2021	15-11-0	35.13	26.44	23.06	16.44	14.31	31.4	30.6
10-5-2021	15-26-0	35.69	27.25	23.75	16.62	14.31	31.9	28.4
10-5-2021	15-41-0	33.75	27.75	24.25	16.87	14.38	31.7	30.2
10-5-2021	15-56-0	33.5	28.31	24.75	17.12	14.44	31.6	28.9
10-5-2021	16-11-0	35.25	28.87	25.31	17.37	14.5	31.6	29.8
10-5-2021	16-26-0	35.88	29.25	25.87	17.62	14.56	31.8	28.6
10-5-2021	16-41-0	33.94	29.5	26.37	17.87	14.63	31	31
10-5-2021	16-56-0	31.25	28.69	26.31	18.12	14.63	30.6	32.7
10-5-2021	17-11-0	29.81	27.87	26	18.44	14.75	29	34.2
10-5-2021	17-26-0	28.75	27.19	25.62	18.62	14.81	28.1	32.9

10-5-2021	17-41-0	28	26.69	25.31	18.87	14.88	27.5	36.1
10-5-2021	17-56-0	27.37	26.25	25.06	19.06	14.94	27	35.7
10-5-2021	18-11-0	26.81	25.87	24.81	19.19	15	26.7	36
10-5-2021	18-26-0	26.37	25.56	24.56	19.31	15.06	26	39.5
10-5-2021	18-41-0	26	25.25	24.37	19.44	15.19	25.5	40.3
10-5-2021	18-56-0	25.62	25	24.19	19.5	15.25	25.4	40.6
10-5-2021	19-11-0	25.25	24.75	24.06	19.56	15.31	24.9	40.5
10-5-2021	19-26-0	25	24.56	23.87	19.62	15.38	24.5	41.3
10-5-2021	19-41-0	24.69	24.31	23.75	19.69	15.44	24.4	42.4
10-5-2021	19-56-0	24.31	24.06	23.56	19.69	15.5	24	44.8
10-5-2021	20-11-0	24	23.87	23.37	19.69	15.56	23.4	44.3
10-5-2021	20-26-0	23.69	23.69	23.25	19.75	15.63	22.9	46.3
10-5-2021	20-41-0	23.37	23.44	23.06	19.75	15.69	22.3	48.7
10-5-2021	20-56-0	23.06	23.25	22.94	19.69	15.75	21.9	50.4
10-5-2021	21-11-0	22.75	23	22.75	19.69	15.81	21.3	52.2
10-5-2021	21-26-0	22.37	22.75	22.56	19.69	15.88	20.9	56.3
10-5-2021	21-41-0	22.06	22.56	22.44	19.69	15.94	19.9	60.2
10-5-2021	21-56-0	21.75	22.31	22.25	19.62	15.94	19.4	61.1
10-5-2021	22-11-0	21.5	22.12	22.06	19.62	16	18.8	63.4
10-5-2021	22-26-0	21.19	21.87	21.87	19.56	16.06	18.3	66.1
10-5-2021	22-41-0	20.94	21.69	21.69	19.5	16.06	17.8	68.2
10-5-2021	22-56-0	20.75	21.44	21.56	19.5	16.12	17.5	69.8
10-5-2021	23-11-0	20.5	21.25	21.37	19.44	16.12	17.1	70.7
10-5-2021	23-26-0	20.44	21.06	21.19	19.37	16.19	16.9	71.9
10-5-2021	23-41-0	20.31	21	21.06	19.31	16.19	16.9	72
10-5-2021	23-56-0	20.19	20.87	20.94	19.25	16.25	17.1	70.5
11-5-2021	0-11-0	20.06	20.69	20.81	19.19	16.25	17.1	71
11-5-2021	0-26-0	19.94	20.56	20.69	19.12	16.25	16.9	72.2
11-5-2021	0-41-0	19.81	20.44	20.56	19.06	16.31	16.8	71.1
11-5-2021	0-56-0	19.75	20.37	20.5	19	16.31	17.2	68.2
11-5-2021	1-11-0	19.62	20.25	20.37	18.94	16.31	17.6	65.5
11-5-2021	1-26-0	19.56	20.12	20.25	18.87	16.31	17.6	65.1
11-5-2021	1-41-0	19.44	20.06	20.19	18.75	16.37	17.6	64.2
11-5-2021	1-56-0	19.31	19.94	20.06	18.75	16.37	17.4	65.3
11-5-2021	2-11-0	19.12	19.81	19.94	18.69	16.37	17	67.4
11-5-2021	2-26-0	19	19.69	19.81	18.56	16.37	16.6	68.5
11-5-2021	2-41-0	18.81	19.56	19.75	18.5	16.37	16.3	69
11-5-2021	2-56-0	18.69	19.44	19.62	18.44	16.37	16	70.2
11-5-2021	3-11-0	18.56	19.31	19.5	18.37	16.37	15.9	71
11-5-2021	3-26-0	18.5	19.19	19.37	18.31	16.37	15.8	70.4
11-5-2021	3-41-0	18.37	19.06	19.31	18.25	16.37	16.1	67.5
11-5-2021	3-56-0	18.25	19	19.19	18.19	16.37	16	68.4
11-5-2021	4-11-0	18.12	18.87	19.12	18.12	16.37	15.8	68.5
11-5-2021	4-26-0	18.06	18.81	19	18.06	16.37	15.6	70.8
11-5-2021	4-41-0	17.94	18.69	18.94	18	16.37	15.6	69.5
11-5-2021	4-56-0	17.87	18.56	18.81	17.94	16.37	15.6	69.4
11-5-2021	5-11-0	17.75	18.5	18.75	17.87	16.37	15.7	68.3
11-5-2021	5-26-0	17.69	18.44	18.69	17.81	16.37	15.6	69.4
11-5-2021	5-41-0	17.62	18.31	18.56	17.75	16.37	15.5	69
11-5-2021	5-56-0	17.62	18.25	18.5	17.69	16.37	15.6	68.5

11-5-2021	6-11-0	17.62	18.19	18.37	17.69	16.37	15.8	68.7
11-5-2021	6-26-0	17.69	18.12	18.37	17.56	16.37	15.9	68.7
11-5-2021	6-41-0	17.75	18.12	18.31	17.5	16.37	16.2	67.6
11-5-2021	6-56-0	17.87	18.12	18.31	17.44	16.31	16.6	66.7
11-5-2021	7-11-0	18.12	18.19	18.25	17.44	16.31	16.9	65.6
11-5-2021	7-26-0	18.25	18.25	18.25	17.37	16.31	17.4	65.7
11-5-2021	7-41-0	18.31	18.31	18.31	17.31	16.31	17.9	62.4
11-5-2021	7-56-0	18.56	18.37	18.31	17.25	16.31	18.3	64.3
11-5-2021	8-4-51	18.62	18.44	18.31	17.25	16.31	19.4	60.9
11-5-2021	8-5-0	18.62	18.44	18.31	17.25	16.31	19.4	62.1
11-5-2021	8-20-0	18.75	18.56	18.44	17.19	16.31	19.4	62.5
11-5-2021	8-35-0	18.94	18.62	18.44	17.19	16.25	19.8	60.2
11-5-2021	8-50-0	19.06	18.69	18.5	17.12	16.25	20.3	58.8
11-5-2021	9-5-0	19.31	18.81	18.56	17.12	16.25	20.8	59.6
11-5-2021	9-20-0	19.62	18.94	18.62	17.12	16.25	21.4	55.9
11-5-2021	9-35-0	19.81	19.06	18.69	17.06	16.25	22.4	51.2
11-5-2021	9-50-0	20.19	19.19	18.81	17.06	16.25	23.3	47.6
11-5-2021	10-5-0	20.62	19.37	18.87	17.06	16.25	24.6	42.2
11-5-2021	10-20-0	21.5	19.56	19	17.06	16.19	25.6	41.5
11-5-2021	10-35-0	22.62	19.81	19.12	17.06	16.19	26.7	39.5
11-5-2021	10-50-0	23.62	20.12	19.31	17.06	16.19	27.8	36.6
11-5-2021	11-5-0	24.69	20.37	19.5	17.12	16.19	28.4	35.9
11-5-2021	11-20-0	25.62	20.69	19.69	17.12	16.19	29.1	34.8
11-5-2021	11-35-0	26.56	21.06	19.87	17.19	16.19	29.6	34
11-5-2021	11-50-0	27.5	21.37	20.12	17.19	16.19	30.1	33.5
11-5-2021	12-5-0	28.31	21.75	20.37	17.31	16.19	31	32.1
11-5-2021	12-20-0	29.25	22.19	20.62	17.31	16.19	31.7	29.1
11-5-2021	12-35-0	29.94	22.69	21	17.44	16.19	32.3	28.2
11-5-2021	12-50-0	30.69	23.31	21.44	17.56	16.19	32.6	30.9
11-5-2021	13-5-0	31.81	23.94	21.94	17.62	16.19	33	29.9
11-5-2021	13-20-0	33.31	24.81	22.56	17.81	16.19	33.8	30.5
11-5-2021	13-35-0	35.56	25.87	23.31	17.94	16.25	33.9	28.5
11-5-2021	13-50-0	38.38	27.75	24.31	18.12	16.25	35.9	28.5
11-5-2021	14-5-0	37.94	28.69	25.25	18.37	16.25	42.7	22.2
11-5-2021	14-20-0	36.19	29.06	25.87	18.56	16.25	35.6	28.5
11-5-2021	14-35-0	38.5	29.62	26.31	18.87	16.31	32.4	29.2
11-5-2021	14-50-0	39.81	30.62	26.94	19.12	16.37	32.7	32.4
11-5-2021	15-5-0	40.75	31.69	27.69	19.37	16.37	34.3	29.8
11-5-2021	15-20-0	41.44	32.63	28.44	19.69	16.44	34.5	27.1
11-5-2021	15-35-0	41.63	33.38	29.12	19.94	16.5	34.8	29.5
11-5-2021	15-50-0	41.88	34	29.75	20.25	16.56	34.3	27.3
11-5-2021	16-5-0	41.94	34.44	30.31	20.56	16.62	34.5	28.8
11-5-2021	16-20-0	41.88	34.81	30.81	20.87	16.69	34.5	26.5
11-5-2021	16-35-0	41.38	35	31.19	21.19	16.75	34.5	29.9
11-5-2021	16-50-0	37.13	34.25	31.19	21.5	16.81	34	29.7
11-5-2021	17-5-0	35.13	33.13	30.81	21.75	16.87	31.9	27.5
11-5-2021	17-12-29	34.25	32.63	30.56	21.94	16.94	29.9	30.8
11-5-2021	17-12-42	34.19	32.63	30.62	21.94	16.94	29.8	31.6
11-5-2021	17-27-0	33.06	31.81	30.12	22.19	17	29.8	29.4
11-5-2021	17-42-0	32.13	31.12	29.69	22.37	17.12	29.5	29.5

11-5-2021	17-57-0	31.31	30.56	29.31	22.56	17.19	28.9	31.5
11-5-2021	18-12-0	30.69	30.06	29	22.75	17.25	28.5	31.1
11-5-2021	18-27-0	30.12	29.62	28.69	22.87	17.37	28.3	32.9
11-5-2021	18-42-0	29.62	29.25	28.44	22.94	17.44	27.8	32.4
11-5-2021	18-57-0	29.12	28.87	28.19	23.06	17.56	27.6	35
11-5-2021	19-12-0	28.62	28.56	27.94	23.06	17.62	27	33.9
11-5-2021	19-27-0	28.31	28.25	27.69	23.12	17.75	26.5	35.6
11-5-2021	19-42-0	28.06	28	27.44	23.12	17.81	26.3	35.6
11-5-2021	19-57-0	27.81	27.75	27.25	23.12	17.87	26.2	37.1
11-5-2021	20-12-0	27.5	27.5	27.06	23.12	17.94	26.1	33.4
11-5-2021	20-27-0	27.19	27.25	26.87	23.12	18	25.9	34.2
11-5-2021	20-42-0	26.75	27	26.69	23.12	18.12	25.8	34.1
11-5-2021	20-57-0	26.44	26.75	26.5	23.12	18.12	25.3	35.1
11-5-2021	21-12-0	26.12	26.5	26.31	23.06	18.19	25	34.8
11-5-2021	21-27-0	25.87	26.31	26.12	23.06	18.25	24.5	35.7
11-5-2021	21-42-0	25.56	26.06	25.94	23	18.31	24.4	36.7
11-5-2021	21-57-0	25.37	25.87	25.75	22.94	18.37	24	38.3
11-5-2021	22-12-0	25.19	25.69	25.62	22.94	18.44	23.7	39.1
11-5-2021	22-27-0	24.94	25.5	25.44	22.87	18.44	23.5	39.7
11-5-2021	22-42-0	24.81	25.31	25.31	22.81	18.5	23.3	40.4
11-5-2021	22-57-0	24.69	25.12	25.12	22.75	18.56	23.1	41.2
11-5-2021	23-12-0	24.44	25	25	22.69	18.56	22.9	41
11-5-2021	23-27-0	24.25	24.81	24.87	22.62	18.62	22.8	42.5
11-5-2021	23-42-0	24	24.69	24.69	22.56	18.62	22.5	43
11-5-2021	23-57-0	23.81	24.5	24.56	22.5	18.69	22.2	45.2
12-5-2021	0-12-0	23.56	24.31	24.44	22.44	18.69	22	46
12-5-2021	0-27-0	23.31	24.12	24.25	22.37	18.69	21.7	46.2
12-5-2021	0-42-0	23.06	23.94	24.12	22.31	18.75	21.2	50
12-5-2021	0-57-0	22.75	23.75	23.94	22.25	18.75	20.6	51.4
12-5-2021	1-12-0	22.44	23.5	23.81	22.19	18.75	20	53.7
12-5-2021	1-27-0	22.12	23.25	23.62	22.06	18.75	19.2	57.8
12-5-2021	1-42-0	21.87	23.06	23.44	22	18.81	18.3	59.8
12-5-2021	1-57-0	21.69	22.87	23.25	21.94	18.81	17.7	62.5
12-5-2021	2-12-0	21.5	22.69	23.06	21.87	18.81	17.5	62.2
12-5-2021	2-27-0	21.31	22.5	22.94	21.75	18.81	17.3	65.5
12-5-2021	2-42-0	21.06	22.31	22.75	21.69	18.81	16.9	65.2
12-5-2021	2-57-0	20.87	22.12	22.62	21.62	18.81	16.7	68.7
12-5-2021	3-12-0	20.62	21.94	22.44	21.5	18.81	16.1	71.3
12-5-2021	3-27-0	20.5	21.75	22.25	21.44	18.81	15.9	71.1
12-5-2021	3-42-0	20.25	21.62	22.12	21.31	18.81	15.9	72.8
12-5-2021	3-57-0	20.12	21.44	21.94	21.25	18.81	15.8	73.8
12-5-2021	4-12-0	20	21.25	21.81	21.12	18.81	15.5	76.5
12-5-2021	4-27-0	19.81	21.12	21.69	21.06	18.81	15.2	78.1
12-5-2021	4-42-0	19.62	20.94	21.5	20.94	18.81	15.1	79
12-5-2021	4-57-0	19.5	20.81	21.37	20.87	18.81	14.8	80.3
12-5-2021	5-12-0	19.37	20.69	21.25	20.81	18.81	14.7	83.3
12-5-2021	5-27-0	19.25	20.56	21.06	20.69	18.75	14.7	84.6
12-5-2021	5-42-0	19.31	20.44	21	20.62	18.75	14.6	85.6
12-5-2021	5-57-0	19.25	20.37	20.87	20.5	18.75	15.2	90.5
12-5-2021	6-12-0	19.19	20.25	20.75	20.44	18.75	15.6	89.4

12-5-2021	6-27-0	19.37	20.19	20.69	20.31	18.75	15.7	89.1
12-5-2021	6-42-0	19.5	20.19	20.62	20.25	18.69	15.8	90
12-5-2021	6-57-0	19.69	20.25	20.56	20.19	18.69	16.2	86
12-5-2021	7-12-0	19.81	20.25	20.56	20.06	18.69	16.6	87.4
12-5-2021	7-27-0	20	20.31	20.56	20	18.62	17.1	83.1
12-5-2021	7-42-0	20.06	20.31	20.5	19.94	18.62	17.6	81.7
12-5-2021	7-57-0	20.06	20.31	20.5	19.87	18.62	17.8	80.2
12-5-2021	8-12-0	20.19	20.37	20.5	19.81	18.62	17.7	80.9
12-5-2021	8-27-0	20.37	20.37	20.5	19.75	18.56	17.9	78.9
12-5-2021	8-42-0	20.44	20.44	20.5	19.69	18.56	18.2	79.2
12-5-2021	8-57-0	20.44	20.5	20.5	19.62	18.56	18.5	78.1
12-5-2021	9-12-0	20.75	20.56	20.56	19.56	18.5	18.6	78.3
12-5-2021	9-27-0	20.69	20.62	20.56	19.5	18.5	19	76.7
12-5-2021	9-42-0	20.87	20.69	20.62	19.5	18.5	19.1	77
12-5-2021	9-57-0	20.94	20.69	20.62	19.44	18.44	19.3	74
12-5-2021	10-12-0	21.5	20.81	20.69	19.44	18.44	19.5	73.2
12-5-2021	10-27-0	21.81	21	20.75	19.37	18.44	20.2	70.8
12-5-2021	10-42-0	21.69	21.12	20.87	19.37	18.37	20.5	68.5
12-5-2021	10-57-0	22	21.19	20.94	19.37	18.37	20.5	69.6
12-5-2021	11-12-0	22.44	21.37	21	19.31	18.37	20.8	68.7
12-5-2021	11-27-0	22.5	21.5	21.06	19.31	18.37	21.4	67.1
12-5-2021	11-42-0	23.19	21.62	21.19	19.31	18.31	21.7	64.2
12-5-2021	11-57-0	23.5	21.87	21.31	19.37	18.31	22.2	62.4
12-5-2021	12-12-0	24.37	22.19	21.5	19.37	18.31	22.5	61.2
12-5-2021	12-27-0	25.12	22.5	21.69	19.37	18.31	23.6	58.9
12-5-2021	12-42-0	25.56	22.87	21.94	19.37	18.31	24.7	55.2
12-5-2021	12-57-0	27	23.37	22.25	19.44	18.31	24.5	55.6
12-5-2021	13-12-0	25.87	23.62	22.5	19.5	18.31	25.8	50.6
12-5-2021	13-27-0	25.12	23.56	22.62	19.56	18.25	24.4	54.8
12-5-2021	13-42-0	26.06	23.62	22.69	19.62	18.25	23.5	57.8
12-5-2021	13-57-0	26	23.87	22.87	19.69	18.25	23.8	58.7
12-5-2021	14-12-0	27	24.31	23.06	19.75	18.25	23.9	57.4
12-5-2021	14-27-0	25.25	24.25	23.31	19.81	18.25	24.5	55.8
12-5-2021	14-42-0	24.25	23.87	23.19	19.87	18.25	22.8	61.4
12-5-2021	14-57-0	24	23.44	23	20	18.25	21.4	66.5
12-5-2021	15-12-0	24.44	23.56	22.94	20.06	18.31	20.1	76.1
12-5-2021	15-27-0	26.06	23.94	23.06	20.12	18.31	20.1	71.7
12-5-2021	15-42-0	26.87	24.56	23.37	20.12	18.31	21.3	66.7
12-5-2021	15-57-0	26.37	24.75	23.69	20.19	18.31	22.2	65.3
12-5-2021	16-12-0	27.94	24.94	23.87	20.25	18.31	21.6	64.7
12-5-2021	16-27-0	25.87	25	24.06	20.31	18.37	22.4	62.3
12-5-2021	16-42-0	25.44	24.62	24	20.37	18.37	21.1	64.8
12-5-2021	16-57-0	25.44	24.5	23.87	20.44	18.37	20.9	67.5
12-5-2021	17-12-0	25	24.44	23.81	20.5	18.37	21	66.5
12-5-2021	17-27-0	24.31	24.12	23.75	20.56	18.37	21.1	64.7
12-5-2021	17-42-0	23.87	23.87	23.56	20.62	18.44	20.3	69.2
12-5-2021	17-57-0	23.56	23.62	23.37	20.62	18.44	20	70.4
12-5-2021	18-12-0	23.25	23.37	23.25	20.69	18.44	20	70.8
12-5-2021	18-27-0	23	23.19	23.12	20.69	18.5	19.5	72.9
12-5-2021	18-42-0	22.62	23	22.94	20.69	18.5	19.1	74.1

12-5-2021	18-57-0	22.25	22.75	22.81	20.69	18.5	18.5	76.3
12-5-2021	19-12-0	22.06	22.56	22.62	20.69	18.5	18.1	77.4
12-5-2021	19-27-0	21.75	22.37	22.5	20.69	18.56	17.9	78.8
12-5-2021	19-42-0	21.44	22.12	22.31	20.62	18.56	17.6	80.1
12-5-2021	19-57-0	21	21.94	22.19	20.62	18.56	17.4	79.6
12-5-2021	20-12-0	20.75	21.69	22	20.62	18.62	16.9	82
12-5-2021	20-27-0	20.56	21.5	21.81	20.56	18.62	16.8	82.4
12-5-2021	20-42-0	20.37	21.31	21.69	20.5	18.62	16.7	82.3
12-5-2021	20-57-0	20.25	21.19	21.5	20.5	18.62	16.6	82.4
12-5-2021	21-12-0	20.12	21.06	21.37	20.44	18.62	16.5	83.1
12-5-2021	21-27-0	19.94	20.87	21.25	20.37	18.62	16.5	83.3
12-5-2021	21-42-0	19.75	20.75	21.12	20.31	18.62	16.2	84.4
12-5-2021	21-57-0	19.69	20.56	21	20.25	18.62	16.2	84.5
12-5-2021	22-12-0	19.56	20.5	20.87	20.19	18.69	16.1	85
12-5-2021	22-27-0	19.37	20.37	20.75	20.12	18.62	15.8	86
12-5-2021	22-42-0	19.37	20.25	20.62	20.06	18.69	15.8	86.3
12-5-2021	22-57-0	19.31	20.12	20.56	20	18.69	15.8	85.8
12-5-2021	23-12-0	19.25	20.06	20.44	19.94	18.62	15.8	86.2
12-5-2021	23-27-0	19.19	20	20.37	19.87	18.62	15.9	85.7
12-5-2021	23-42-0	19.12	19.87	20.31	19.81	18.62	15.9	85.3
12-5-2021	23-57-0	19.06	19.81	20.25	19.75	18.62	15.9	85
13-5-2021	0-12-0	18.25	19.62	20.12	19.69	18.62	15.9	85
13-5-2021	0-27-0	17.62	19.06	19.81	19.62	18.62	15.5	91.9
13-5-2021	0-42-0	17.44	18.81	19.56	19.56	18.62	15.1	92.8
13-5-2021	0-57-0	17	18.5	19.31	19.5	18.62	15	93.9
13-5-2021	1-12-0	16.94	18.31	19.12	19.44	18.56	14.7	93.8
13-5-2021	1-27-0	16.81	18.25	19	19.37	18.56	14.4	93.9
13-5-2021	1-42-0	16.62	18.12	18.87	19.31	18.56	14.4	94.6
13-5-2021	1-57-0	16.62	18.06	18.81	19.19	18.56	14.4	95
13-5-2021	2-12-0	16.69	18	18.69	19.12	18.56	14.3	95.1
13-5-2021	2-27-0	16.62	17.94	18.62	19	18.56	14.4	94.6
13-5-2021	2-42-0	16.5	17.87	18.5	18.94	18.5	14.4	94.6
13-5-2021	2-57-0	16.5	17.81	18.44	18.81	18.5	14.4	94.7
13-5-2021	3-12-0	16.44	17.75	18.37	18.75	18.5	14.4	94.5
13-5-2021	3-27-0	16.37	17.62	18.25	18.69	18.44	14.3	94.6
13-5-2021	3-42-0	16.25	17.56	18.19	18.56	18.44	14.3	94.5
13-5-2021	3-57-0	16.12	17.44	18.06	18.5	18.37	14.1	94.5
13-5-2021	4-12-0	16.06	17.37	18	18.44	18.37	14.1	94.7
13-5-2021	4-27-0	15.94	17.25	17.87	18.37	18.37	14	94.8
13-5-2021	4-42-0	15.94	17.12	17.75	18.31	18.31	13.9	94.9
13-5-2021	4-57-0	15.88	17.06	17.69	18.19	18.31	13.9	95
13-5-2021	5-12-0	15.88	17	17.62	18.12	18.31	13.9	95.1
13-5-2021	5-27-0	15.88	16.94	17.56	18.06	18.25	14	94.8
13-5-2021	5-42-0	15.88	16.94	17.5	18	18.25	14	94.6
13-5-2021	5-57-0	15.81	16.81	17.44	17.94	18.19	14	94.8
13-5-2021	6-12-0	15.81	16.81	17.37	17.81	18.19	14	94.7
13-5-2021	6-27-0	15.88	16.75	17.31	17.75	18.12	14.1	94.5
13-5-2021	6-42-0	15.88	16.75	17.25	17.69	18.12	14.3	94.4
13-5-2021	6-57-0	15.88	16.69	17.19	17.62	18.06	14.4	93.7
13-5-2021	7-12-0	15.88	16.69	17.19	17.56	18.06	14.4	93.2

13-5-2021	7-27-0	15.94	16.62	17.12	17.5	18.06	14.3	93.7
13-5-2021	7-42-0	15.94	16.62	17.12	17.44	18	14.5	92.8
13-5-2021	7-57-0	15.88	16.62	17.06	17.44	18	14.5	93.2
13-5-2021	8-12-0	15.88	16.62	17.06	17.37	17.94	14.5	92.8
13-5-2021	8-27-0	15.94	16.56	17	17.31	17.94	14.4	92.4
13-5-2021	8-42-0	16.06	16.56	17	17.25	17.87	14.4	92.6
13-5-2021	8-57-0	16.25	16.62	17	17.25	17.87	14.7	92.4
13-5-2021	9-12-0	16.31	16.69	17	17.19	17.87	14.8	91.7
13-5-2021	9-27-0	16.44	16.69	17	17.12	17.81	15	91.1
13-5-2021	9-42-0	16.69	16.81	17	17.06	17.81	15	91.1
13-5-2021	9-57-0	16.94	16.94	17.06	17.06	17.75	15.3	90.3
13-5-2021	10-12-0	17.37	17.06	17.12	17	17.75	15.7	89.8
13-5-2021	10-27-0	18	17.31	17.25	17	17.69	16.1	86.5
13-5-2021	10-42-0	18.37	17.56	17.37	17	17.69	16.9	85.3
13-5-2021	10-57-0	18.44	17.81	17.56	16.94	17.69	17.6	80.1
13-5-2021	11-12-0	18.56	17.87	17.69	16.94	17.62	17.6	80.4
13-5-2021	11-27-0	18.81	18.12	17.81	16.94	17.62	17.7	82.3
13-5-2021	11-42-0	18.75	18.25	17.94	16.94	17.56	18.2	78.3
13-5-2021	11-57-0	18.5	18.25	18	17	17.56	17.9	79.5
13-5-2021	12-12-0	18.31	18.19	18	17	17.56	17.6	80.2
13-5-2021	12-27-0	18.37	18.19	18	17	17.5	17.3	81.5
13-5-2021	12-42-0	18	18.12	18.06	17.06	17.5	17.3	81.5
13-5-2021	12-57-0	17.75	18	18	17.06	17.5	16.9	83.8
13-5-2021	13-12-0	17.31	17.87	17.94	17.06	17.5	16.4	85.2
13-5-2021	13-27-0	17.06	17.62	17.81	17.06	17.5	16.1	90.4
13-5-2021	13-42-0	16.81	17.5	17.75	17.12	17.44	15.9	91.4
13-5-2021	13-57-0	16.25	17.31	17.62	17.06	17.44	15.6	90.5
13-5-2021	14-12-0	15.94	16.87	17.44	17.06	17.44	15.5	92.1
13-5-2021	14-27-0	15.63	16.56	17.19	17.06	17.44	14.8	91.7
13-5-2021	14-42-0	15.31	16.37	17.06	17.06	17.44	14.3	92.8
13-5-2021	14-57-0	15.13	16.25	16.87	17.06	17.44	13.8	93.8
13-5-2021	15-12-0	15.25	16.19	16.81	17	17.44	13.6	93.5
13-5-2021	15-27-0	15	16.19	16.75	17	17.44	13.7	93.8
13-5-2021	15-42-0	14.88	16.06	16.62	16.94	17.37	13.5	93.7
13-5-2021	15-57-0	14.75	15.94	16.56	16.87	17.37	13.4	93.7
13-5-2021	16-12-0	14.63	15.81	16.44	16.81	17.37	13.3	93.8
13-5-2021	16-27-0	14.31	15.56	16.31	16.81	17.37	13.2	93.9
13-5-2021	16-42-0	14.25	15.38	16.12	16.75	17.37	12.7	94
13-5-2021	16-57-0	14.25	15.31	16	16.69	17.37	12.5	94.5
13-5-2021	17-12-0	14.31	15.31	16	16.62	17.37	12.5	94.4
13-5-2021	17-27-0	14.13	15.31	15.94	16.56	17.31	12.5	94.6
13-5-2021	17-42-0	14.06	15.25	15.88	16.5	17.31	12.5	94
13-5-2021	17-57-0	13.94	15.19	15.81	16.44	17.31	12.4	94.2
13-5-2021	18-12-0	13.75	15.06	15.69	16.44	17.25	12.3	94.3
13-5-2021	18-27-0	13.69	15	15.63	16.31	17.25	12.2	94.1
13-5-2021	18-42-0	13.63	14.88	15.56	16.31	17.25	12.1	94.3
13-5-2021	18-57-0	13.56	14.81	15.5	16.25	17.25	12.1	94.1
13-5-2021	19-12-0	13.5	14.75	15.38	16.19	17.19	12	94.1
13-5-2021	19-27-0	13.44	14.69	15.31	16.12	17.19	11.9	94.4
13-5-2021	19-42-0	13.44	14.63	15.25	16.06	17.12	11.9	94.4

13-5-2021	19-57-0	13.31	14.56	15.19	16	17.12	11.9	94.4
13-5-2021	20-12-0	13.25	14.44	15.13	15.94	17.12	11.8	94.5
13-5-2021	20-27-0	13.19	14.38	15	15.88	17.06	11.8	94.5
13-5-2021	20-42-0	13.13	14.31	14.94	15.81	17.06	11.7	94.5
13-5-2021	20-57-0	13.06	14.25	14.94	15.75	17	11.7	94.1
13-5-2021	21-12-0	12.94	14.19	14.81	15.75	17	11.6	94.3
13-5-2021	21-27-0	12.81	14.13	14.75	15.69	16.94	11.6	94.3
13-5-2021	21-42-0	12.75	14.06	14.69	15.63	16.94	11.6	94.1
13-5-2021	21-57-0	12.69	14	14.63	15.56	16.94	11.5	94.2
13-5-2021	22-12-0	12.69	13.94	14.56	15.5	16.87	11.5	94
13-5-2021	22-27-0	12.63	13.88	14.5	15.44	16.87	11.5	94.1
13-5-2021	22-42-0	12.56	13.81	14.44	15.38	16.81	11.4	94.4
13-5-2021	22-57-0	12.5	13.75	14.38	15.38	16.81	11.4	94
13-5-2021	23-12-0	12.44	13.69	14.31	15.31	16.81	11.3	93.6
13-5-2021	23-27-0	12.44	13.63	14.25	15.25	16.75	11.2	93.8
13-5-2021	23-42-0	12.38	13.56	14.19	15.19	16.75	11.2	94
13-5-2021	23-57-0	12.38	13.5	14.13	15.13	16.69	11.2	93.7
14-5-2021	0-12-0	12.25	13.44	14.13	15.06	16.69	11.2	94
14-5-2021	0-27-0	12.19	13.38	14	15	16.62	11.1	93.4
14-5-2021	0-42-0	12.13	13.31	14	15	16.62	11	93.5
14-5-2021	0-57-0	12.06	13.25	13.88	14.94	16.62	11	93.4
14-5-2021	1-12-0	12	13.19	13.88	14.88	16.56	10.9	93.5
14-5-2021	1-27-0	11.94	13.13	13.75	14.81	16.56	10.8	93.3
14-5-2021	1-42-0	11.88	13.06	13.69	14.75	16.5	10.8	93.3
14-5-2021	1-57-0	11.81	13	13.69	14.75	16.5	10.7	93.4
14-5-2021	2-12-0	11.81	12.94	13.63	14.69	16.44	10.7	93.2
14-5-2021	2-27-0	11.75	12.88	13.56	14.63	16.44	10.7	93.1
14-5-2021	2-42-0	11.75	12.81	13.5	14.56	16.37	10.7	93.2
14-5-2021	2-57-0	11.69	12.81	13.44	14.56	16.37	10.6	93.2
14-5-2021	3-12-0	11.63	12.75	13.38	14.5	16.31	10.6	93.2
14-5-2021	3-27-0	11.56	12.69	13.38	14.44	16.31	10.5	93.4
14-5-2021	3-42-0	11.5	12.63	13.31	14.38	16.25	10.4	93.4
14-5-2021	3-57-0	11.44	12.63	13.25	14.31	16.25	10.2	93.7
14-5-2021	4-12-0	11.44	12.56	13.19	14.31	16.25	10.1	94.4
14-5-2021	4-27-0	11.38	12.5	13.13	14.25	16.19	10	94.7
14-5-2021	4-42-0	11.25	12.44	13.06	14.19	16.19	10	94.9
14-5-2021	4-57-0	11.19	12.38	13	14.19	16.12	9.9	94.6
14-5-2021	5-12-0	11.13	12.31	12.94	14.13	16.12	9.8	94.4
14-5-2021	5-27-0	11.06	12.25	12.88	14.06	16.06	9.9	94.6
14-5-2021	5-42-0	11	12.19	12.88	14	16.06	9.8	94.2
14-5-2021	5-57-0	11	12.13	12.81	13.94	16	9.8	93.9
14-5-2021	6-12-0	10.94	12.13	12.75	13.94	16	9.9	93.6
14-5-2021	6-27-0	10.94	12.06	12.69	13.88	16	9.9	93.3
14-5-2021	6-42-0	11	12.06	12.69	13.81	15.94	9.9	93.2
14-5-2021	6-57-0	10.94	12	12.63	13.81	15.88	9.9	93.7
14-5-2021	7-12-0	10.94	12	12.63	13.75	15.88	10	93.8
14-5-2021	7-27-0	10.94	12	12.56	13.69	15.88	10	93.3
14-5-2021	7-42-0	11	12	12.56	13.69	15.81	10.1	92.9
14-5-2021	7-57-0	11	11.94	12.5	13.63	15.81	10.2	92.7
14-5-2021	8-12-0	11.06	11.94	12.5	13.56	15.75	10.2	93.5

14-5-2021	8-27-0	11.13	11.94	12.5	13.56	15.75	10.2	94
14-5-2021	8-42-0	11.19	12	12.5	13.5	15.69	10.3	94.2
14-5-2021	8-57-0	11.38	12.06	12.5	13.5	15.69	10.4	94.2
14-5-2021	9-12-0	11.38	12.06	12.5	13.44	15.63	10.7	93.8
14-5-2021	9-27-0	11.44	12.13	12.5	13.44	15.63	10.8	93.4
14-5-2021	9-42-0	11.5	12.13	12.56	13.38	15.56	10.9	93
14-5-2021	9-57-0	11.63	12.19	12.56	13.38	15.56	11	93.1
14-5-2021	10-12-0	11.81	12.19	12.56	13.31	15.56	11.1	92.9
14-5-2021	10-27-0	12.06	12.31	12.63	13.31	15.5	11.3	93.2
14-5-2021	10-42-0	12.19	12.44	12.69	13.31	15.5	11.5	92.4
14-5-2021	10-57-0	12.31	12.5	12.75	13.25	15.44	11.8	91.8
14-5-2021	11-12-0	12.56	12.63	12.81	13.25	15.44	12	91.6
14-5-2021	11-27-0	12.81	12.69	12.88	13.25	15.38	12.2	92
14-5-2021	11-42-0	12.94	12.81	12.94	13.25	15.38	12.6	91.1
14-5-2021	11-57-0	13	12.94	13.06	13.25	15.38	12.8	89.5
14-5-2021	12-12-0	12.88	12.94	13.06	13.25	15.31	12.8	90.4
14-5-2021	12-27-0	13.13	13.06	13.13	13.25	15.31	12.6	90.3
14-5-2021	12-42-0	14.06	13.25	13.19	13.25	15.31	12.8	90
14-5-2021	12-57-0	14	13.5	13.38	13.25	15.25	13.5	88.4
14-5-2021	13-12-0	13.81	13.56	13.5	13.25	15.25	14	86.6
14-5-2021	13-27-0	14	13.63	13.56	13.31	15.25	13.6	86.7
14-5-2021	13-42-0	13.5	13.63	13.63	13.31	15.25	14.1	82.8
14-5-2021	13-57-0	13.31	13.5	13.63	13.31	15.19	13.7	85
28-6-2021	9-55-36	23.62	23.06	22.94	22.69	23.75	25	68.7
28-6-2021	9-55-47	23.62	23.06	22.94	22.75	23.75	24.6	69.3
28-6-2021	9-58-10	23.81	23.06	23	22.69	23.75	27.9	59.3
29-6-2021	15-40-16	39.06	33.75	30.62	24.75	24.19	37.6	41.8
29-6-2021	16-35-8	36.94	34.19	31.94	25.62	24.31	40.1	33.2
29-6-2021	16-39-29	36.75	34.13	32	25.75	24.31	34.9	42.1
29-6-2021	16-43-9	36.25	34	31.94	25.75	24.31	33	44.5
29-6-2021	16-43-11	36.25	34	32	25.81	24.31	33	44.5
29-6-2021	16-43-12	36.25	34	32	25.81	24.31	32.8	44
29-6-2021	16-43-13	36.25	34	32	25.81	24.31	32.8	44
29-6-2021	16-43-14	36.25	34	32	25.81	24.31	32.7	44
29-6-2021	16-43-17	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-18	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-19	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-20	36.25	34.06	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-21	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-22	36.25	34.06	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-24	36.25	34.06	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-25	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-26	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-27	36.25	34	32	25.81	24.31	32.7	44.2
29-6-2021	16-43-28	36.25	34.06	32	25.81	24.31	32.6	44.2
29-6-2021	16-43-29	36.25	34.06	32	25.81	24.31	32.6	44.2
29-6-2021	16-43-30	36.25	34	32	25.81	24.31	32.6	44.2
29-6-2021	16-43-32	36.25	34	32	25.81	24.31	32.6	44.2
29-6-2021	16-43-33	36.25	34.06	32	25.81	24.31	32.6	44.3
29-6-2021	16-43-34	36.25	34	32	25.81	24.31	32.6	44.3

29-6-2021	16-43-35	36.25	34.06	32	25.81	24.31	32.6	44.3
29-6-2021	16-43-36	36.25	34.06	32	25.81	24.31	32.6	44.3
29-6-2021	16-43-37	36.25	34.06	32	25.81	24.31	32.5	45
29-6-2021	16-43-38	36.25	34	32	25.81	24.31	32.5	45
29-6-2021	16-43-39	36.25	34	32	25.81	24.31	32.6	44.8
29-6-2021	16-43-41	36.25	34.06	32	25.81	24.31	32.6	44.8
29-6-2021	16-43-42	36.25	34.06	32	25.81	24.31	32.6	44.7
29-6-2021	16-43-43	36.25	34.06	32	25.81	24.31	32.6	44.7
29-6-2021	16-43-48	36.25	34	32	25.81	24.31	32.5	44.6
29-6-2021	16-43-49	36.25	34	32	25.81	24.31	32.5	44.6
29-6-2021	16-43-50	36.25	34	32	25.81	24.31	32.5	44.6
29-6-2021	16-43-51	36.25	34	32	25.81	24.31	32.5	44.6
29-6-2021	16-43-52	36.25	34	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-53	36.25	34	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-54	36.25	34.06	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-56	36.25	34	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-57	36.25	34	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-58	36.25	34	32	25.81	24.31	32.5	44.5
29-6-2021	16-43-59	36.25	34	32	25.81	24.31	32.4	44.4
29-6-2021	16-44-0	36.25	34	32	25.81	24.31	32.4	44.4
29-6-2021	16-44-1	36.25	34	32	25.81	24.31	32.4	44.4
29-6-2021	16-44-2	36.25	34	32	25.81	24.31	32.4	44.4
29-6-2021	16-44-4	36.25	34	32	25.81	24.31	32.4	44.5
29-6-2021	16-44-5	36.25	34	32	25.81	24.31	32.4	44.5
29-6-2021	16-44-6	36.25	34	32	25.81	24.31	32.4	44.6
29-6-2021	16-44-7	36.25	34	32	25.81	24.31	32.4	44.6
29-6-2021	16-44-8	36.25	34	32	25.81	24.31	32.4	44.8
29-6-2021	16-44-9	36.31	34	32	25.81	24.31	32.4	44.8
29-6-2021	16-44-10	36.25	34.06	32	25.81	24.31	32.4	45
29-6-2021	16-44-12	36.25	34	32	25.81	24.31	32.4	45
29-6-2021	16-44-13	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-14	36.25	34	32	25.87	24.31	32.4	45.1
29-6-2021	16-44-15	36.25	34	32	25.81	24.31	32.4	45.2
29-6-2021	16-44-16	36.25	34	32	25.81	24.31	32.4	45.2
29-6-2021	16-44-17	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-18	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-19	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-21	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-22	36.25	34.06	32	25.81	24.31	32.4	45
29-6-2021	16-44-23	36.25	34	32	25.81	24.31	32.4	45
29-6-2021	16-44-24	36.25	34	32	25.81	24.31	32.4	45.1
29-6-2021	16-44-25	36.25	34	32	25.87	24.31	32.4	45.1
29-6-2021	16-44-26	36.25	34	32	25.81	24.31	32.3	45.2
29-6-2021	16-44-27	36.25	34	32	25.87	24.31	32.3	45.2
29-6-2021	16-44-28	36.25	34	32	25.81	24.31	32.4	45.3
29-6-2021	16-44-30	36.25	34	32	25.81	24.37	32.4	45.3
29-6-2021	16-44-31	36.25	34.06	32	25.81	24.31	32.3	45.3
29-6-2021	16-44-32	36.19	34	32	25.87	24.37	32.3	45.3
29-6-2021	16-44-33	36.25	34	32	25.81	24.37	32.3	45.4
29-6-2021	16-44-34	36.19	34.06	32	25.87	24.37	32.3	45.4

29-6-2021	16-44-35	36.19	34	32	25.81	24.37	32.3	45.5
29-6-2021	16-44-36	36.19	34	32	25.81	24.31	32.3	45.5
29-6-2021	16-44-38	36.19	34	32	25.87	24.31	32.3	45.5
29-6-2021	16-44-39	36.19	34	32	25.81	24.31	32.3	45.5
29-6-2021	16-44-40	36.19	34	32	25.81	24.31	32.3	45.5
29-6-2021	16-44-41	36.19	34	32	25.81	24.31	32.3	45.5
29-6-2021	16-44-42	36.19	34	32	25.81	24.31	32.3	45.6
29-6-2021	16-44-43	36.19	34	32	25.81	24.31	32.3	45.6
29-6-2021	16-44-44	36.19	34	32	25.81	24.31	32.3	45.6
29-6-2021	16-44-46	36.19	34	32	25.87	24.31	32.3	45.6
29-6-2021	16-44-47	36.19	34	32	25.81	24.31	32.3	45.5
29-6-2021	16-44-48	36.19	34	32	25.81	24.37	32.3	45.5
29-6-2021	16-44-49	36.19	34	32	25.81	24.31	32.3	45.3
29-6-2021	16-44-50	36.19	34	32	25.81	24.37	32.3	45.3
29-6-2021	16-44-51	36.19	34	32	25.81	24.31	32.3	45.3
29-6-2021	16-44-52	36.19	34	32	25.81	24.31	32.3	45.3
29-6-2021	16-44-53	36.19	34	32	25.87	24.31	32.3	45.3
29-6-2021	16-44-55	36.19	34	32	25.87	24.31	32.3	45.3
29-6-2021	16-44-56	36.19	34	32	25.81	24.31	32.3	45.4
29-6-2021	16-44-57	36.19	34	32	25.81	24.31	32.3	45.4
29-6-2021	16-44-58	36.19	34	32	25.81	24.31	32.4	45.4
29-6-2021	16-44-59	36.19	34	32	25.81	24.31	32.4	45.4
29-6-2021	16-45-0	36.19	34	32	25.87	24.37	32.4	45.4
29-6-2021	16-45-1	36.19	34	32	25.87	24.31	32.4	45.4
29-6-2021	16-45-3	36.19	34	32	25.81	24.31	32.4	45.4
29-6-2021	16-45-11	36.19	34	32	25.81	24.31	32.4	45.5
29-6-2021	16-45-19	36.13	34	32	25.81	24.31	32.4	45.4
29-6-2021	16-45-43	36.13	33.94	31.94	25.81	24.31	32.4	44.8
29-6-2021	16-45-53	36.13	33.94	32	25.81	24.31	32.4	44.1
29-6-2021	16-45-57	36.13	33.94	32	25.81	24.31	32.4	45.5
29-6-2021	17-24-25	34.88	33.31	31.81	26.44	24.44	36.3	42.2
29-6-2021	17-24-32	34.88	33.31	31.81	26.44	24.44	36.2	43.5
29-6-2021	17-24-42	34.88	33.25	31.81	26.44	24.44	36.2	43.4
29-6-2021	17-24-54	34.75	33.25	31.81	26.44	24.44	36.1	43.2
29-6-2021	17-25-1	34.75	33.25	31.81	26.44	24.44	36	45
29-6-2021	17-26-49	34.38	33.25	31.81	26.44	24.44	35	44.7
29-6-2021	17-26-56	34.38	33.25	31.81	26.44	24.44	34.9	45.5
29-6-2021	17-27-1	34.38	33.25	31.81	26.44	24.44	34.9	46.7
29-6-2021	17-27-7	34.38	33.25	31.81	26.44	24.44	34.9	47.4