SONOGRAPHIC CORRELATION OF FETAL NECK CIRCUMFERENCE AND AREA WITH GESTATIONAL AGE AMONG PREGNANT WOMEN IN PORTHARCOURT, NIGERIA.

A POST FIELD DISSERTATION

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ABSTRACT

Fetal gestational age calculation has been found to be influenced by differences in race. Discrepancy has been noted on previous studies done on fetal neck circumference and area measurements which were attributed to racial difference. This study was aimed at correlating fetal neck circumference and area with common gestational age predictors in second and third trimesters and to determine whether there is racial difference between Nigerians and Caucasians.

This prospective cross sectional study was done on 723 pregnant patients between 14-40 weeks of gestation selected using convenient sampling method at Braithwaite Memorial Specialist Hospital Portharcourt. Axial fetal neck circumference and area values were calculated as mean of three separate measurements. Other sonographic measurements includes biparietal diameter, femur length, abdominal circumference and head circumference.

Mean fetal neck circumference and area values at 40 weeks gestation are 14.32±0.76cm and 15.55±1.68cm² respectively. High values of Pearson correlation coefficient between fetal neck circumference and area and other biometric parameters signify strong correlation. Regression model equations relating FNC and FNA with other biometric parameters were generated as follows.

FNC (cm) = 21.978 + 0.065(FL) + 0.021(BPD) + 0.064(AC) + 0.259(HC).

FNA $(cm^2) = -287.917 + -1.033(FL) - 1.600(BPD) + 3.159(AC) + 2.687(HC).$

No statistical significant difference was noted in fetal neck circumference measurement between Nigerian and Caucasians (p <0.05) while there is statistical significant difference in fetal neck area measurement between Nigerians and Caucasians (p= 0.05)

Nomograms generated can be used to determine gestational age in late pregnancy and rule out neck anomalies associated with neck size.

CHAPTER ONE

INTRODUCTION

1.1 Background of the study

The neck represents anatomically a small part of the human body between the head and the thorax. Due to its unique position, it conveys vital structures that communicate between the head and other parts of the human body. It contains conduit of respiration, deglutition and blood to and from the brain as well as important endocrine and neural structures. The structural development of the neck occurs between the 3rd and 8th weeks of gestation. According to Johnston (1990), the five pairs of brachial arches corresponding to the primitive vertebral gill bars that form on either sides of the pharyngeal foregut on the day 22 are the embryologic basis of all the differentiated structures of the head and neck.

The gestational age refers to the length of pregnancy after the first day of the last menstrual period. The importance of accurate gestational age in pregnancy cannot be over emphasized. According to Peek et al (1994), the estimation of pregnancy date is important to the mother who wants to know when to expect the birth of her baby, and for her health care providers, so they may choose the times to perform various screening test and assessments. Accurate pregnancy dating assists obstetricians in appropriately counseling women who are at risk of preterm delivery about the likely neonatal outcomes. According to Hall and Carr-Hill (1985), uncertain gestational age has been associated with adverse pregnancy

outcome including low birth weight, spontaneous preterm delivery and perinatal mortality independence of maternal characteristics. Pregnancies erroneously thought to be preterm may lead to prolong hospitalization and risk of dangerous medication including tocolytic therapy. It is also essential in the evaluation of fetal growth and detection of intrauterine growth retardation. Gottlieb and Galan (2008) asserts that accurate gestational dating is one of the most important assessment a health care provider make in pregnancy, giving that all of the various management strategies are dependent on knowing where the patient is in gestation. It helps in scheduling invasive diagnostic tests such as chorionic villus sampling or amniocentesis as appropriate timing can influence the safety of the procedure. Also correct biomedical serum screening interpretation depends on the accuracy of dating of pregnancy. Accurate pregnancy dating also helps in the counseling of patient regarding the option of pregnancy termination.

Different parameters have been employed in the calculation of the gestational age of fetus and these includes-

Ovulation date: Most women who know when they ovulate based on formal methods and record keeping such as daily temperature check and on physical symptoms such as pain upon ovulation or observation of changes in vaginal mucus can use it in calculation of their due dates. It is important to note that this method is not without a flaw as variations in the ovulation period among women complicates the matter. Walker et al (1988) supported

this claim when he evaluated 75 ovulation cycles using luteinizing hormone level as a biochemical marker and found that ovulation occurs within a range of 8-31 days after the last menstrual period. Wilcox et al (1993) also stated that the time of ovulation varies greatly in relation to the menstrual cycle, both from cycle to cycle and individual to individual.

Conception date: Calculating expected date of delivery based on conception date is normally used when the conception is medically managed and supervised through technique such as artificial insemination, although this involves an invasive technique.

Last Menstrual Period (LMP): Expected date of delivery is typically calculated based on the date the last menstrual period began according to the mother's report. This forms the basis of Franz Naegele's rule which states that the standard definition of gestational term is 280 days from the date of conception to the date of baby's birth, or 40 weeks from the first day of the mother's last menstrual period (Durham, 2002). This definition is on the assumption that the mother ovulates on the 14th day of the 28 days menstrual cycle. He, therefore use this formula to calculate the expected date of delivery. LMP + 7 days – 3 months = Expected date of delivery. Durham (2002) also made us to understand that the observation made by Franz Naegele was not based on empirical data. Calculation of gestational age using last menstrual period has its own shortcomings. This is because of varying length of follicular phase and the fact that many women do not have regular menstrual cycle. In a study by Kramer et al (1988) on the validity of gestational age estimation by menstrual dating in term, preterm and post term found that out of 11,000 pregnant women who underwent early ultrasound, one fourth of all the infant who would have been classified as preterm and one eight of all the infant who would have been classified as post term by menstrual history would have been misdiagnosed. Similarly Campbell et al (1985) demonstrated that of more than 4,000 pregnant women, 45% were not certain about their LMP as a result of poor recall of date, irregular cycles, bleeding in early pregnancy or oral contraceptive use within two months of conception. Geirsson and Busby-Earle (1991) also stated that certain last menstrual period date may not provide a reliable estimate of gestational age. They found out that10-45% of pregnant women cannot provide useful information about their LMP; and 18% with certain menstrual dates have significant difference between menstrual and ultrasound dating.

Fundal Height Measurement: Measurement of symphysis- fundal height which spans from the pubic symphysis to the fundal part of the uterus was used to estimate the gestational age of a fetus. This measurement although, may be a useful adjunct, it does not provide reliable guide as a sole predictor of gestational age. Gardosi and Frances (1999) found that the measurement of fundal height is influenced by the amniotic fluid volume, placenta thickness, myometrial wall thickness, maternal abdominal wall fat and the relationship of the uterus with the bony pelvis.

Quickening: This is the first feel of fetal movement as noticed by the mother. It occurs from about 16-20 weeks of gestational age and has been used as a rough estimation of fetal age.

Also the detection of fetal tone using stethoscope at 18-20 weeks of gestational age is also employed in the estimation of fetal gestational age. Also, this can be useful adjunct, but carries potential error when used as a sole predictor of gestational age.

Ultrasound Scan: The use of ultrasonography has played a vital role in the estimation of fetal gestational age. Kalish and Chervenak (2002) stated that ultrasound assessment of gestational age has become an integral part of obstetric practice in recent times. Currently, the sonographic estimation of gestational age is derived from calculation based on fetal measurement and serves as an indirect indication of gestational age. Hadlock et al (1984) states that numerous equations regarding the relationship between fetal biometric parameters and gestational age has been described and has proved early antenatal ultrasound to be an objective and accurate means of establishing gestational age. The biometric parameters used in the estimation of fetal gestational age are as follows:-

Gestational Sac Diameter (GSD): The gestational sac is the earliest sign of pregnancy in ultrasound. The gestational sac is a fluid-like sac surrounded by an echogenic rim- the developing chorionic villi within the endometrial cavity. According to Crispigny et al (1988), the gestational sac is visualized as early as five menstrual weeks using transvaginal scan. Three

measurements are made which includes the long axis, anterior-posterior diameter and transverse diameter. The average of these three measurements are calculated and then used in the estimation of fetal gestational age.

Crown Rump Length (CRL): This is the measurement of the fetal length from the tip of the cephalic pole to the tip of caudal pole. Callen (2000) advised that three adequate CRL measurements should be taken and the average used in the determination of gestational age. The accuracy of the crown rump length has been well documented in the medical literatures. Specifically, gestational age can be estimated safely with a maximal error of 3-5 days in the first trimester using crown rump length according to Kalish et al (2004) and Wiser et al (1994). Chaudhuri et al (2013) noted that in twin pregnancies, the crown rump length of the smaller fetus is more accurate in determining gestational age.

Biparietal Diameter (BPD): The BPD is imaged in the transaxial plane of the fetal head at the level of thalami in the midline, equidistance from the temporoparietal bones and usually the calvum septum pelucidium anteriorly. The BPD was the first fetal parameter to be utilized in the determination of gestational age in the second trimester before more recent studies have evaluated the use of several other biometric parameters. Gestational age estimation using a single biparietal diameter has an accuracy of \pm 10-11 days in the second trimester although, recent study by Wu et al (2012) found that biparietal diameter share similar accuracy with

CRL in late first trimester ultrasound estimation with additional advantage of lower random error.

Femur Length (FL): The femur length measurement is taken along the long axis of the bone. A straight measurement of the osseous portion is taken from one end to the other end disregarding bone curvature. The accuracy of FL and BPD are similar in the third trimester although there is controversy regarding the accuracy of FL prior to 26 weeks of gestation. Mongeli et al (2003) stated that in late second trimester, the femur length can be used and is nearly as accurate as head circumference and biparietal diameters.

Abdominal Circumference (AC): The abdominal circumference is obtained in the transaxial view of the abdomen at the level of the fetal liver, using the umbilical portion of the left portal vein as the landmark. The fetal stomach is at the same level which is slightly caudad to the fetal heart and cephalad to the kidneys. The abdominal circumference is most useful in the determination of fetal weight. The accuracy of abdominal circumference in the estimation of gestational age is less than all other predictors of gestational age at term (Benson and Doubilet, 1991).

Apart from these traditional predictors of gestational age, there are other ancillary biometric parameters used in the estimation of fetal gestational age. These include- ear size, orbital diameter, cerebral diameter, placenta thickness, fetal neck circumference, fetal neck area and foot length. Benson and Doubilet (1991) noted that the accuracy of all the traditional predictors of gestational ages worsen progressively as pregnancy advances to the third

trimester. These show that none of these parameters can be reliably used to estimate gestational age in third trimester as there are gross variations in growth from one fetus to another. It is due to these significant margins of error in ultrasound measurement that some school of thought advised that gestational age calculation should not be changed from that calculated from the last menstrual period unless the discrepancy is more than two weeks. Also, as a result of these variations, Gottlieb et al. (2008), observed that in addition to the traditional biometry, ancillary biometric and non biometric measurement can help narrow the biological variability between fetuses. Fetal neck circumference and area seems to be good ancillary biometric parameters which are easier to identify and measures. Hata et al (1988) and David et al (2007) found a linear increase in fetal neck circumference and area with increase in gestational age. There was discrepancy noted in the two studies from 32 weeks of gestation upwards where the measurements from David and colleagues become higher than that of Hata and colleagues. This discrepancy was attributed to either morphological difference in the population studied or enhancement in the sonographic resolution of the ultrasound machine used in recent times compared to that used two decades ago. Mittendorf et al (1990) also observed that gestational age of an average healthy, white, private care, and primiparous Irish American woman average 288 days from LMP to birth; 8 days longer than that of Franz Naegele's rule. They further concluded that ethnicity among other factors affects the gestational age of fetus. Degan (2001) also supported this

idea when he stated that various epidemiological factors involved in the fetal growth should be considered and specific chart for different communities should be used when possible. This may be the reason why Kurtz (2007) stated that there were many well established charts that has been in use for a long time; however, marked difference between population sometimes forces researches to build nomograms for different race, hence the need for this study. This study is therefore aimed at creating a reference range nomograms of the axial neck circumference and area in second and third trimesters in a Nigerian population.

1.2 Statement of Problem

 There seems to be racial difference in fetal neck circumference and area measurements in previous literatures (David et al 2007), thus the need to have an indigenous nomogram.

1.3 Research Questions

- 1. Can fetal neck circumference and area be used as accurate predictor of gestational age in second and third trimester?
- 2. Is there any geographic variation in the fetal neck circumference and area between Blacks (Nigerian) and the Caucasians (USA)?

1.4 Objectives of the study

1.41 General Objective

1. To measure fetal neck circumference and area as sonographic indices for determining gestational age in second and third trimesters.

1.42 Specific Objectives of the Study

1. To establish nomograms of fetal neck circumference and area for determining gestational age in second and third trimesters in a Nigerian population.

2. To compare the results of this study with that obtained from the Caucasians (USA).

1.5 Significance of the Study

1. Fetal neck circumference and area nomograms created may be used an indigenous biometric parameters for the estimation of fetal gestational age in second and third trimesters.

2. Fetal anomaly associated with increase or decrease in the fetal neck circumference and area can be identified when measuring the neck circumference and area.

1.6. Scope of Study

This study was conducted at the radiology department of Braithwaite Memorial Specialist Hospital (BMSH) in Portharcourt, Nigeria.

1.7 Operational Definition of Terms

Ultrasound: This is a mechanical longitudinal wave with frequency above the range of human hearing which is greater than 20 KHz. It is produced by the oscillatory motion of the particles in a medium creating region of compression and rarefaction (Sanders, 2007).

Transducer:

This is a device which converts electrical energy to mechanical energy and vice versa. It comes in different frequencies- typically 2.5, 3.5, 5, 7 and 10 MHz with decrease in penetration as frequency increases. Transducers can come in many formats which includes- linear array, vector, sector and curved array and can also be classified based on the purpose such as transabdominal, transvaginal, transoesophageal, transluminal and transcardiac transducers.

Brightness Mode:

This is one of the ultrasound image displays. Here the amplitude modulated signals are converted into dots, which vary in brightness depending on the strength of the returning echo.

Gestational age:

The gestational age is the period of time from the day of conception to the day of delivery. The gestational age is estimated to be 40 weeks from the date of last menstrual period to the time of delivery.

Trimesters:

Trimesters means three months. Pregnancy is subdivided into three trimesters. The first trimester starts from the first month to the third months of the pregnancy while second trimester starts from the fourth month to the sixth month. The third trimester starts from the seventh month to the ninth month. Fetal Neck:

The fetal neck is the part of the body that connects the head to the thorax. It serves as a conduit to several organs and contains muscles, nerves, vascular bundles and the cervical spines.

CHAPTER TWO

LITERATURE REVIEW

2.1: Sonographic Anatomy of the Fetal Neck.

According to Mernagh et al., 1999, when attention is paid to the details of normal fetal head and neck anatomy, abnormalities that normally would be missed at prenatal ultrasonography can be routinely diagnosed. The fetal neck which connects the head to the thorax can be visualized sonographically from 11th weeks of gestational age. Fetal neck is routinely examined in the sagital and transverse axial views. In sagital view from the anterior aspect of the neck to the posterior aspect, the neck has tiny linear echogenic border which represent the anterior fetal skin of the neck. The skin is immediately followed by an isoechoic structure which represents the anterior subcutaneous tissue. This is immediately followed by two tiny tubular structures that represent the fetal trachea and esophagus although these two structures may not be visualized all the time as this depends on the resolution of the ultrasound machine. Posterior to these are double echogenic structure with an echopenic centre which represents the cervical vertebrae. Posterior to this is an isoechoic structure which represents the posterior subcutaneous tissue layer which is then followed by a tiny echogenic line which represents the skin of the neck.



Figure 1: Longitudinal image of the fetal neck

In transverse view, the fetal neck appears as a circular structure with a tiny echogenic rim which represents the skin of the neck. This is followed by an isoechoic structure which represents the subcutaneous tissue of the neck. Centrally, the fetal neck has an echogenic roughly rounded mass with posterior acoustic shadowing with an echopenic centre which represents the cervical spine.



Figures 2: transverse image of the fetal neck

Sonograms showing the anatomy of the fetal neck. (S= Skin, ST= Subcutaneous tissue, C= Cervical spine, O= Esophagus).

2.2: Shortcomings of the traditional age predictors.

Gestational age determination are usually done by the use of traditional predictors of gestational age which includes- Gestational sac diameter (GSD), Crown rump length (CRL), Biparietal diameter (BPD), Abdominal circumference (AC) and Femur length (FL) measurements. Many literatures abounds which points to the shortfall of these predictors especially as pregnancy progresses to third trimester.

Johnsen et al (2006) in their work "Longitudinal reference chart for growth of the fetal head, abdomen and femur" using regression analysis and multilevel modeling as statistical tool found that the reference percentiles for the growth of mean abdomen diameter (MAD), abdominal circumference (AC) and femur length (FL) show continuous growth in weeks 10-40 weeks while biparietal and head circumference show slight blunt growth towards the end of pregnancy. They also found that maternal weight has positive effect on all the variables (HC, FL, BPD and MAD) while maternal height has positive effect on FL, AC, BPD and HC.

Simic et al (2010) in their work "Maternal obesity is a potential source of error in mid trimester ultrasound estimation of gestational age" noted a discrepancy of more than 7 days between menstrual date in 25% of women and is more common in cases with BMI > 30, in whom the estimated due date is often postponed.

Hadlock et al (1984) stated that fetal biometry in the third trimester is subject to much greater individual size variation than in second trimester; its accuracy for gestational age assignment is reduced considerably, and estimates may have confidence intervals of plus or minus 3 weeks.

Synnove et al (2004) in their prospective cross sectional study of fetal age assessment based on ultrasound head biometry and the effect of maternal and fetal factors found that using BPD and HC before 20 weeks, the new chart has 3-8 days higher gestational age assessment that the chart presently in use and less than 1 day difference compared to other recent established charts. They therefore, concluded that maternal and especially fetal factors affect gestational age assessment using BPD but less for HC method.

Johnsen et al (2005) in their prospective cross sectional study to assess the effect of fetal and maternal factors on fetal age assessment based on femur

length at 10-25 weeks of gestation and femur length and head circumference ratio noted that maternal age modestly influence gestational age assessment whereas smoking, height, body mass index, multiparity, fetal sex, cephalic index and breech presentation have no impact. Only fetal sex influence FL and HC ratio.

It is because of the fetal and maternal factor that Gottlieb et al (2008) stressed the need for ancillary biometric and non biometric measurement in the prediction of gestational age as these helps to reduce biological variability between fetuses. Therefore the need to generate fetal neck circumference and area charts in second and third trimesters as ancillary biometric measurement to the traditional predictors cannot be over emphasized.

Although few literatures in Japan and United States of American were documented on the fetal neck circumference and area, none has been document in Nigeria or Africa population in the reviewed literatures to the researcher's best of knowledge.

2.3 Fetal Neck Circumference and Area as Predictors of Gestational Age.

Hata et al (1988) in Japan did the first study on the ultrasonographic measurement of the fetal neck circumference and area correlated with gestational age. They used long, medium and short (LMS) chart marker lite program, version 2.3, by Cole and Pan as statistical tools. They found out that mean fetal neck circumference (FN-C), fetal neck area (FN-A), fetal neck anteroposterior diameter (FN-APD) and fetal neck transverse diameter (FN-TD) all correlated well with gestational age.

Garry et al (1992) in their work on neck circumference and area measurement in second trimester fetuses with Down's syndrome stated that the relationship between fetal neck circumference and area and gestational age is linear for normal fetus. David et al (2007) who conducted a similar study titled "Nomograms of fetal neck circumference and area throughout gestation" in New York using the cubic polynomial model (mean FNC (cm) = -11.85 + 1.687x GA (weeks) – 0.043 x GA² + 0.0004951 x GA³), (Mean FNA (cm²) = 37.29 - 7.0 x GA + 0.4717 x GA² – 0.01245x GA³x 0.0001222 x GA⁴) found also that there is a linear correlation between the mean fetal neck circumference and area with gestational age.

2.4. Relationship between Fetal Neck Circumference and Area with other Biometric Parameters.

David et al (2007) found in their study that the fetal neck circumference and area correlated significantly and strongly with biparietal diameter, head circumference, abdominal circumference, humeral length, femur length, transcerebellar diameter and sonographically estimates gestational age. Garry et al (1992) noted in their work that the relationship between fetal neck circumference and area and other fetal biometric parameters (BPD, HC, AC and FL) were linear.

2.5. Relationship between Fetal Neck Circumference and Area and Fetal Anomaly.

Measurement of fetal neck circumference and area are useful in detecting some fetal abnormalities. Hamid-Sowinska et al (2011) in their work on congenital high air way obstruction syndrome noted that early diagnosis as from 26 weeks of gestation using ultrasound can help in detailed fetal assessment and an adequate postnatal intervention for establishing fetal airways. Mong et al (2008) in their work "Congenital high airway obstruction syndrome: MRI/US findings, effect on management outcome" noted that MRI demonstrates large lung volumes, increased lung signal intensity, inverted diaphragm and dilated fluid filled lower airways, and usually identifies the obstruction level. They further stated that the degree of correlation between MRI and tertiary prenatal ultrasound is high although congenital high airway obstruction syndrome is frequently misdiagnosed on screening ultrasound scan. Liberty et al (2013) noted that fetal larynx and pharynx can be evaluated thoroughly using 2D-and 3D-ultrasound modalities. They further stated that knowledge of normal anatomy, function and biometry may prove useful in the evaluation of the anatomical or functional pathology involving the upper respiratory tract and that recognition of the anatomical anomalies may enhance fetal intervention such as balloon placement in cases of diaphragmatic hernia. Richard and Farah (1994) noted that laryngeal obstruction which is a life threatening condition can sometimes be diagnosed by prenatal ultrasound examination. They noted that dilation of the trachea is an important finding in this case and that the trachea increases from a mean of 2.4 mm at 18 weeks to 4.6 mm at 38 weeks of gestation. They concluded that early visualization of a dilated trachea may allow better management of fetus with laryngeal obstruction. Tez et al (2005) found that the diameter of the pharynx increases from 4.5 ± 0.53 mm at 16 weeks to 9.1 ± 1.72 mm at 36 weeks and suggests that 21-30 weeks of gestational age might be the optimum time for evaluating the fetal pharynx for pathology. Cynthia and Anderson (2009) found out that using only nuchal translucency screening test, there is a detection rate of approximately 70-71% for Down's syndromes with a 3-3.5% false positive. Bahado et al (2005) also noted that increase in nuchal translucency greater than 3.5mm is associated with major congenital heart defect, defect of great vessels, fetal malformation, dysplasia, deformation, disruption and genetic syndromes. Comstock et al (2006) also noted that ultrasonography may be used for screening in the second trimester either alone or as an adjunct to maternal serum tests. They further added that markers of fetal chromosomal abnormalities such as facial cleft, micrognathia and atrioventricular septa defect may be detected by ultrasonography. Olson et al (2000) noted that nuchal fold thickness is affected by gestational age and fetal neck position and correction of these variables may improve the accuracy of the nuchal fold thickness measurement in screening of fetal chromosomal anomaly. David et al (2007) also noted that in addition to detecting subtle soft tissue changes in the upper posterior part of the neck used in detecting trisomy 21, fetal neck circumference and area can be used in detecting presence of nuchal cord(s).

Fetal neck circumference and area can be used as predictors of gestational age and also in detecting congenital anomalies of the neck. They also serve as pointers to other anomalies like heart defect, defect of great vessels, fetal malformation, deformation, dysplasia and genetic syndromes. Hence the need of nomograms of fetal neck circumference and area measurements in second and third trimesters in our locality.

CHAPTER THREE

RESEARCH METHODOLOGY

3.1 Research Design

This is a prospective cross sectional study

3.2 Equipment

The equipment used in this study is Mindray DP-50 ultrasound machine with 3.5 MHz curved linear array transabdominal transducer, a product of Shenzhen Mindray Biomedical Electronics Co, Ltd China which was manufactured in 2012.

3.3 Duration of Study

This study was carried out for a period of fifteen months from September 2012 to November 2013,

3.4 Study Population

The population of this study comprises of all pregnant women with normal singleton gestation between 14-40 weeks of gestation referred to Braithwaite Memorial Specialist Hospital, Portharcourt within the period of the study. The age range was chosen in conformity with the trimesters being studied and also when the cervical bone which serves as a landmark for the measurements can be well demonstrated on scan.

3.5 Sampling Technique.

Convenience sampling method was used. This is because only the women who met the inclusion criteria in the study population within the time of the study were included in the study.

3.6 Sample Size

The $n = \underline{N}$

1 + N (e)² (Yamane, 1973)

Where

n.....sample size

N.....population size

e.....percentage error (percentage error at 95% level of confidence =0.05)

Using the total number of patients that were referred for obstetric scan in radiology department of Braithwaite Memorial Specialist Hospital (BMSH) Portharcourt between Dec 2011 and May 2012, a population of 1,360 patients was obtained and this gives a sample size of 390 patients. This number was increased to 723 in order to increase the sensitivity of the study.

3.7 Subject Selection Criteria

Inclusion Criteria

Subjects with the following under listed attributes were included in the study as there is no evidence of complication in their pregnancy

- 1. Known last menstrual period (LMP)
- 2. Viable singleton fetus.
- 3. Intact amniotic membrane.
- 4. No neck anomaly.
- 5. No previous history of adverse fetal outcome.
- 6. Patient not in labour.

7. No polyhdramnios or oligohydramnios

8. No growth retardation.

Exclusion Criteria.

Subject with the following under listed attributes were excluded from the studies because the following may have influence on the normal development of the neck.

- 1. Fetus with chromosomal anomaly.
- 2. Twin gestation.
- 3. Fetal growth retardation
- 4. Patient with poly- or oligohydramnios

3.8 Ethical Clearance/ Informed Consent.

Ethical clearance was obtained from Braithwaite Memorial Specialist Hospital ethical committee while informed consent was obtained from the subject before the study commences.

3.9 Scanning Technique

Transabdominal longitudinal scan was performed on the subject under the supervision of a consultant radiologist with more than ten years of experience. The patient lie supine on the couch with the abdomen barred and the coupling gel was applied to ensure good ultrasound wave transmission through the patient. Image of the fetal neck is obtained in neutral position in profile with the head and thoracic spines. The fetal neck circumference and area were measured during the transverse sonographic scanning of the fetal neck at an angle perpendicular to the cervical spine at mid point which corresponds to the level at which fetal neck appears largest with the aid of electronic caliper (David et al, 2007) as in figure 1 below.



Figure 2. Diagram of fetal neck circumference and area measurement.

Transverse neck ultrasound of a 20 weeks old fetus. Note fetal spine which cast posterior shadows. The fetal skin and subcutaneous fat are also noted.



Figure2: Schematic Diagram of Fetal Neck Circumference and area measurements.

The biparietal diameter (BPD) is imaged in the transaxial plane of the fetal neck at the level of thalami in the midline, equidistance from the temporoparietal bone and usually the calvum septum pelucidium anteriorly. Measurement was then taken by placing a caliper on the outer edge of the proximal calvarium wall and on the inner edge of the distal calvarium wall (Saunders, 2000). Also the head circumference HC was measured on the same plane by placing a caliper on the outer edge of the calvarium and a computer generated ellipse was adjusted to fit round the head without including the scalp. The femur length (FL) was measured by placing the caliper from one end of the osseous portion of the femur of the other end disregarding bone curvature (Saunders, 2000). The abdominal circumference (AC) measurement was obtained by placing a caliper on the outer edge of the abdomen and using the inbuilt ellipse to adjust it to fit round the image of the abdomen in a plane slightly superior to the umbilicus at the level of the fetal liver, using the umbilical portion of the portal vein as the landmark.

3.10: Pilot Study:

The researcher and a senior sonographer conducted a pilot study to determine the reliability of fetal neck circumference and area measurements. When a patient who met the inclusion criteria fills the consent form after explaining the procedure to her, each of them scanned her and generates two measurements of fetal neck circumference and area. These procedures were done under the supervision of a consultant radiologist so as to reduce intra- and inter observer variations.

3.11 Statistical Analysis:

Data were analyzed using descriptive statistics and Microsoft TM Statistical Software Package for Social Sciences (SPSS). Paired- Samples T Test was used to analyze the intra class correlation coefficient for observer variations. Mean, standard deviation and range were used in the generation of nomogram of fetal neck circumference and area. Linear regression analysis and Pearson correlation coefficient were used in establishing relationship between fetal neck circumference and area with other biometric parameters like FL, BPD, AC and HC. Independent- Samples T Test for equality of mean was used to check for statistical significant difference between the Caucasians and Nigerians.
CHAPTER FOUR

RESULTS

Table 1 shows high correlation coefficient values for both the intra and inter observer reliability which implies that both fetal neck circumference and area are reliable and reproducible within and between sonographers.

Table 1: Intra- and Inter rater reliability of Sonographic measurement of Fetal Neck

Observer	Intra- and Inter rater reliability		
Intra observer	Intra rater reliability		
Sonographer 1	FNC = ICC (2,1) = 0.93		
	FNA = ICC (2,1) = 0.90		
Intra observer	Intra rater reliability		
Sonographer 2	FNC = ICC(2,1) = 0.86		
	FNA = ICC(2,1) = 0.83		
Inter observer	Inter rater reliability		
Both sonographers	FNC = ICC (2,1) = 0.89		
	FNA = ICC (2,1) = 0.85		

Circumference and Area.

Note: ICC = Intra Class Coefficient; ICC (2, 1) = Intra class correlation coefficient between the first and second measurement obtained by each sonographer (intra observer) and between the first measurements obtained by both sonographers (inter observer). **Table 2**. Shows an increase in fetal neck circumference from 6.38cm at 14 weeks gestation to 14.34cm at 40 weeks gestation. Fetal neck circumference therefore increases with increase with gestational age.

Table 2. Distribution of fetal neck circumference according to gestational age obtained form maternal last menstrual period (LMP).

GA(wks)	Ν	MEAN	SD	MIN (cm)	MAX (cm)
		FNC(cm)			
14	38	6.38	1.92	4.48	9.67
15	26	5.50	1.18	3.92	7.49
16	31	6.29	1.72	4.26	11.20
17	27	7.29	0.88	4.97	9.65
18	24	8.15	1.47	6.53	11.66
19	30	8.75	1.38	5.94	11.76
20	25	8.91	0.84	6.77	10.56
21	20	9.41	0.52	8.14	10.26
22	30	9.66	0.71	7.90	11.46
23	21	10.17	0.85	7.61	11.56
24	23	10.36	1.33	7.85	13.76
25	23	10.64	1.02	8.72	13.06
26	20	10.53	1.65	6.14	13.06
27	21	11.41	0.81	9.93	12.80
28	41	10.02	2.40	3.92	13.40
29	27	11.54	1.17	7.68	13.56
30	34	11.93	0.92	10.08	13.43
31	29	12.10	0.80	10.46	13.63
32	29	12.29	1.03	9.82	14.46
33	31	12.56	0.88	10.73	15.00
34	33	12.76	0.93	10.80	14.43
35	35	13.40	1.19	10.46	16.36
36	17	13.32	1.08	10.90	15.10
37	28	13.66	0.83	12.46	15.40
38	13	13.38	1.19	10.60	15.60
39	21	13.95	0.69	12.93	15.16
40	24	14.34	1.28	11.13	16.33

Table 3 shows that the mean fetal neck area increases from 3.63 ± 2.20 (cm²)

at 14 weeks gestation to 16.05 ± 2.77 (cm²) at 40 weeks gestation. Fetal neck area therefore increases with increase in gestational age.

Table 3: Distribution of fetal neck area according to gestational age obtained from maternal last menstrual period (LMP).

GA	N	MEAN FNA(cm ²)	SD	MIN (cm ²)	MAX (cm ²)
(wks)					
14	38	3.63	2.20	1.89	8.10
15	26	2.49	1.06	1.22	4.46
16	31	3.36	1.98	1.44	10.01
17	27	4.40	1.17	1.87	7.42
18	24	5.45	2.00	3.39	10.83
19	30	6.32	1.92	2.81	11.00
20	25	6.56	1.18	3.65	8.85
21	20	7.09	7.95	5.27	8.37
22	30	7.49	1.09	4.97	10.49
23	21	8.39	1.32	4.62	10.66
24	23	8.72	2.29	4.90	15.03
25	23	9.04	1.84	5.95	13.60
26	20	9.25	2.37	3.00	13.53
27	21	10.44	1.46	7.85	12.70
28	41	8.39	3.25	1.22	13.70
29	27	10.70	2.04	4.68	14.63
30	34	11.35	1.72	8.14	14.43
31	29	11.68	1.56	8.68	14.73
32	29	12.12	1.90	8.74	16.66
33	31	12.58	1.74	9.15	17.83
34	33	13.00	1.84	9.37	16.23
35	35	14.35	2.58	8.69	21.53
36	17	14.20	2.24	9.58	18.10
37	28	14.83	1.81	1.23	19.00
38	13	14.07	2.16	8.95	19.33
39	21	15.51	1.66	13.30	19.00
40	24	16.05	2.77	9.95	21.16

Table 4 shows the correlations between the fetal neck circumference and area with gestational age obtained from maternal last menstrual period and also with gestational age obtained from combined fetal biometric parameters. From the table, it can be deduced that there are strong correlation between fetal neck circumference and area with gestational age obtained from maternal last menstrual period and that from combined fetal biometric parameters which includes femur length , biparietal diameter, abdominal circumference and head circumference. This is depicted by the high values of Pearson correlation coefficient which are 0.872 and 0.941 for fetal neck circumference and 0.879 and 0.938 for fetal neck area, it can also be noted that the fetal neck circumference and area correlates stronger with gestational age obtained from combined fetal biometric parameters than with gestational age obtained from maternal last menstrual period (LMP). **Table 4:** Correlation of fetal neck circumference and area with gestational age obtained from maternal LMP and gestational age obtained from combined fetal parameters.

Correlation with GA by LMI	FNC	FNA
Pearson correlation coefficie	R = 0.872	R = 0.879
p-values	P < 0.01	P < 0.01
Number of measurements (723	723
Correlation with GA obtaine From combined fetal	FNC	FNA
parameters		
Pearson's correlation coeffic	R = 0.941	R= 0.938
p-values	P < 0.01	P < 0.01
Number of measurements (723	723

Note: FNC = Fetal neck circumference.

FNA = Fetal neck area.

GA = Gestational age

Table 5 shows that fetal neck circumference increases from 4.77 ± 0.34 cm at 14 weeks of gestation to 14.38 cm at 40 weeks of gestation. Fetal neck circumference therefore increases with increase in gestational age.

Table 5.Distribution of fetal neck circumference (FNC) according to gestational age obtained from combined FL, BPD, AC and HC parameters.

SECOND TRIMESTER (14-27 WKS)					
GESTATIONA	NO OF	MEAN	STANDARD	MINIMUM	MAXIMUM
L AGE (wks)	CASES	FNC	DEVIATION	FNC (cm)	FNC (cm)
		(cm)			
14	29	4.77	0.34	3.40	5.36
15	25	4.95	0.73	3.92	6.23
16	20	5.90	0.43	5.17	6.81
17	24	6.88	0.31	5.95	7.46
18	29	7.15	0.59	5.65	9.12
19	27	7.96	0.81	6.16	9.26
20	23	8.55	0.74	7.01	9.90
21	23	8.92	0.60	7.81	10.23
22	22	9.59	0.82	7.06	10.56
23	26	9.84	0.64	8.73	11.50
24	22	10.00	0.69	8.40	11.30
25	28	10.29	0.70	9.06	11.83
26	21	10.51	0.68	9.47	11.66

27	24	10.94	0.83	9.28	12.06		
TOTAL	343						
Ove	rall mean f	fetal neck circ	cumference =	8.30 ± 0.890	cm		
	TH	IRD TRIMES	TER(28-40 WI	KS)			
28	41	11.00	0.73	9.82	12.93		
29	28	11.16	0.86	9.23	12.90		
30	22	11.61	0.57	10.44	12.43		
31	31	11.81	0.86	10.08	13.43		
32	32	12.49	0.85	10.30	14.06		
33	41	12.56	0.83	10.80	14.33		
34	37	12.86	0.89	10.90	15.00		
35	24	13.15	0.92	11.03	15.10		
36	22	13.25	0.69	12.10	14.46		
37	35	13.44	1.19	11.63	16.46		
38	21	13.72	1.07	12.06	16.33		
39	24	13.87	1.19	12.40	15.60		
40	22	14.38	0.76	13.50	15.83		
TOTAL	380						
Overall mean fetal neck circumference =12.71 ± 0.87cm							

Table 6 show that mean fetal neck area increases from 1.88 ± 0.26 cm² at 14 weeks gestation to 15.55cm² ± 1.68 cm² at 40 weeks of gestation. Fetal neck area therefore increases with increase in gestational age

Table 6: Distribution of fetal neck area (FNA) according to gestational age obtained from combined FL, BPD, AC and HC parameters.

SECOND TRIMESTER (14-27 weeks)					
GESTATIONA	NO	MEAN FNA	STANDARD	MINIMUM	MAXIMU
L AGE (WKS)	OF	(cm ²)	DEVIATION	FNA(cm ²)	М
	CASE				FNA(cm ²)
	S				
14	29	1.88	0.26	0.92	2.28
15	25	1.97	0.57	1.22	3.08
16	20	2.77	0.40	2.12	3.68
17	24	3.68	0.28	2.83	4.43
18	29	4.40	0.83	2.53	6.61
19	27	5.04	0.88	3.08	6.85
20	23	6.10	1.16	3.92	7.86
21	23	6.38	0.85	4.86	8.30
22	22	7.41	1.16	3.97	8.85
23	26	7.69	1.04	6.08	10.60
24	22	8.08	1.13	5.63	10.19
25	28	8.44	1.19	6.53	11.10
26	21	9.03	1.14	7.14	10.83
27	24	9.61	1.50	6.86	11.66
TOTAL	343				

Overall mean fetal neck area =5.89 ± 0.88 cm ²								
	THIRD TRIMESTER (28-40 weeks)							
28	41	9.79	1.20	8.15	13.33			
29	28	9.95	1.52	6.82	13.23			
30	22	10.74	1.06	8.63	12.33			
31	31	11.07	1.78	6.87	14.43			
32	32	12.46	1.65	8.47	15.56			
33	41	12.55	1.60	9.30	16.33			
34	37	13.20	1.80	9.44	17.83			
35	24	13.81	1.92	9.64	18.10			
36	22	13.94	1.44	11.63	16.66			
37	35	14.44	2.60	10.80	21.53			
38	21	15.01	2.36	11.56	21.16			
39	24	15.51	2.58	12.60	19.33			
40	22	15.55	1.68	14.60	19.93			
TOTAL	380							
Overall fetal neck area = 12.92 ± 1.78 cm ²								

Table 7 shows the relationship between fetal neck circumference and area with gestational age. These relationships can be predicted using these model equation: Gestational age (y) = $0.272 + 0.257 \times FNC$ for fetal neck circumference and Gestational age (y) = $11.790 + 0.016 \times FNA$ for fetal neck area. **Table 7**: Relationship between fetal neck circumference (FNC) and fetal neck area (FNA) and gestational age with its predicted model equations.

Parameters	Fetal neck circumference(FNC)		Fetal neck area (FNA)		
	Value	Sig (p-value)	Value	Sig (p-value	
R	0.941	0.000	0.938	0.000	
R ²	0.885	0.000	0.880	0.000	
F	5532.665	0.000	5310.541	0.000	
CONSTANT	0.272	0.000	11.790	0.000	
GA BY FP	0.257	0.000	0.016	0.000	
MODEL EQUATION	y =0.272 + 0.257(FNC)		y = 11.790 +	0.016 (FNA	

NOTE: y = Gestational age.

F = F- statistics which is the ratio of regression mean square to residual mean square.

GA BY FP = Gestational age by combined fetal parameters (FL, BPD, AC and HC).

Figure 3 is a scatter diagram showing a linear relationship between fetal neck circumference and gestational age and can serve as a reference graph for determining the gestational age using fetal neck circumference.



FIGURE 3: The relationship between fetal neck circumference and gestational age obtained from combined fetal biometric parameters.

Figure 4 is a histogram showing that fetal neck circumference data are normally distributed and that the predicted model fit well.



Dependent Variable:Gestational age

Figure 4: Fetal neck circumference in a normal distribution curve.

NOTE: Gestational age = Gestational age obtained from combined fetal

parameters.

Figure 5 is a probability plot which shows that the data fits the predicted model equation well.



Normal P-P Plot of AVE_FNC

Figure 5: P-P Plot of fetal neck circumference.

Note: AVE_FNC = Average fetal neck circumference.

P-P PLOT = Probability – Probability plot.

Figure 6 is a scatter diagram showing that there is a linear relationship between fetal neck area and gestational age and can be used as a reference graph for determining the gestational age using fetal neck are.



Figure 6. The relationship between fetal neck area and gestational age obtained from combined biometric parameters.

Figure 7 is a histogram showing that fetal neck area is normally distributed.



Dependent Variable: GESTATIONAL AGE

NOTE: Gestational age = Gestational age obtained from combined fetal parameters

Figure 8 is a P-P plot showing that the predicted model equation used fitted well.



Normal P-P Plot of AVE_FNA

Note: P-P Plot = Probability- Probability Plot.

AVE-FNA = Average fetal neck area.

Figure 8: P-P Plot of fetal neck area

Table 8 shows that there is high correlation between fetal neck circumferences with other biometric parameters like FL, BPD, AC and HC.

Table 8: Regression analysis showing the relationship between fetal neck circumference and FL, BPD, AC and HC.

Mo	odel	Value	Sig (p-value)	Model Equation
1	R	0.931	0.000	$y = a + b_1(X_1)$
-	Constant	35.714	0.000	FNC= 35714 +1.379(FL)
	FL(mm)	1.379	0.000	
2	R	0.947	0.000	$y = a + b_1(X_1) + b_2(X_2)$
	Constant	23.739	0.000	FNC = 23.739 + 0.409(FL) + 0
	FL(mm)	0.409	0.000	
	BPD (mm)	0.914	0.000	
3	R	0.949	0.000	$y = a + b_1(X_1) + b_2(X_2) + b_3(X_3)$
	Constant	26.704	0.000	FNC = 26.704 + 0.215(FL) +0. (BPD) + 0.157(AC)
	FL (mm)	0.215	0.000	
	BPD (mm)	0.475	0.011	
	AC(mm)	0.157	0.000	
4	R	0.954	0.000	$y = a + b_1(X_1) + b_2(X_2) + b_3(X_3)$ + $b_4(X_4)$
	Constant	21.978	0.000	· · · · · · · · · · · · · · · · · · ·
	FL (mm)	0.065	0.426	y = 21.978 + 0.065(FL) +
	BPD (mm)	0.021	0.851	0.021(BPD) + 0.064(AC)
	AC (mm)	0.064	0.021	+ 0.259(HC)
	HC (mm)	0.259	0.000	

Table 9 shows that there is high correlation between fetal neck area and other

fetal biometric parameters like FL, BPD, AC and HC.

Table 9: Regression analysis showing the relationship between fetal neck areaand FL, BPD ACand HC.

Mo	odel	Value	Sig (p-value)	Model Equation
1	R	0.921	0.000	$y = a + b_1(X_1)$
	Constant	-124.949	0.000	FNA= -124.949 +21.172 (FL)
	FL (mm)	21.172	0.000	
2	R	0.934	0.000	$y = a + b_1(X_1) + b_2(X_2)$
	Constant	-316.938	0.000	FNA = -316.938 + 5.623(FL) + 14 659(BPD)
	FL (mm)	5.623	0.000	
	BPD (mm)	14.659	0.000	
3	R	0.941	0.000	$y = a + b_1(X_1) + b_2(X_2) + b_3(X_3)$
	Constant	-238.973	0.000	FNA = -238.973 + 0.523(FL) +3 (BPD) + 4.121 (AC)
	FL (mm)	0.523	0.011	
	BPD (mm)	3.099	0.000	
	AC (mm)	4.121	0.000	
4	R	0.943	0.000	$y = a + b_1(X_1) + b_2(X_2) + b_3(X_3)$ + $b_4(X_4)$
	Constant	-287.917	0.000	~ + (+)
	FL (mm)	-1.033	0.426	FNA = -287.917 -1.033(FL)
	BPD (mm)	-1.600	0.851	-1.600(BPD) + 3.159(AC) + 2.687(HC)
	AC (mm)	3.159	0.021	2.007(110)
	HC (mm)	2.687	0.000	1

Note: a= Constant, X₁= FL, X₂=BPD, X₃=AC, X₄=HC

Table 10 shows that there is linear relationship between fetal neck circumference and area with other fetal biometric parameters. Also there is fetal neck circumference and area increases with increase in gestational age.

Table 10: Relationship between gestational age, FL, BPD, HC, AC and Fetal neck circumference and area.

GA(wks)	FL(mm)	BPD(mm)	HC(mm)	AC(mm)	FNC(cm)	FNA(cm ²)
14	14.4	25.6	93.7	72.9	4.77 ± 0.34	1.88 ± 0.26
15	16.6	29	109.6	86.9	4.95 ± 0.73	1.97 ± 0.57
16	21.7	33	120.4	101.7	5.90 ± 0.43	2.77 ± 0.40
17	24.3	37.6	141.8	109	6.88 ± 0.31	3.68 ± 0.28
18	26.9	41	152	124	7.15 ± 0.59	4.40 ± 0.83
19	29.7	44.7	168.9	135.6	7.96 ± 0.81	5.04 ± 0.88
20	32.3	47.8	179	147.8	8.55 ± 0.74	6.10 ± 1.16
21	35.3	50.7	194.5	159.8	8.92 ± 0.60	6.38 ± 0.85
22	38.0	54.4	197	169.9	9.59 ± 0.82	7.41 ± 1.16
23	40.8	56.8	212.5	182.1	9.84 ± 0.64	7.69 ± 1.04
24	43	60	226	194.8	10.00 ± 0.69	8.08 ± 1.13
25	45.9	63	232.8	204	10.29 ± 0.70	8.44 ± 1.19
26	47.9	64.9	243	214.4	10.51 ± 0.68	9.03 ± 1.14
27	49.9	67.6	252.6	235.7	10.94 ± 0.83	9.61 ± 1.50
28	53	70.9	258.8	241	11.00 ± 0.73	9.79 ± 1.20
29	55	73.6	269.6	246.6	11.16 ± 0.86	9.95 ± 1.52
30	58	76	278	257.5	11.61 ± 0.57	10.74 ± 1.0
31	60	78.4	283.3	269.2	11.81 ± 0.8	11.07 ± 1.73
32	61.8	80.8	293	280	12.49 ± 0.85	12.46 ± 1.6
33	62	82	299	289.5	12.56 ± 0.83	12.55 ± 1.6
34	65.9	85	308	302.5	12.86 ± 0.89	13.20 ± 1.8
35	67.9	87	315.8	310.3	13.15 ± 0.92	13.81 ± 1.92
36	70.7	89.6	324.8	320.5	13.25 ± 0.69	13.94 ± 1.44
37	73	91.9	330.6	329.5	13.44 ± 1.19	14.44 ± 2.6
38	75	92.7	336.4	339.6	13.72 ± 1.07	15.01 ± 2.3
39	77.4	96.4	348.5	351.2	13.87 ± 1.19	15.51 ± 2.5
40	79.4	98.4	349	359.6	14.38 ± 0.76	15.55 ± 1.63

Table 11 shows that there is no significant statistical difference between the fetal neck circumference values obtained from this study and the study done by David et al on Caucasians (USA) while there is significant statistical difference between the fetal neck area values obtained from this study and the study done by David et al on Caucasians.

Table 11: Comparison between the mean fetal neck circumference and area values obtained from the Caucasians (USA) and values obtained from this study.

			t test for equality of mean				
Work (FNC)	Mean	Standard deviation	t	Degree Of Freedom	Significand	Mean Differenc	Standard er Difference
USA (N=720)	11.920	3.99041	1.595	46.424	0.117	1.49296	0.93591
Nigeriar (N=723)	n 10.427	8 2.77973					
Work (FNA)	Mean	Standard Deviations	t	Degree Of Freedom	Significand	Mean Differenc	Standard er Difference
USA (N=720)	12.6389	7.52688	2.019	41.126	0.050	3.36074	1.66487
Nigeriai (N=723)	9.2778	4.26357					

CHAPTER FIVE

DISCUSSION AND CONCLUSION

5.1 Discussion.

5.11 Measurement of Fetal Neck Circumference and Area.

Ultrasound scanning is operator dependent and experience has influence in the accuracy of ultrasound measurement. According to Callen (2008), ultrasound accuracy depends greatly on the skill of the person performing the exam and the quality of the images, not to mention the size of the patient and the fetal position. This assertion was in agreement with Hadlock et al (1991). In this study, measurements of fetal neck circumference and area were done under the supervision of a consultant radiologist with more than 10 years of experience in obstetric scanning. Measurements of fetal neck circumference and area show high values of intra and inter rater reliability which implies that the fetal neck circumference and area can be objectively measured, reproducible and reliable. This is in keeping with the finding of Campbell (1993) which states that when choosing the optimal parameter for estimating gestational age, it is essential that the structure has little biological variation, and can be measured with a high degree of reproducibility.

Nomograms of Fetal Neck Circumference and Area Measurements.

Reference range tables for fetal neck circumference and area were generated using gestational age obtained from maternal LMP and gestational age obtained from combined fetal biometric parameters like FL, BPD, AC and HC. Both tables show linear increase in fetal neck circumference and area with increase in gestational age. This is in conformity with the findings of David et al (2007), Garry et al (1991) and Hata et al (1988) which found a linear relationship between fetal neck circumference and area with increase in gestational age. So by implication, these parameters can serve as good predictor of gestational age. For FNC, the mean FNC at 40 weeks of gestation are 14.34 ± 1.28 cm and 14.38 ± 0.76 cm for gestation by maternal LMP and gestation by combined fetal biometric parameters respectively. Also mean FNA at 40 weeks is 16.05 ± 2.77 cm² and 15.55 ± 1.68 cm² for gestational age by maternal LMP and combined biometric parameters respectively.

These values are closely related with minimal differences, although for the purpose of this work, nomograms obtained using gestational age from combined fetal biometric parameters were adopted because it has stronger correlation than the one obtained from maternal LMP. So gestational age used subsequently refers to gestational age obtained from combined fetal biometric parameters like FL, BPD, AC and HC. When compared with the values obtained from combined fetal parameters on Caucasians (USA) which is 18.52 cm and 27.86 cm² for FNC and FNA respectively, we noticed high values for the Caucasians. These noticeable differences were subjected to test for significant using independent sample t- test which show no statistical significance difference between the two populations in FNC while there is statistical difference between the two population in FNA (p=0.05).

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5.12: Fetal Neck Circumference (FNC).

Fetal neck circumference shows a linear increase with increase in the gestational age. It also shows strong correlation with other biometric parameters like femur length, biparietal diameter, abdominal circumference and head circumference which are regarded as gold standard for measuring gestational age. This implies that fetal neck circumference can be reliably used in the estimation of gestational age in the second and third trimesters. The mean fetal neck circumference values for second, third and combined trimesters measures 8.30 ± 0.89 cm, 12.71 ± 0.87 cm and 10.43 ± 2.77 cm respectively. These values are close to the values obtained from the work done by David et al (2007) on Caucasians which were 8.72 ± 0.78cm, 15.36 ± 1.55cm and 11.92 ± 3.99cm respectively. These in all, show insignificant statistical difference in the fetal neck circumference measurement between the two studies. This is confirmed from t-test for equality of mean where the pvalue of 0.117 (p >0.050) was obtained which implies that there is no statistical significant difference between the two groups studied. The implication of this is that the difference noted in the studies by Hata et al (1985) and David et al (2007) could be attributed to difference in sonographic resolution of the ultrasound machine used now compared to that used in the last two decades ago.

5.13: Fetal Neck Area (FNA)

Fetal neck area shows linear increase with increase in the gestational age which is in keeping with the findings of David et al (2007), Garry et al (1991) and Hata et al (1988). It also shows very strong statistical correlation with other biometric parameters like femur length, biparietal diameter, abdominal circumference and head circumference. So it can serve as a good predictor of gestational age.

In second, third and combined trimesters, mean fetal neck area measures 5.89 ± 0.88 cm², 12.92 ± 1.78 cm² and 9.28 ± 4.26 cm² respectively while the mean fetal neck area in second, third and combined trimesters in the work done by David et al (2007) measures 6.59 ± 1.17 cm², $19.14 \ 3.78$ cm² and 12.63 ± 7.53 cm² respectively. At 40 weeks, the mean fetal neck area from this study measures 15.55 cm² while the mean fetal neck area at 40 weeks from the study of David et al (2007) was 27.86 cm². These values show wide difference which could imply significant statistical racial difference and when it is subjected to test for equality of mean, we found that the p- value is 0.05 which implies that there is significant statistical difference between the two groups. This shows that the difference noted in the studies by Hata et al (1985) and David et al (2007) could as well be attributed to difference in race and not the sonographic resolution of the ultrasound machine used now compared to that used in the last two decades.

5.14: Relationship between fetal neck circumference and area and gestational age obtained from patient's LMP

Pearson's correlation coefficient of 0.87 and 0.88 for fetal neck circumference and fetal neck area respectively were obtained using gestational age obtained from maternal LMP. This figures show evidence of positive significant relationships although when compared with that from gestational age obtained

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from combined fetal biometric parameters, they show low positive significant relationship. The difference is more in the fetal neck circumference than in fetal neck area. This decrease could be attributed to irregularity in the menstrual cycle and variation in the ovulation date as noted by Walker et al (1988). Due to these differences in correlation coefficients, other statistical analyses were done using gestational age obtained from combined fetal biometric parameters. Also the choice of gestational age by combined fetal parameters was further enhanced by the fact that work on Caucasians (USA) in this topic used it and it therefore offers homogeneity in terms of comparing the works.

5.15: Relationship between fetal neck circumference and area and gestational age obtained from combined fetal parameters.

Pearson's correlation done using gestational age obtained from fetal biometric parameters (FL, BPD, AC and HC) gave correlation coefficients (R) of 0.941 and 0.938 for fetal neck circumference and fetal neck area respectively. These values show very strong positive statistical relationship but by way of comparison, fetal neck circumference show stronger statistical relationship than fetal neck area. Pearson regression analyses done using gestational age obtained from combined fetal parameters have large regression values which imply stronger relationship. The regression analyses therefore generated model equations for computing the fetal neck circumference ad fetal neck area as follows:

GA= 0.272 + 0.257 (FNC) with gestational age in weeks while FNC is in cm.

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GA= 11.790 + 0.016 (FNA) with gestational age in weeks while FNA is in cm². Gestational age in weeks can therefore be obtained by inputting the values of FNC and FNA for each week in the appropriate equation.

In order to verify whether the models are appropriate for the data, histograms of fetal neck circumference and fetal neck area were plotted and both fit well with the shape of a normal distribution curve which signifies that models predicted by the regression analyses fits well. This in conformity with the high regression values which signifies that the model fits the data well and that fetal neck circumference and area explains the variation in the gestational age. Further assessment was carried out on the validity of the model by plotting the P-P plots for both fetal neck circumference and fetal neck area and the results shows that the line fit very close to the 45^o line superimposed on it. The implication is that both models fit well and that the regression equations are valid.

5.16: Relationship between fetal neck circumference and area with fetal parameters (FL, BPD, AC and HC)

Relationship between fetal neck circumference and area with fetal parameters were tested using Pearson's correlation coefficient. For fetal neck circumference, values of 0.934, 0.947, 0.949 and 0.954 were obtained for FL, BPD, AC and HC respectively. These values indicate strong correlation. Pearson regression analysis was done to find the relationship between fetal neck circumference and fetal neck area with fetal parameters. It was found that both have high regression values showing strong relationship and that the model fit very well. Regression model equations were generated for fetal neck circumference and fetal neck area as follows:

FNC (cm) = 21.978 + 0.065(FL) + 0.021 (BPD) + 0.064 (AC) + 0.259 (HC).

FNA $(cm^2) = -287.917 + -1.033$ (FL) + - 1.600 (BPD) + 3.159 (HC) + 2.687 (AC).

FL, BPD, HC and AC are all in millimeter (mm). These equations show that the relationship is linear. Reference range tables for fetal neck circumference and area with fetal parameters were generated.

5.2 Conclusion.

Normal ranges of fetal neck circumference and area measurements with reference to gestational age have not been documented for Blacks (Nigerian) to the best of the researcher's knowledge. This study therefore provides the nomograms of fetal neck circumference and area measurement in the second and third trimesters for Blacks. There is statistical significant difference between Blacks (Nigerian) and the Caucasians (USA) in fetal neck area measurement while no statistical difference was noted in the fetal neck circumference measurement between the studied populations. Data presented in this study can be used objectively to rule out or confirm fetal anomaly which results in the decrease or increase in the fetal neck circumference and area in-utero for quick intervention.

5.3 Recommendations.

1. Fetal neck circumference and area measurements should be routinely done to assess fetal growth and well being.

- 2. Fetal neck anomaly which result in increase or decrease in fetal neck size will be routinely ruled out by measuring the fetal neck circumference and area.
- 3. Tables and graphs from this study should be used as indigenous charts for estimating gestational age in second and third trimesters.

5.4 Limitations of the study.

- Some fetus in antero-posterior position with flexed neck poses difficulty in getting an accurate fetal neck measurement as most of them give measurements less than the normal range.
- 2. Effect of maternal age and parity was not recorded in this study.

5.5. Area of further research.

1. Effects of fetal sex and maternal age and parity on fetal neck circumference and area measurements.

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RIVERS STATE HOSPITALS MANAGEMENT BOARD



Your Ref:

Our Ref:

BMSH/ADM/260 /VOL.13/17

13th February, 2014.

HOSPITAL ETHICAL COMMITTEE

Abonyi, Everistus Obinna Department of Radiology University of Nigeria **Enugu Campus**

ETHICAL APPROVAL

Research proposal tittle "Sonographic Correlation of Fetal Neck Circumference and Area with Gestational age in Port Harcourt Nigeria."

We refer to your letter dated 20th April 2013 requesting for Ethical approval of your research project tittle "Sonographic Correlation of Fetal Neck Circumference and Area with Gestational age in Port Harcourt Nigeria"

After a critical appraisal of your proposal by the Braithwaite Memorial Specialist Hospital Ethical committee and Research and Training, Approval is hereby given to you to commence your study.

Note the following:

- 1. The study can only be started after it is approved by the examining body.
- 2. The Hospital reserves the right to withdraw this approval if at any time during the conduct of the study you infringe on the ethical regulations of the hospital or the ethical right of your study subject. SEIVALS MANAGEMENT BO

P.M.B. 5064

Eori Harcourd

Andraine Memorial Specialist Hospital DR. AARON Secretary For Chairman **Ethical Committee**

APPENDIX 11

CONSENT FORM

SONOGRAPHIC CORRELATION OF FETAL NECK CIRCUMFERENCE AND AREA WITH GESTATIONAL AGE IN PORTHARCOURT, NIGERIA.

1. INTRODUCTION

You have been selected to participate in a study on this topic: sonographic correlation of fetal neck circumference and area with gestational age in Portharcourt, Nigeria. The information contained in this study will be of immense benefit to pregnant mothers as it will help in determining their gestational age especially in the second and third trimester where it has been found that other biometric parameters are suboptimal. Also, pregnant mothers participating in this study will benefit so much as the study will identify any abnormalities associated with the neck of their fetus so as to receive urgent and better treatment.

2. PARTICIPATION.

Participation in this study is completely voluntary. Even though you have been selected, you are at liberty to accept or reject the offer.

3. STUDY PROCEDURE/RISK.

Upon acceptance to participate, the participant will be interviewed and then scanned using an ultrasound machine. The scanning has been extensively documented to be of no risk to either the mother or the fetus.

4. COST IMPLICATION.

No additional cost is made for participating in this study. The money paid already for your normal scan has covered everything.

5. CONFIDENTIALITY

All information gathered will be treated with utmost confidentiality. The identity of the participant will not be required.

6. FEEDBACKS.

The researcher can be contacted at the radiology department of Braithwaite Memorial Specialist Hospital (BMSH) Portharcourt, Rivers State.

7. RESPONSE.

I have read the above (or somebody has read and explained the study to me). I understood the nature and benefits of the study and hereby give my consent to participate.

Date:í í í í í í í í í í ..

í í í í í í í í í Signature of participant

THANK YOU.

APPENDIX 111

RAW DATA

NOTE:

LMP: Last menstrual period.

GA-BY-LMP: Gestational age by last menstrual period.

FNC1 (mm): First measurement of fetal neck circumference in millimeter.

FNC2 (mm): Second measurement of fetal neck circumference in millimeter.

FNC 3(mm): Third measurement of fetal neck circumference in millimeter.

AVE FNC (mm): Average fetal neck circumference measurement in millimeter.

FNA 1(mm²): First measurement of fetal neck area in millimeter square.

FNA 2 (mm²): Second measurement of fetal neck area in millimeter square.

FNA 3 (mm²): Third measurement of fetal neck area in millimeter square.

AVE-FNA (mm²): Average fetal neck area in millimeter square.

FL (mm): Femur length in millimeter.

FL (wks): Femur length in weeks.

BPD (mm): Biparietal diameter in millimeter.

BPD (wks): Biparietal diameter in weeks.

AC (mm): Abdominal circumference in millimeter.

AC (wks): Abdominal circumference in weeks.

HC (mm): Head circumference in millimeter.

HC (wks): Head circumference in weeks.

FP-GA (wks): Gestational age by combined fetal biometric parameters.
			•					APPEN	III XIQI											
								RAW	DATA											
CZ	DATE OF	074	GABY	FNC1	FNC2	FNC3	AVE FNC	FNA1	FNA2	FNA3	a trin mate	FL,	L .	BPD	Dda	AC	AC	HC(m	4C(wk	FPGA
TH I	18/09/12	17-04-12	32	96.8	100	1000 BB	98.266667	(111111)	803	920	AVE FINA 874.33333	(mm)	1cmvv)	10.07	1 /cs/ VI	(mm)	1cu AA	m) 258	28	28
2		22-02-12	29	136	127	129	130.66667	1360	1290	1310	1320	70.8	36	60	35	332	37	333	38	36
ŝ		3/5/2012	19	90.8	16	90	90.6	656	629	645	653,33333	45.8	25	62	25	214	25	231	25	25
4		17-04-12	21	96.4	100	TOT	99.133333	742	803	805	783.33333	54.5	29	71.1	28	252	29	279	30	29
S		19-03-12	25	122	121	123	122	1180	1170	1200	1183.3333	64.4	33	86.5	34	288	33	306	34	33
9		5/5/2012	18	98.7	94.1	90.8	94.533333	775	705	655	711.66667	47.9	26	61.9	25	201	25	239	26	25
2		18-02-12	29	127	127	119	124.33333	1280	1280	1120	1226.6667	73.8	37	90.5	36	345	300	350	38	37
80		20-06-12	14	88.4	88.3	84.7	87.133333	618	620	571	603	31.9	20	51	21	159	21	174	20	20
6		12/6/2012	1.6	52.3	43.2	54.6	50.033333	217	148	237	200.66667	18	14	25	14	79.7	14	94.3	14	14
10		11/5/2012	18	103	98.7	96.7	99.466667	844	776	744	, 788	46.6	25	60.8	24	206	25	241	26	25
11		28-03-12	24	140	137	136	137.66667	1560	1480	1470	1503.3333	71.2	36	87	35	316	36	323	36	36
12		15-07-12	6	53.6	50	51.6	51.733333	227	199	212	212.66667	20.4	16	34.2	16	109	17	129	16	16
13		22-03-12	25	111	113	112	112	957	1010	1000	686	64	33	83	33	286	33	303	33	33
14 2	22-09-12	10/5/2012	18	97.2	106	104	102.4	731	891	858	826,66667	31.9	27	70.8	28	258	27	266	29	27
15 '		25-05-12	16	90	97	98	95	654	655	657	655,33333	46.5	25	60.8	24	217	26	228	24	25
16		17-05-12	17	94	96.8	98.9	96.566667	703	746	778	742.33333	48.9	26	63.7	25	211	26	246	26	26
17 "		1/3/2012	28	136	136	130	134	1360	1360	1330	1350	75.7	38	92.3	37	323	36	339	37	37
18		10/6/2012	14	98.8	90.8	100.5	96.7	800	790	840	810	42.7	24	55.6	23	180	23	203	22	23
19		7/3/2012	27	136	124	124	128	1360	1220	1220	1266.6667	71.2	36	89.1	36	323	36	322	36	36
20		19/5/12	18	72.6	68.3	70.7	70.533333	430	520	455	468.33333	27	18	40	100	125	18	144	18	18
21		12/5/2012	19	75.9	80.2	86.7	80.933333	548	560	600	569.33333	29	19	45	67	144	19	160	19	19
22 '		25-07-12	80	58.9	60.8	59.7	59.8	276	294	283	284.33333	17.9	15	33.6	16	104	16	125	16	15
23 '		19-07-12	6	66.6	70.8	70.3	69.233333	353	66E	393	381.66667	24.1	17	38,8	17	126	18	143	17	17
24 '		26-05-12	16	96.4	92	93.9	94.1	742	674	701	705.66567	45	25	64	25	188	24	240	26	25
25		16/6/12	16	52.3	43.2	54.6	50.033333	217	148	237	200.66667	18	14	25	14	79.7	14	94.3	14	14
- 36		1/4/2012	24	126	129	123	126	1260	1330	1200	1263.3333	62.4	32	83.4	33	289	33	303	33	33
27		1/4/2012	24	120	122	118	120	1140	1180	1100	1140	65.1	34	51.6	33	287	33	304	33	33
28'		12/2/2012	31	130	130	134	131.33333	1340	1340	1420	1366,6667	66.3	34	80.3	34	302	34	283	34	34
29		21/4/12	22	96.6	67	98.5	97.366667	775	795	062	786.66667	40.2	22	53	22	180	22	198	22	22

		1					-		-		-	-				0	000	00	50
30 '	6/12/2012	37	135	142	140	139	1420	1560	1550	1510	74.4	38	92.3	37	330	1/E	252	38	31
31 .,	10/6/2012	16	52.3	43.2	54.6	50.033333	217	148	237	200.66667	18	14	25	14	79.7	14	94.3	14	14
32 '	25/2/12	30	109	113	114	112	950	1010	1030	996.66667	60.5	30	74.3	29	264	31	287	31	30
33 24-09-12	2/1/2012	00	110	107	105	107.33333	959	916	872	915.66667	57.9	30	75.7	30	272	31	276	30	30
34 1	16-02-12	31	118	124	120	120.66667	1110	1220	1140	1156.6667	64.7	33	84.6	32	291	33	304	33	33
35	22-04-12	21	97.5	96.8	93.9	94.4	651	739	701	697	46.1	25	62.2	25	206	25	229	25	25
36	19/3/12	27	125	106	117	116	1146	1100	1090	1112	51.6	27	68	27	223	27	260	28	27
37 -	19-04-12	22	90.8	91.4	94.1	92.1	656	665	704	675	39.8	23	56.2	23	185	23	212	23	23
38 1	3/6/2012	28	52	54	51.3	52.433333	220	215	210	215	15	15	31.5	16	89.6	15	111	15	15
- 52	18-03-12	26	116	117	112	115	1070	1090	1000	1053.3333	53.8	28	72.3	28	237	28	260	28	28
40	9/1/2012	36	131	139	135	135	1370	1530	1450	1450	76.3	38	93.4	38	340	38	330	37	38
41 '	22-01-12	34	124	129	130	127.66667	1220	1330	1330	1293.3333	67.1	35	\$8.4	35	318	36	314	35	35
42 1	17-01-12	35	167	161	163	163.66667	2220	2070	2170	2153,3333	72.3	37	91.5	36	327	37	330	37	37
43	20-01-12	100	122	120	119	120.33333	1180	1130	1120	1143.3333	73.6	37	89.2	36	331	37	330	37	37
44	5/2/2012	32	106	109	101	105.33333	888	934	805	875.66667	43.4	24	59.9	24	182	23	255	24	23
45	17-01-12	35	131	136	122	129.66667	1370	1360	1190	1306,6667	76.2	38	93.9	38	342	38	332	38	38
46 26-09-12	6/2/2012	33	133	135	133	133.66667	1410	1420	1410	1413.3333	67.7	35	84.7	34	310	35	314	35	34
47 '	5/4/2012	24	97.5	92.9	106	98.8	757	687	900	781.33333	50.3	27	66.7	27	208	25	232	25	26
48 '	18-04-12	22	95.6	52	109	100.53333	790	820	810	806.66667	41.3	23	58.1	23	197	24	221	24	23
49 '	13-02-12	32	131	122	120	124.33333	1370	1180	1140	1230	64	33	83.2	33	282	32	305	34	33
50	30/5/12	17	73.3	69.4	70.1	70.933333	433	521	430	461.33333	27.3	18	42	18	126	18	146	100	18
51 '	9/3/2012	28	107	109	114	110	895	934	1030	953	60.2	31	75.9	30	279	30	276	30	30
52 '	9/2/2012	32	129	121	129	126.33333	1320	1170	1310	1266.6667	65.4	34	82.2	33	297	34	305	34	33
53 '	2/3/2012	29	114	113	116	114.33333	1040	1010	1080	1043.3333	59.1	31	76.5	30	274	31	300	33	31
54 '	25-02-12	30	101	107	94.6	100.86667	817	916	710	814.33333	59.5	31	78.1	31	274	31	279	30	31
55	13-02-12	31	105	111	123	113	869	972	1200	1013.6667	63.2	33	76.3	30	282	32	299	32	32
56	7/3/2012	28	104	106	99.2	103.06667	868	168	783	847.33333	62.8	32	80.8	32	283	32	304	33	32
57	20/6/12	16	52.3	43.2	54.6	50.033333	217	148	237	200.66667	10	14	25	14	79.7	14	94.3	14	14
58 -	21/12/11	39	139	140	135	138	1490	1480	1480	1483.3333	79	40	66	41	361	40	356	41	40
59'	28-05-12	17	67.5	70.4	72.6	70.166667	364	394	420	392,66667	32.4	20	46.8	20	159	21	182	20	20
60	27-03-12	25	100	110	109	106.33333	900	930	1000	943.33333	56.8	29	68.4	27	249	29	263	28	28
. 19	12/7/2012	10	34.3	36	31.9	34.066667	93.4	103	80.9	92.433333	10.7	14	23.3	14	69.4	14	89.3	14	14
62	12/5/2012	19	77.3	73.9	84.3	78.5	476	434	565	491.66667	40.3	23	49.5	20	181	23	197	21	22

- 51	- 10 10 10						T				-								
-	7107/5/9	10	115	105	116	112	1040	883	1080	1001	64.2	33	77.6	31	277	32	301	33	32
64 '	6/6/2012	15	68.5	67.8	73.9	70.066667	369	366	435	390	32.4	20	44.9	19	143	20	173	19	19
65 28/09/12	3/2/2012	33	123	123	118	121.33333	1190	1200	1110	1166.6667	72.8	37	92.2	37	334	37	332	38	37
66 '	14/2/12	32	125	120	116	120.33333	1240	1130	1080	1150	68.4	35	89.4	36	314	35	319	35	35
67 '	1/3/2012	29	112	104	111	109	666	859	976	944,66667	64.6	33	89.4	36	284	33	306	34	. 34
68 '	2/2/2012	34	113	120	116	116.33333	1030	1130	1080	1080	73.3	37	89.6	37	324	37	328	37	37
69	1/7/2012	12	60.1	58.6	58.6	59.1	287	272	274	277.66667	18.7	16	38.8	17	102	16	136	17	16
70	12/5/2012	19	98	93	110	102	800	800	800	800	40.2	23	55.8	23	184	23	216	23	23
71	15-02-12	19	113	109	111	111	1030	934	976	980	64	33	83	33	285	33	294	32	33
72 29-09-12	15/3/12	27	118	120	120	119.33333	1110	1130	1140	1126.6667	63	32	79.5	32	274	31	296	32	32
73	21/9/12	35	156	151	151	152.66667	1940	1810	1800	1850	77.3	39	92.2	37	360	40	349	40	39
74	24/2/12	35	130	130	129	129.66667	1340	1340	1310	1330	77.9	39	96.3	39	357	40	335	38	39
75 "	24/3/12	27	120	121	121	120.66667	1160	1170	1170	1166.6667	54.2	29	69.2	27	244	27	256	27	27
76	21-05-12	18	71.7	71.4	68.7	70.6	409	406	376	397	39.6	23	52.9	22	175	22	202	22	22
77	20-03-12	27	106	121	122	116.33333	888	1170	1190	-1082.6667	58.2	30	77.2	30	273	31	287	31	30
78 '	20/05/12	18	75.4	86.3	74.9	78.866667	452	593	447	497.33333	37.7	22	49.8	21	162	22	185	22	21
79 '	14/4/12	23	95.5	89.4	93.7	92.866667	725	636	669	686.66667	50.8	27	70.7	28	220	26	265	28	27
80 -	16/6/12	28	39.2	38.4	40.2	39.266667	122	120	126	122.66667	15	15	31.5	16	89.6	15	111	15	15
81 '	27/3/12	26	115	119	112	115.33333	1040	1120	1000	1053.3333	57.8	30	74	29	239	28	271	29	29
82 "	2/6/2012	17	70.6	69.6	70.7	70.3	432	519	455	468.66667	26.8	18	40.7	16	136	19	150	100	16
83	7/2/2012	33	127	126	122	125	1280	1240	1190	1236.6667	73.6	37	86.9	35	331	37	332	300	37
84	19-4-12	22	106	97.2	103	102.06667	888	752	848	829.33333	53.5	28	67.8	27	230	27	252	27	27
85 -	7/4/2012	24	96.3	95.2	85.5	92.333333	738	729	581	682.66667	55.3	29	79.3	31	252	29	265	28	29
86 1/10/2012	21-04-12	22	89.8	93.9	89.1	90.933333	638	698	631	655.66667	42.9	24	62.2	25	183	23	238	25	24
87	2/7/2012	13	45	44	42.8	43.933333	170	146	180	165.33333	17	14	26	14	79.2	14	95.3	14	14
000	21/2/12	31	125	129	127	127	1240	1330	1280	1283.3333	64.2	33	80.7	32	281	32	300	33	32
	18/6/12	16	55.1	53.8	56.6	55.166667	235	230	255	240	20	16	33.1	16	123	16	104	16	16
90 /	15/2/12	32	125	130	130	128.33333	1240	1340	1330	1303.3333	68,1	35	81.4	32	298	34	313	35	34
91 ,,	25/6/12	16	43.8	43.2	42.7	43.233333	146	148	146	146.66667	18	14	25	14	7.67	14	94.3	14	14
92	10/2/2012	33	110	113	108	110.33333	959	1010	925	964.66667	69.1	35	86.8	35	312	35	321	36	35
93	21/2/12	31	117	114	115	115.33333	1090	1040	1060	1063.3333	64.3	33	83.1	33	291	33	311	34	33
94	26/2/12	30	125	124	125	124.66667	1240	1220	1250	1236.6667	63.7	33	80.3	32	292	33	300	33	32
95 /	27/06/12	13	52	51.2	50.9	51.366667	203	200	220	207.66667	14.5	14	29.4	15	92.6	16	109	15	15

34	13	40	17	100	14	33	14	23	34	36	28	36	33	19	34	24	31	14	18	18	300	15	37	27	22	22	34	37	38	17	34
35	15	37	17	18	14	33	14	23	35	37	28	36	33	19	35	24	32	14	18	20	38	15	38	27	22	22	34	37	38	17	35
317	111	328	137	150	6.4	303	4.3	190	318	328	265	322	301	169	298	224	295	4.3	147	182	333	111	333	256	208	200	308	339	333	137	318
50 LO	15	37	18	18	14 9	32	14 9	23	34	36	28	37	34	19	35	25	32	14 5	18	18	38	15	37	27	22	22	34	38	38	18	33
313	9.6	324	127	124	0.1	275	.6.	183	303	325	239	324	301	158	307	200	281	1.6	128	119	338	39.6	335	244	170	180	301	339	344	127	290
33	16 8	36	17	18	15 8	33	14 7	25	34	36	28	36	33	19	33	23	30	14 7	18	17	38	16 8	38	27	22	22	35	37	300	17	34
81.9	31.5	90.5	37.9	42.4	29	82.6	25	62.2	85.3	90	69.7	85.6	83.7	46	82.3	58.3	76.3	25	40.2	37.7	86.7	31.5	86.2	69.2	53.3	54	85	92.6	94.7	37.9	86.4
35	15	37	17	18	14	34	14	24	35	37	29	36	34	19	34	24	32	14	100	18	38	15	38	29	23	23	34	38	39	17	22
08.2	15	72.7	24.8	27.9	18	65.7	100	42.9	67.6	72.4	54.9	70.4	66.4	30.4	66	43.7	61.4	18	28.1	25.7	74.2	15	74.1	54.2	41.5	41.2	65	74.6	76.7	24.8	69.1
1170	211.33333	1463.3333	376.66667	277.33333	189	1196,6667	200.66667	655.66667	1286.6667	1233.3333	933.33333	1163.3333	1293.3333	545.33333	967.33333	563.66667	1046.6667	200.66667	468.33333	254.33333	1360	216	1243.3333	1166.6667	606.66667	783.33333	994	1136.6667	1263.3333	378	1150
1120	215	1420	335	292	189	1100	237	631	1300	1200	980	1190	1290	546	925	604	1000	237	465	262	1330	213	1280	1170	629	770	976	1170	1200	337	1100
1210	210	1480	416	302	178	1310	148	698	1240	1220	9006	1130	1290	540	1020	604	1070	148	500	272	1410	215	1210	1170	589	790	916	1170	1310	419	10101
1180	209	1490	379	238	200	1180	217	638	1320	1280	920	1170	1300	550	957	483	1070	217	440	229	1340	220	1240	1160	602	790	1090	1070	1280	378	11101
121.55555	52.233333	135.66667	68.733333	58.966667	44.833333	122.66667	50.033333	90.933333	127.66667	124.66667	109.33333	121	132.33333	82.366667	110.33333	84.066667	114.66667	50.033333	71.166667	56.566667	131	52.133333	125	120.66667	87.3	58.1	111.66667	119.33333	126	68.6	CCCCC UCL
119	54	134	64.9	60.6	45.8	118	54.6	89.1	128	123	109	122	132	06	108	87.1	112	54.6	67.5	57.4	130	52.6	127	121	88.9	98.6	111	121	123	65	110
123	52	136	72.3	61.6	45	128	43.2	93.9	126	124	109	120	135	76.8	112	87.2	116	43.2	70.7	58.6	133	49.8	123	121	86	95.7	107	121	128	71.8	132
122	50.7	137	69	54.7	43.7	122	52.3	89.8	129	127	110	121	130	80.3	111	77.9	116	52.3	75.3	53.7	130	54	125	120	87	100	117	116	127	69	1001
32	28	38	17	15	14	31	16	25	32	33	25	34	30	19	31	22	30	16	19	15	36	28	34	27	21	21	31	38	38	17	VC
12/2/2012	18/6/12	10/4/2012	4/6/2012	11/6/2012	25/6/12	21/2/12	25/6/12	1/4/2012	12/2/2012	7/2/2012	1/4/2012	2/2/2012	6/6/2012	22/5/12	22/2/12	25/4/12	3/3/2012	27/6/12	30/5/12	14/6/12	22/1/12	20/6/12	1/2/2012	28/3/12	7/5/2012	9/5/2012	22/2/12	10/1/2012	14/1/12	13/6/12	C100/012
. 96	. 26	98 "	99 "	100	101	102 '	103	104 '	105 2/10/2012	106 '	107	108 '	, 601	110/,,	111 .	112	113 3/10/2012	.14	.15	.16	.17 '	18	119 '		.21	.22	23	24 10/10/2012	25	26 "	. 12

	-	-					-		-	-	-		m I	101	AR I	wh I	oil	co I	DI	co I	co I	100	-1	m	co I	001	101	001	101	001	41	5
28	14	29	35	31	32	16	39	33	28	37	39	31	15	25	35	14	22	35	3.	3	3	2	60	2	2	2	ŝ	3	Ŧ	2	1	1
28	14	29	35	32	33	16	40	34	28	37	39	31	18	24	38	14	22	300	38	34	34	29	30	23	28	28	35	32	15	29	14	19
258	94.3	267	314	285	302	122	368	307	258	339	356	281	158	227	350	96.4	206	338	335	307	307	267	280	212	258	259	318	294	111	266	96.5	164
28	14	29	35	31	31	16	40	33	28	38	39	30	18	24	30	14	23	38	37	33	33	29	31	24	28	28	37	33	15	28	14	20
237	79.7	244	309	274	269	95.2	362	287	237	343	354	259	125	198	339	82.5	179	339	326	294	295	242	268	198	237	233	332	292	89.6	233	77.9	145
27	14	29	35	32	33	16	37	32	27	36	39	31	18	25	38	14	21	38	37	33	33	27	30	22	27	29	37	34	10	29	14	57
68	25	74	86.8	80.1	82.1	34	93	79.7	68	90.6	97	78.6	41.9	61.9	94	25.8	51	17.76	92.6	82.3	84.3	67.5	75,4	54.6	68	72.9	89.68	80.3	31.5	72.7	26.9	44.7
29	14	31	35	32	33	16	39	34	29	38	40	32	18	26	38	14	23	38	37	34	34	28	32	24	29	29	36	34	15	29	14	19
54	18	59.2	67.9	62	63.2	21.9	77.3	65.9	54	74.2	78	62.2	27.3	47.7	74.1	16.3	40	75.2	72.4	65	65.4	52.7	62.6	44.4	54	55.4	70.9	66.5	15	55.4	16.9	29.9
880.333333	173	830	1113.3333	1013.3333	1009.6667	264.33333	1860	1170	930	1226.6667	1568.3333	868	373	748.66667	1330	198.33333	648.66667	1250	1390	1049.6667	1016.3333	893.66667	687.66667	778	963.333333	937.33333	1193.3333	1176.6667	221.33333	974.66667	198,23333	406
850	201	822	1100	10001	1030	274	1750	1250	900	1190	1530	811	382	781	1280	233	562	1300	1450	1060	919	890	100	822	9005	858	1310	1220	225	1000	239	463
891	148	924	1170	1000	1040	267	1900	1130	900	1300	1600	924	398	794	1330	153	773	1310	1310	1090	1100	168	1040	821	1000	924	1230	1130	209	924	145.7	420
006	170	744	1070	1040	959	252	1930	1130	990	1190	1575	869	339	671	1380	209	611	1140	1410	999	1030	900	923	691	990	1030	1040	1180	230	1000	210	335
110	44	102.23333	118.33333	117 33333	113	57.633333	155.33333	171 33333	101.33333	123.33333	140	104.66667	68.366667	96.933333	129.33333	49.866667	90.1	125.33333	132	114.66667	112.66667	105.66667	111.33333	99.066667	106.33333	108.33333	122	122	50.666667	108.33333	50.233333	71.3
120	42.8	102	118	117	112	58.6	12.7	175	102	122	141	101	69.2	99.1	127	50.7	84.1	128	135	115	107	101	112	102	110	104	129	124	51.6	104	51.1	76.3
110	43.2	108	121	110	115	1 22	155	120	106	125	140	108	70.7	99.99	129	51.1	98.6	128	128	117	118	110	114	102	106	108	173	120	50.2	108	49.6	7 27
100	46	96.7	116	115	110	2 4 2	156	110	96	123	139	105	65.2	91.8	132	47.8	87.6	120	133	112	113	106	108	93.2	103	113	114	177	50.7	113	50	679
28	16	29	34	27	1 5	15	34	3 6	78	385	40	31	18	24	39	33	22	30	37	22	32	28	28	21	28	13	EE	30	38	26	14	10
23/3/12	4/7/2012	14/3/12	6/2/2012	25/2/12	C 1/ C/ LC	20/6/13	C100/07	210/01/01	C100/27	2100/1/01	4/1/2012	1/3/2012	1/6/2012	19/4/12	7/1/2012	18/7/12	1/5/2012	12/1/2012	22/1/12	25/2/12	C1/C/61	25/3/12	23/3/12	11/5/2012	6/7/2012	2/7/2012	15/2/12	11/2/2012	29/6/12	7/4/2012	6/7/2012	16/6/17
129'	130	131	1221	1221	1 201	125 '	126	10CT	1 201	120 1	140	1.012	142 10/10/2012	142	1 22	145	146	147	148	149	1501	151	152 12/10/2012	153	15.4	155.1	166 1	1571	158 1	159 -	160	1611

162	6/7/2012	16	52.3	43.2	54.6	50.033333	217	148	237	200.66667	18	14	25	14	79.7	14	94.3	14	14
163 .,	15/6/12	17	70	70.7	70.2	70.3	376	418	339	377.66667	25	17	38	17	125.8	18	138	17	17
164	15/2/12	33	114	123	129	122	1040	1230	1310	1193.3333	70.9	36	89.6	37	332	37	325	36	36
165	1/4/2012	27	109	108	108	108.33333	950	924	925	933	60.7	31	80.6	32	265	31	262	31	31
166	3/3/2012	31	126	127	128	127	1260	1280	1300	1280	68.6	35	85	35	286	33	314	35	34
167 '	22/6/12	15	58.1	64	62.8	61.633333	268	344	313	308.33333	29.6	10	46.3	19	152	20	168	19	19
168 '	1/4/2012	27	109	108	108	108.33333	950	924	925	933	60.7	31	80.6	32	256	30	283	31	31
169 15/10/12	7/7/2012	14	63.5	63	68	64.833333	321	316	370	335,66667	25.1	17	40.5	18	116	17	147	17	17
170	1/4/2012	27	108	108	105	107	923	924	872	906.33333	61.4	32	77.2	30	265	31	287	31	31
. 171	8/2/2012	35	125	127	129	127	1240	1280	1310	1276.6667	74.1	30	93.3	37	327	37	344	39	38
172	7/5/2012	22	94.7	95.6	97.1	95.8	714	722	750	728.66667	44.6	25	65.9	26	201	25	236	25	25
173	16/2/12	34	130	125	118	124.33333	1340	1300	1100	1246.6667	74	37	90.8	36	345	38	344	39	37
174	23/7/12	28	96	106	102	101.33333	734	891	822	815.66667	54	29	68	27	237	28	258	28	28
175 ,,	1/6/2012	18	73	73	70.9	72.3	430	516	465	470.33333	27.4	18	41.7	18	129	18	150	19	18
176'	22/3/12	29	112	105	111	109.33333	666	883	976	952.66667	57.4	30	79.8	32	249	29	292	32	30
177 '	3/5/2012	23	97.2	105	111	104.4	731	883	976	863.33333	57.4	30	79.8	32	249	29	292	32	30
178 '	7/8/2012	6	49.9	55.5	46.9	50,766667	198	245	175	206	9.71	13	25.7	14	68.8	14	70.3	14	14
179 '	1/7/2012	14	74	68.1	68	70.033333	436	369	370	391.66667	26.3	18	40.6	18	128	18	152	18	18
180'	10/5/2012	22	102	93.6	97.5	5.72	821	697	757	758.33333	46.5	25	64.1	25	217	26	229	25	25
181 '	19/3/12	29	109	105	110	108	950	883	957	930	64.6	33	80.8	32	300	34	300	33	33
182	27/5/12	19	100	105	105	103.33333	890	883	005	168	45.2	25	63.8	25	199	25	231	25	28
183 22-10-12	19/7/12	13	56.5	62.8	59.4	59.566667	254	314	281	283	24.9	17	39.8	18	123	18	150	18	17
184	17/6/12	17	86.7	86.2	88.4	87.1	598	586	608	597,33333	39	22	51.2	21	168	22	181	22	21
185 '	11/8/2012	10	54	63.4	61.7	59.7	232	320	303	285	15.2	14	33.7	16	91.8	15	111	15	15
186	26/7/12	12	54.3	52.9	56.3	54.5	233	223	252	236	19	16	36.3	17	94	16	128	16	16
187 '	8/6/2012	18	102	100	109	103.66667	799	780	790	789.66667	41.3	23	60.5	24	168	22	221	24	23
188 '	29/4/12	24	115	116	119	116.66667	1040	1070	1120	1076.6667	54.8	29	74.3	29	248	29	273	29	29
189 '	23/2/12	33	122	121	119	120.66667	1180	1170	1120	1156,6667	75.5	38	94.3	38	338	38	341	39	38
190 ,,	21/5/12	22	96.7	100	102	99.566667	790	190	780	786.66667	40	22	52	22	184	22	197	22	22
191 ,,	7/5/2012	24	7.66	100	103	100.9	866	870	870	868.66667	43.9	24	59.8	24	196	24	220	24	24
192 '	30/7/12	28	96	106	102	101.33333	734	891	822	815.66667	54	29	68	27	237	28	258	28	28
193 "	25/6/12	17	70	70.7	70.2	70.3	376	418	339	377.66667	25	17	38	17	125.8	18	138	17	17
194 ,,	16/4/12	27	125	106	117	116	1146	1100	1090	1112	51.6	27	68	27	223	27	260	28	27

l	and the second s	the second secon				and the second se	and a state of the													
191	-	24/6/12	19	74.8	81.5	78.2	78.166667	445	529	486	486.66667	35.7	21	47.9	20	156	21	181	22	21
19(-	2/2/2012	37	139	140	139	139.33333	1490	1550	1550	1530	80.6	41	102	42	361	40	356	41	40
19	-	1/3/2012	32	131	132	134	132.33333	1370	1390	1420	1393.3333	73.1	37	86.3	37	331	37	332	38	37
361		16/4/12	26	100	110	5.92	103.23333	906	960	960	940	48.5	26	64.8	26	220	26	245	26	26
196	23-10-12	27/5/12	20	103	93.9	109	103.96667	844	794	935	857.66667	45.6	25	61.9	25	206	25	231	25	25
200	-	2/3/2012	33	137	138	137	137.33333	1490	1510	1490	1496.6667	73.2	37	92.3	37	340	38	334	38	37
201	-	12/6/2012	18	99.4	100	59.3	99.566667	787	803	784	791.33333	38.2	22	55.5	23	188	24	212	23	23
202	-	7/5/2012	23	116	116	115	115.66667	1070	1070	1060	1066.6667	52.6	28	71.2	28	261	28	261	28	28
203	-	7/6/2012	19	105	108	96.5	103.16667	869	924	741	844,66667	45.9	25	60.6	24	223	24	223	24	24
204	_	6/5/2012	23	101	1.00	25	99.333333	900	876	889	888,33333	53	28	73.5	29	233	28	263	28	28
205	24/10/12	28/3/12	29	126	124	125	125	1260	1220	1250	1243.3333	66.5	34	83.8	33	304	34	311	34	34
206	-	20/5/12	22	93.1	93.3	97.7	54.7	690	693	760	714.33333	48.6	26	64.3	25	212	26	244	26	26
207	-	9/7/2012	23	78.7	74.3	75.5	76.166667	492	440	455	462.33333	29.2	19	43.8	19	135	19	160	18	19
208	11	6/6/2012	20	80.5	78.9	75.4	78.266667	550	550	554	551.33333	31.8	19	43.2	19	143	19	173	19	19
209	-	20/3/12	30	119	117	111	115.66667	1130	1090	976	1065.3333	67.2	35	83.4	33	312	35	314	35	34
210		21/9/12	35	156	151	151	152.66667	1940	1810	1800	1850	77.3	39	92.2	37	360	40	349	40	39
211	11	27/6/12	17	70.9	70.6	71	70.833333	433	510	455	466	27.2	18	41.7	18	128	18	150	18	18
212	-	6/5/2012	23	101	108	103	104	817	924	848	863	53.4	28	72.9	29	242	29	277	30	29
213	-	12/5/2012	23	108	102	105	105	923	821	872	872	50	27	68.4	27	233	28	251	27	27
214	-	21/4/12	26	110	109	110	109.66667	959	934	957	950	58.6	30	72.9	29	251	29	276	30	29
215	-	15/7/12	14	67	67.7	67.9	67.533333	357	365	367	363	31.1	20	44.5	19	135	19	160	18	19
216		4/7/2012	16	55.1	53.8	56.6	55.166667	235	230	255	240	20	16	33.1	16	123	16	104	16	16
217	-	11/5/2012	23	111	113	112	112	956	1010	1000	988.66667	55.7	29	72.8	29	243	29	266	29	29
218		14/4/12	27	124	129	126	126.33333	1220	1330	1260	1270	64.7	33	82.6	33	280	32	300	33	32
219		6/6/2012	20	86.9	89.4	85.4	87.233333	702	650	069	680.66667	32	20	48	20	154	20	173	20	20
220		6/6/2012	20	88.4	88.3	84.7	87.1333333	618	620	571	603	31.9	20	51	21	159	21	174	20	20
221		1/8/2012	12	43.9	49.5	44.3	45.9	167	143	187	165.66667	17	14	27	14	80	14	93.6	14	14
222		23/7/12	12	72.8	75.4	73.4	73.866667	422	452	426	433.33333	28.4	18	42	18	132	19	150	18	100
223		27/4/12	25	118	116	117	117	1110	1070	1090	1090	60.2	31	78.4	31	283	32	291	32	31
224	25/10/12	10/5/2012	23	112	115	112	113	666	1040	1000	1013	55	29	70.4	28	247	29	266	29	28
225		26/4/12	25	132	129	131	130.66667	1380	1330	1370	1360	60.7	31	77.7	31	260	30	288	31	31
226		27/6/12	16	94	91.6	90.2	91.933333	703	663	648	673	39	22	51	21	171	22	188	22	21
227		14/8/12	10	55.3	54.3	57.4	55.666667	243	234	262	246.33333	18.9	16	31.5	16	101	16	128	16	16

1000		21012042	-																	
		7107/0/0	77	10/	110	108	108.33333	895	1000	925	940	56.8	29	70.9	28	256	30	266	29	29
. 677		1/4/2012	25	124	124	124	124	1220	1220	1220	1220	67.2	35	87.5	35	308	35	314	35	35
230 "		28/6/12	1 17	70	70.7	70.2	70.3	376	418	339	377.66667	25	17	38	17	125.8	18	138	17	17
231 "		26/1/12	40	135	136	134	135	1480	1480	1430	1463.3333	76.9	39	96.5	39	354	40	374	40	40
232		17/3/12	31	132	133	132	132.33333	1380	1410	1380	1390	73.6	37	91.7	36	330	37	377	36	25
233		23/6/12	17	91.1	89.4	93.7	91.4	199	636	698	665	41 2	73	192	23	176	33	217	23	32
234 26/1	0/12	1/7/2012	16	85	85	84.5	84,833333	574	576	565	571.66667	39.4	22	517	16	155	21	107	3 12	24
235 '		7/4/2012	28	119	118	120	119	1130	1100	1140	1123.3333	66.3	17E	E 78	1 67	2002	VE	305	20	14
236		27/5/12	21	106	100	102	102.66667	888	803	822	837.66667	49.9	27	67 7	24	200	20	727	77	35
237		22/8/12	6	54.3	52.3	56	54.2	233	217	249	233	16.3	10	34.3	191	99.1	19	177	19	15
238 "		15/6/12	19	72.2	70.9	71.1	71.4	438	440	500	459.33333	27.6	18	42.1	00	140	19	152	18	18
239 "		20/1/12	40	139	140	141	140	1575	1600	1530	1568.3333	78	40	97	39	354	39	356	39	39
240		13/7/12	28	49.9	53.4	50.9	51.4	200	220	215	211.66667	15	15	31.5	16	89.6	15	111	15	151
241 '		1/4/2012	29	121	117	121	119.66667	1170	1090	1170	1143.3333	69	35	87.2	35	299	34	305	34	34
242		1/4/2012	29	134	128	133	131.66667	1440	1310	1410	1386.6667	67.2	35	84.9	34	309	10	313	35	34
243		23/7/12	13	67.5	72.1	67.2	68.933333	364	413	364	380.33333	28.3	19	44.8	19	137	19	168	19	19
244		1/8/2012	12	76	73.5	76.9	75.466667	459	430	470	453	27.9	100	45.3	19	127	18	150	13	18
245 '		9/7/2012	15	75.4	75.5	71.8	74.233333	452	454	410	438,66667	36	21	47.5	20	158	21	190	21	20
246		15/3/12	31	137	137	135	136.33333	1490	1480	1450	1473.3333	73.2	37	91.7	37	342	38	328	37	37
247 29/10	0/12	26/4/12	26	113	113	111	112.33333	1030	1010	976	1005.3333	59.9	31	77	30	270	31	275	30	30
248		20/7/12	28	100	106	110	105.33333	910	920	900	910	54	29	68	27	237	28	258	28	28
249		14/6/12	19	104	104	99.7	102.56667	868	859	784	837	44.3	24	58.9	24	197	24	218	23	24
250		14/6/12	19	96.5	94.5	100	97	190	790	820	800	42.5	24	57.7	23	194	24	215	23	23
251		4/7/2012	19	75.8	77.1	73.5	75.466667	457	473	430	453.33333	34.2	21	45.7	19	154	21	173	19	20
252 5/11/.	2012	25/2/12	35	128	128	125	127	1290	1310	1250	1283.3333	77.3	39	96.8	39	353	39	345	39	39
253		24/2/12	35	130	130	129	129.66667	1340	1340	1310	1330	77.9	39	96.3	39	357	40	335	300	39
254		16/3/12	32	146	144	144	144.66667	1680	1660	1660	1666.6667	69.9	36	89.1	36	326	37	325	36	36
255		24/3/12	51	113	111	111	111.66667	1030	972	976	992.66667	54.6	29	81	32	268	31	281	31	31
256 5/11/3	2012	25/2/12	35	128	128	125	127	1290	1310	1250	1283.3333	77.3	39	96.8	39	353	39	345	39	58
257		5/7/2012	17	85	92	88	88.333333	574	674	622	623.33333	33.6	21	50.2	21	160	21	183	20	21
258		3/4/2012	30	124	125	128	125.66667	1220	1250	1280	1250	66.4	34	83.7	33	301	34	301	33	33
259		25/6/12	19	78.7	78.8	76.9	78.133333	560	574	588	574	30.3	19	46	19	140	18	165	19	19
260		2/2/2012	37	139	140	131	136.66667	1490	1550	1480	1506.6667	80.6	41	102	42	361	40	356	41	40

294	13/5/12	26	114	114	117	115	1040	1040	1090	1056.6667	57.7	30	72.1	28	262	30	288	31	30
295	17/4/12	30	126	126	125	125.66667	1250	1250	1250	1250	66.1	34	80.2	32	298	34	307	34	33
296	19/4/12	29	126	125	125	125.33333	1260	1250	1250	1253.3333	66.7	34	84.4	33	300	34	304	33	34
297 '	11/4/2012	30	132	129	132	131	1380	1330	1380	1363.3333	70.7	36	87.8	35	313	35	316	35	35
298 19/11/12	11/7/2012	18	94.7	91.2	95.2	93.7	714	660	722	698.66667	36.7	22	51.3	21	196	21	196	21	21
, 565	19/4/12	30	134	131	131	132	1440	1360	1370	1390	66.6	34	85	35	310	35	312	34	34
300	21/5/12	25	119	119	120	119.33333	1130	1120	1140	1130	52.7	28	67.8	27	243	29	252	27	28
301	24/5/12	24	109	103	105	105.66667	950	840	872	887.33333	56.1	29	73.8	29	253	30	260	28	29
302	15/5/12	26	118	115	114	115.66667	1110	1040	1030	1060	58	30	73.8	29	253	30	280	30	30
303	22/6/12	21	97.2	98	97.3	97.5	731	764	753	749.33333	45.3	25	64.1	25	196	24	224	24	24
304 ,,	8/5/2012	27	123	124	123	123.33333	1190	1220	1200	1203.3333	60.6	31	77.6	31	267	31	291	32	31
305 23/11/12	7/3/2012	36	150	147	144	147	1780	1730	1660	1723.3333	72.7	37	60	36	337	38	330	37	37
306 '	1/4/2012	33	128	133	126	129	1290	1410	1260	1320	65.6	34	83.2	33	305	34	310	34	34
307	17/8/12	28	9.66	106	110	105.2	934	945	904	927.66667	54	29	68	27	237	28	258	28	28
308	6/8/2012	15	55.3	61.5	61.7	59.5	243	301	303	282.33333	20.3	16	34.7	16	104	16	122	16	16
309 '	27/6/12	20	93.7	92.7	88.4	91.6	669	684	608	663.66667	39	22	49.9	21	174	22	197	21	21
310 '	10/6/2012	23	88.5	92.5	96.7	92.566667	624	681	744	683	44	24	60.8	24	194	24	216	23	23
311	5/8/2012	15	55.5	55.8	54.5	55.266667	243	248	237	242.66667	19	16	32	16	94.9	16	115	15	15
312 26/11/12	6/3/2012	37	128	127	131	128.66667	1290	1280	1350	1306.6667	72	37	92.2	37	328	37	327	37	37
313 '	4/5/2012	29	122	114	117	117.66667	1180	1040	1090	1103.3333	56.2	29	64.4	27	247	29	264	28	28
314	9/4/2012	34	139	139	139	139	1490	1490	1470	1483.3333	64.3	33	84	ŝ	306	34	310	34	33
315	27/5/12	25	102	102	101	101.66667	821	821	813	818.33333	48.2	26	63.1	26	219	26	245	26	26
316 ,,	28/5/12	26	99	57	300	98	930	900	960	930	48.5	26	64	26	220	26	243	26	26
317 ,,	30/7/12	17	70	72	68.7	70.233333	380	417	340	379	25	17	39	17	126	18	136	17	17
318	3/7/2012	20	85.5	85.2	84.6	85.1	368	564	570	500,66667	35.2	21	47.5	20	146	146	184	20	20
319	6/8/2012	15	64.9	66.4	64.4	65.233333	335	350	320	335	20.4	16	36.7	17	104	16	104	16	16
320 3/12/2012	15/3/12	37	128	122	124	124.66667	1290	1180	1220	1230	71.4	36	89.6	37	323	36	333	38	36
321 '	25/3/12	35	130	124	126	126.66667	1340	1220	1260	1273.3333	68.8	35	86.4	34	315	34	324	36	35
322 '	2/3/2012	38	134	134	134	134	1440	1440	1420	1433.3333	74.6	30	93.8	38	353	39	342	300	38
323 '	14/4/12	32	124	123	124	123.66667	1220	1200	1220	1213.3333	61.1	32	80.5	32	255	30	300	33	32
324 '	8/3/2012	38	126	126	125	125.66667	1260	1260	1250	1256.6667	73.4	37	91.9	37	332	37	324	36	37
325 '	20/8/12	15	50.7	54	48.6	51.1	200	190	180	190	15	15	31.5	16	89.68	15	111	15	15
326	21/8/12	16	40.9	43.5	43.5	42.633333	133	150	150	144.33333	13.1	14	25.9	14	89.7	15	90.8	14	14

1000		-				a second				and the second se								-	
" /75	19/3/12	35	156	155	155	155.33333	1930	1900	1750	1860	77.3	39	93	37	362	40	368	40	39
328 "	16/7/12	22	105	96.8	102	101.26667	869	746	822	812.33333	41.5	23	54.7	22	186	23	202	22	22
329	25/4/12	19	115	114	113	114	1040	1040	1010	1030	60	31	75.9	30	255	30	276	30	30
330 10/12/2012	14/3/12	26	130	130	132	130,66667	1340	1340	1380	1353.3333	71.8	36	87.7	37	319	35	374	36	36
331 "	16/7/12	21	98.9	96.8	99.2	98.3	810	769	780	786.33333	39.5	22	22	22	181	22	200	22	22
332 "	25/3/12	36	121	121	117	119.66667	1170	1170	1090	1143.3333	67.1	35	90.8	36	306	35	323	36	35
333 ,,	13/6/12	25	86.7	88.4	86.6	87.233333	598	620	567	595	43.6	24	59.3	24	199	25	233	24	24
334 "	27/4/12	32	118	120	113	117	1110	1130	1010	1083.3333	58.9	30	73.5	29	268	31	273	29	30
335 "	15/4/12	40	140	140	140	140	1560	1550	1550	1553.3333	79.9	40	96.4	39	360	40	334	38	39
336 "	2/8/2012	14	93.2	90.3	94.5	92.666667	691	649	716	685.33333	30.1	19	46.3	19	149	20	178	20	19
337 "	8/4/2012	34	134	131	134	133	1440	1360	1420	1406,6667	71	36	88.7	36	312	35	324	36	36
338 "	14/7/12	20	105	107	105	105.66667	869	916	872	885.66667	39.2	22	54.2	22	182	23	206	22	22
339 '	3/9/2012	28	110	109	110	109.66667	890	1000	900	930	54	29	68	27	237	28	258	28	28
340 28/12/12	18/6/12	27	102	102	102	102	821	821	822	821.33333	42.6	26	65.4	26	221	27	237	25	29
341 "	4/6/2012	27	125	106	117	116	1146	1100	1090	1112	51.6	27	689	27	223	27	260	28	27
342 "	19/3/12	38	148	143	145	145.33333	1500	1490	1500	1496,6667	80	40	66	40	354	40	374	40	40
343 "	9/6/2012	28	107	107	106	106.66667	895	916	005	903.66667	51.1	27	66.6	27	266	27	243	26	26
344 "	25/4/12	34	128	130	127	128.33333	1290	1340	1280	1303.3333	64.2	33	83.9	33	286	33	278	33	33
345 "	4/4/2012	37	129	130	126	128.33333	1320	1340	1260	1306.6667	71.9	36	88.7	36	320	36	321	36	36
346 "	27/5/12	30	108	109	106	107.66667	923	934	900	919	54.2	29	76.2	30	246	29	264	28	29
347	24/2/12	35	130	130	129	129.66667	1340	1340	1310	1330	6.77	39	96.3	39	357	40	335	300	39
348 "	9/9/2012	15	47	46.7	45.6	46.433333	198	188	200	195.33333	15.3	14	27.1	14	88.2	15	103	14	14
349 .,	10/6/2012	28	105	105	105	105	869	883	872	874.66667	52	28	70.1	28	230	27	256	27	27
350 "	22/4/12	35	133	129	122	128	1410	1330	1190	1310	64.7	33	81.1	32	301	34	307	34	33
351 ,,	3/5/2012	33	114	110	118	114	1040	1.000	1100	1046.6667	61.4	32	77.9	31	295	33	301	33	32
352 "	9/6/2012	28	104	97.6	102	101.2	868	758	822	816	49.1	26	65.7	26	213	26	243	26	26
353 "	7/9/2012	16	55.1	53.8	56.6	55.166667	235	230	255	240	20	16	33.1	16	123	16	104	16	16
354	20/4/12	35	135	134	134	134.33333	1440	1440	1420	1433.3333	64.8	33	80.2	32	282	32	288	31	32
355 "	20/7/12	23	96.7	98.7	99.6	98.333333	890	871	006	887	43	24	59.7	24	198	24	220	24	24
356 ,,	22/7/12	22	82.9	83.8	84	83.566667	547	559	562	556	33.2	20	46.7	20	152	20	170	19	19
357	20/3/12	40	152	152	152	152	1830	1830	1830	1830	72.6	37	93.5	37	337	38	362	37	37
358 ,,	6/4/2012	37	142	143	142	142.33333	1600	1630	1600	1610	67	35	87.7	35	311	35	322	36	35
359 29/12/12	13/4/12	36	136	135	136	135.66667	1360	1440	1470	1423.3333	65.8	34	85.3	34	300	34	319	35	34

01	1 28	16	1 60	14	33	17	14	39	18	24	25	35	29	25	40	37	21	36	20	15	29	35	17	23	28	14	100	30	33	10	VC
101	36	16	32	27	33	17	10	39	10	24	25	37	31	25	41	39	21	37	20	15	29	35	17	24	28	14	18	31	35	18	00
169	377	130	290	752	304	138	194	350	144.8	223	238	329	281	235	356	340	183	326	175	111	274	317	136	220	258	92.9	152	283	318	154	100
19	1 2	16	31	79	3.5	181	22	39	18	25	26	36	29	26	40	37	21	36	22	15	30	35	18	24	28	14	19	31	33	19	00
150	314	104	273	747	282	125.8	175	360	130	205	215	321	250	215	361	332	168	318	162	89.6	256	314	126	193	237	81.1	132	270	287	133	1
191	35	17	30	77	32	17	27	37	18	24	25	34	29	24	42	37	21	35	20	16	30	36	17	23	27	14	18	29	33	18	
45.9	86.2	35.6	76	68.9	18	00	54.4	93.6	43.2	60.5	64.3	86.4	74.5	60.6	102	93.1	50.8	88.4	47.6	31.5	75	89.8	39	56.9	68	27.1	41	73	833	40.8	
191	35	16	31	27	32	17	23	39	18	25	26	35	29	26	41	37	21	37	21	15	29	35	17	24	29	14	19	31	33	100	
28.9	67.2	21.3	61	50.7	61.4	25	40.9	78	26.9	46.8	47.9	69.3	56.5	48.2	80.6	74	35	73.7	35.7	15	56.4	67.5	25	42.3	54	16.9	28.3	59.2	64.1	27.1	
570	1246.6667	300	988	767	1273.3333	377.66667	638.66667	1933.3333	463.33333	742.33333	844	1360	1033	1033.3333	1506.6667	1510	681.33333	1500	660.33333	189.66667	1323.3333	1576.6667	379	855,66667	815.66667	198	633.33333	1183.3333	1063.3333	448.33333	
596	1250	281	1000	776	1250	339	631	1950	460	742	848	1310	1090	1080	1480	1490	704	1490	701	190	1380	1550	340	858	822	233	634	1190	1030	438	
565	1250	314	934	742	1310	418	655	1920	430	736	840	1390	1010	1040	1550	1550	069	1510	620	180	1220	1580	417	840	891	150	634	1180	1120	467	1000
549	1240	305	1030	783	1260	376	630	1930	500	749	844	1380	666	1030	1490	1490	650	1500	660	199	1370	1600	380	869	734	211	632	1180	1040	440	10000
88.766667	125	61.4	111.33333	98.166667	126.33333	70.3	89.566667	156	73.066667	96.6	103	131	114	114	136.66667	138	93.5	137.66667	91.166667	50.433333	129	141	70.233333	104	109.33333	49.9	69.7	122.33333	115.66667	75.066667	
90.3	125	59.4	112	98.7	125	70.2	68	156	76	96.6	103	129	117	114	131	137	94	137	93.9	50.7	132	140	68.7	104	109	52.2	70	122	114	74.2	v ret
89.5	125	62.8	109	96.6	128	70.7	90.7	156	72.4	96.2	103	132	113	115	140	140	92.8	138	88.4	50.7	124	141	72	103	109	46.8	70	123	119	76.6	
86.5	125	62	113	99.2	126	70	89	156	70.8	67	103	132	112	113	139	137	93.7	138	91.2	49.9	131	142	70	105	110	50.7	59.1	122	114	74.4	0
18	37	26	33	28	33	17	24	38	17	24	25	34	28	25	37	37	19	35	20	15	28	34	17	23	28	14	17	30	33	17 7	00
25/8/12	7/4/2012	8/9/2012	9/5/2012	9/6/2012	3/5/2012	1/9/2012	6/7/2012	7/4/2012	8/9/2012	12/7/2012	4/7/2012	1/5/2012	15/6/12	6/7/2012	2/2/2012	14/4/12	24/8/12	26/4/12	12/8/2012	21/9/12	18/6/12	3/5/2012	21/9/12	22/7/12	28/9/12	28/9/12	1/9/2012	2/6/2012	16/5/12	2/9/2012	8/6/2012
360 "	361 ,,	362 "	363 "	364 "	365 "	366 "	367	368 "	369 ,,	370 4/1/2013	371 "	372 "	373 "	374 "	375	376 "	377	378 "	379 "	380 '	381 ,,	382 .,	383 .,	384 .,	385 '	386 "	387	388 5/1/2013	389 "	390 ,,	

																			The second	The second
393 ,		1/9/2012	18	73	72.3	74	73.1	480	435	502	472.33333	28	18	39.9	18	123	18	146	18	18
394		7/4/2012	38	139	140	135	138	1490	1480	1480	1483.3333	79	40	66	41	361	40	356	41	40
395		7/5/2012	34	128	130	128	128.66667	1290	1340	1300	1310	68.1	35	86.4	34	315	34	327	37	35
396		22/9/12	15	39.2	38.4	40.2	39.266667	122	120	126	122.66667	15	15	31.5	16	89.6	15	111	15	15
397		31/3/12	40	160	165	150	158.33333	1990	2010	1850	1950	62	40	58	40	346	39	350	40	40
398		11/5/2012	33	133	133	133	133	1410	1410	1410	1410	66.2	34	83.5	33	281	32	304	33	33
399 ,		4/5/2012	34	131	134	134	133	1370	1440	1420	1410	67.5	35	82.7	33	303	34	315	35	34
400		2/8/2012	22	105	96.8	102	101.26667	869	746	822	812.33333	41.5	23	54.7	22	186	23	202	22	22
401		19/6/12	28	105	95.8	99.4	100.06667	869	730	786	795	56.1	29	71.1	28	251	29	272	29	29
402		15/9/12	16	63	63.8	60.2	62.3333333	306	314	290	303.33333	22	16	36	17	104	16	129	16	16
403 "		6/7/2012	25	102	101	106	103	821	811	900	844	50.9	27	69.4	27	216	26	256	27	27
404		19/6/12	28	114	112	113	113	1040	1020	1020	1026.6667	53,8	28	76.4	30	244	29	268	29	29
405 7	/1/2013	22/3/12	40	133	134	134	133.66667	1410	1440	1420	1423.3333	75.8	30	91.9	37	351	39	351	39	38
406		2/4/2012	40	140	156	150	148.66667	1500	1440	1440	1460	80	40	96	38	354	40	374	40	40
407		12/8/2012	16	73.3	71.1	71.2	71.866667	428	402	403	411	25.6	18	41.9	18	140	19	149	18	18
408		4/5/2012	35	129	128	128	128.33333	1320	1310	1310	1313.3333	62.5	32	80.4	32	276	32	278	33	32
409		25/5/12	32	130	129	132	130.33333	1340	1330	1380	1350	63.7	33	80.5	32	295	33	310	34	33
410 .,		6/4/2012	39	134	135	136	135	1440	1420	1470	1443.3333	71.7	36	88.4	35	323	36	319	35	35
411 "		23/8/12	19	60.1	58.1	60.1	59.433333	287	269	287	281	20.1	16	37.3	17	112	17	134	16	16
412		20/5/12	32	112	112	112	112	666	1020	1000	1006.3333	58	30	74.1	29	242	29	282	30	29
413 "		18/4/12	37	134	134	132	133.33333	1440	1440	1380	1420	69	35	82.9	33	306	35	308	34	34
414		5/5/2012	34	129	129	131	129.66667	1320	1330	1350	1333.3333	61.2	32	78.2	31	289	33	290	32	32
415 .,		2/4/2012	39	138	138	130	138	1500	1510	1510	1506.6667	72.6	37	85.3	34	335	37	334	38	36
416		8/10/2012	13	50.7	50.7	50.7	50.7	220	220	246	228.66667	18	14	30	15	80.9	14	97.7	14	14
417		20/5/12	32	108	108	111	109	923	924	976	941	59	30	74.1	29	261	28	279	30	29
418		17/7/12	24	78.9	79.8	76.8	78.5	495	507	469	490.33333	36.6	22	49.9	21	166	22	192	21	21
419		15/4/12	40	140	140	140	140	1560	1550	1550	1553.3333	79.9	40	96.4	39	360	40	334	38	39
420 '		1/10/2012	28	59.8	106	110	105.26667	890	905	928	907.66667	54	29	63	27	237	28	258	28	28
421 ,,		6/5/2012	34	133	130	131	131.33333	1410	1340	1370	1373.3333	62.8	32	79.8	32	288	33	305	34	32
422 ,,		6/5/2012	34	110	109	110	109.66667	959	934	957	950	62.7	32	78.8	31	282	32	307	34	32
423 "		19/5/12	33	124	124	127	125	1230	1220	1280	1243.3333	57.3	30	73.2	29	261	28	279	30	29
424 "		24/4/12	36	122	124	125	123.66667	1180	1220	1250	1216.6667	67	35	80.7	32	300	34	305	34	33
425		6/5/2012	34	123	120	120	121	1190	1130	1140	1153.3333	61.6	32	78.6	31	268	31	305	34	32

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426	8/1/2013	4/6/2012	31	120	120	120	120	1140	1130	1140	1136.6667	63.3	33	74.8	30	267	31	297	32	31
477		20/6/12	27	99.6	99.5	98.9	99.333333	789	788	778	785	47.2	26	61.9	25	206	25	235	25	25
178		21/2/12	40	150	149	148	149	1780	1760	1730	1756.6667	74.5	38	93.2	37	342	38	342	30	37
020		26/7/17	55	08.7	09 4	98.9	66	775	787	778	780	36.1	21	49.9	21	151	20	182	20	20
UEV		17/5/13	385	175	129	121	125	1240	1330	1170	1246.6667	59.3	31	77.3	30	285	33	294	32	31
121		C10C/C/2	26	108	108	106	107.33333	923	924	006	915.66667	44.1	24	63.4	25	197	24	222	24	24
CET		10/7/2012	26	105	105	107	105.66667	869	883	919	890.33333	42.8	24	60.6	24	180	23	226	24	24
433		14/5/12	34	119	119	118	118.66667	1130	1120	1100	1116.6667	60.2	31	83.3	33	273	31	292	32	31
120		C10C/0/2	30	134	131	134	133	1440	1360	1420	1406.6667	73.4	37	92.6	37	335	37	328	37	37
735		24/7/12	24	7.66	111	100.6	103.76667	006	890	890	893.33333	42.6	24	58.9	24	200	24	219	24	24
446		1/5/2012	36	130	131	129	130	1340	1360	1310	1336.6667	66.8	34	84.6	32	304	34	316	35	33
437		C100/7/01	SC E	150	144	142	145.33333	1510	1480	1490	1493.3333	72.7	37	90.5	36	324	37	328	37	40
128		CLUC/8/21	10	88.8	90.4	85	88.066667	628	650	574	617.33333	31.2	20	47.6	20	161	21	174	20	20
010	11	4/5/2017	35	131	134	129	131.33333	1370	1440	1310	1373.3333	65.1	34	83.8	33	302	34	307	34	33
000		21/8/12	20	86.7	000	87.9	87.533333	760	800	800	786.66667	30.9	20	52.5	20	156	20	185	21	20
141		17/4/12	00	123	125	124	124	1850	1200	1220	1423.3333	76.8	39	96	39	352	39	350	39	39
447	-	25/9/12	15	39.2	38.4	40.2	39.265667	122	120	126	122.66667	15	15	31.5	16	89.6	15	111	15	15
243		27/5/12	32	129	128	129	128.66667	1320	1310	1310	1313.3333	60.4	31	77.4	30	265	31	286	31	31
444		11/5/2012	34	137	136	136	136.33333	1490	1480	1470	1480	4.6	m	82.7	33	305	34	309	34	33
145		11/6/2012	30	113	113	116	114	1030	1010	1080	1040	54.7	29	70.2	28	240	28	274	29	28
446		2/5/2012	36	145	144	144	144.33333	1650	1660	1660	1656.6667	66.2	34	86.9	35	288	33	323	36	34
447	10/1/2013	17/6/12	30	125	123	123	123.66667	1240	1200	1200	1213.3333	52.5	28	67.9	27	230	27	262	31	28
448	more to los	3/5/2012	35	131	134	128	131	1370	1440	1300	1370	66.6	34	81.4	32	309	35	313	35	34
449		26/3/12	42	137	141	138	138,66667	1490	1580	1510	1526,6667	17	39	91.1	36	348	39	348	40	38
450		17/4/12	30	140	140	140	140	1500	1550	1550	1533.3333	69.5	36	89	36	327	37	322	36	36
451		3/4/2012	40	142	140	141	141	1600	1550	1570	1573.3333	76.3	38	91	38	357	40	335	38	38
452		14/5/12	34	118	118	116	117.33333	1110	1100	1080	1096.6667	63.7	33	74.4	29	281	32	278	33	31
453		7/6/2012	30	115	111	111	112.33333	1040	972	976	966	58.7	30	75,6	30	261	28	273	29	29
454		4/10/2012	28	96	106	102	101.33333	734	891	822	815.66667	54	29	68	27	237	200	258	28	28
455		19/6/12	29	107	106	107	106.66667	895	891	919	901.66667	52.3	28	72.1	28	254	30	264	28	29
456		14/6/12	29	120	123	123	122	1150	1200	1200	1183.3333	55.2	29	72.3	28	266	27	273	29	28
457		9/8/2012	22	96.3	66	101	98.766667	793	810	799	800,66667	33.9	22	52.9	22	176.9	22	185	22	22
458		12/4/2012	39	160	150	145	151.66667	1900	1900	1900	1900	76.5	39	92.7	37	364	40	389	40	39

						The second													
459 ,,	1/5/2012	36	136	131	131	132.66667	1480	1360	1360	1400	67.1	35	91.9	55	314	35		35	VC
460	27/5/12	33	119	119	118	118.66667	1130	1120	1100	1116 6667	61	21	78 6	16	765	2 6	Die C	200	
461	23/7/12	24	99.5	93.8	93.7	95.666667	787	700	KOO	100000000	1000	1 10	0.01	TO	007	10	107	34	15
462 12/1/2013	2/4/2012	40	118	117	120	222222 211	1110	0001	000	/0000.07/	40.0	72	B./ C	2	LI	23	210	23	23
463 .,	19/4/12	88	138	139	126	127 66667	1500		1410	1113.5555	7.77	37	92.3	37	335	37	377	36	37
464	21/6/12	29	101	107	COF	100000000	DOOT	DCCT	11/17	Innet	20	35	90.5	36	314	35	320	36	35
465	20/5/12	0	104	INT		10000.001	170	976	848	860.333333	47.4	26	61.2	24	200	25	225	24	25
466	21/0/12	00	271	124	174 177	124.53333	1240	1220	1220	1226.6667	57.3	30	77.8	31	253	30	270	29	30
757	27/1/22	00	CZT	10	271	125	1290	1240	1250	1260	77	39	98	39	350	39	348	39	39
401	21/8/67	20	90.3	90.3	89.7	1.06	600	548	560	569.33333	31.7	19	45.9	19	149	19	169	19	19
400	22/6/12	29	111	107	106	108	957	916	005	924.33333	50.8	27	63	25	209	25	238	25	25
407	3/6/2012	32	113	114	111	112.66667	1030	1040	976	1015.3333	54.2	29	70.8	28	254	30	258	38	28
4/0 ,,	16/5/12	34	124	123	123	123.33333	1220	1200	1200	1206.6667	60.2	31	75.1	30	264	1.5	286	1 10	02
471	20/4/12	38	141	140	140	140.33333	1580	1550	1550	1560	69	35	68	36	315	VE	310		20 20
472	5/8/2012	22	81	78.1	78.1	79.066667	522	486	485	497,66667	31.6	20	47.5	00	150	000	172	101	00
473 5/11/2012	25/2/12	35	128	128	125	127	1290	1310	1250	1283.3333	77.3	30	96.8	08		202	215	000	30
474	3/4/2012	40	154	154	153	153.66667	1880	1870	1850	1866.6667	72.2	37	90.4	98	1000	38	27A	n de	20
475	22/4/12	37	132	129	126	129	1380	1330	1260	1323.3333	68.5	35	80.5	32	t CCC	34	317		in a
476	11/5/2012	35	127	126	126	126.33333	1280	1260	1260	1266.6667	61.6	32	81	32	771	31	201	222	27
4/7	5/5/2012	35	132	131	132	131.66667	1380	1360	1380	1373.3333	64.8	33	86.1	32	286	1 66	312	202	22
478	17/5/12	34	113	116	119	116	1030	1070	1120	1073.3333	60.7	31	77.8	31	260	30	294	32	31
	23/3/12	42	148	146	148	147.33333	1720	1680	1730	1710	76.3	38	88.9	36	365	40	373	30	4 000
14/1/13	16/4/12	39	134	132	132	132.66667	1440	1390	1380	1403.3333	69.69	36	88.5	36	319	36	370	36	36
181	18/5/12	34	106	110	108	108	888	1000	925	937.66667	51.0	27	64.7	26	226	27	251	27	20
182 <i></i>	7/5/2012	36	125	125	125	125	1240	1250	1250	1246.6667	63.8	33	81.8	33	278	32	301	33	32
11 CO4	12/5/2012	35	118	119	116	117.66667	1110	1120	1080	1103.3333	62	32	76.9	30	259	30	290	32	31
04 <i>1</i> ,	23/7/12	25	97	98.2	95	96.733333	749	768	731	749.33333	39.1	22	50.4	21	173	22	192	12	71
85 ,,	20/8/12	20	67.5	65.2	70.5	67.733333	364	338	393	365	25.8	100	41.2	100	136	19	154	19	
86	6/4/2012	40	137	135	137	136.33333	1490	1410	1490	1463.3333	72.8	37	1 06	36	328	37	333		10
87	8/10/2012	14	50.5	46.7	48	48.4	190	180	200	190	18	14	26	14	803	14	8 00		10 VE
88 ,,	14/4/12	39	137	137	137	137	1490	1480	1490	1486.6667	70.3	36	10.06	36	371	1 22	330	27	35
89	22/7/12	25	96.2	98.5	96.5	97.066667	736	771	741	749.33333	43.9	24	67.1	25	100	VC	020	20	200
06	17/9/12	17	70	70.7	70.2	70.3	376	418	339 3	377,66667	25	11	38	17 1	75.8	18	128	17	17
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492	2	8/8/2012	22	90	89.4	93.8	91.066667	645	636	700	660.33333	33.7	21	51	21	170	77	161	17	77
203		14/8/12	21	96.1	94.7	95.6	95.466667	735	714	727	725.33333	34.2	21	49.5	20	154	21	180	20	20
VOV	1	20/5/12	3.4	141	127	133	137	1580	1480	1410	1490	61.8	32	81.5	33	287	33	302	33	32
105	11	++10/07 G	10	1000	101	14 60	07 A	776	811	754	780.33333	40	23	54.6	22	193	24	200	22	23
064	"	7707/0/0	17	147	101	1001	148 66667	1710	1790	1770	1756.6667	74.6	300	89.1	36	356	39	373	39	30
055	"	77/4/07	20	1221	DAT .	120	130	1500	1550	1530	1526.6667	66.2	34	86.2	34	308	35	305	34	34
104	"	5/0/112	200	00.00	021	E UD	91.7	647	690	647	661,33333	28.1	100	43.3	19	132	19	159	18	18
100	15/1/12	2015/20	37	140	CVL	140	140.66667	1560	1560	1550	1556.6667	61.6	32	78	31	285	33	301	33	32
100	CT IT ICT	12/0/07	40	113	1 00	110	110	999	924	957	960	50.7	27	72.2	28	252	29	268	29	28
501	"	21/0/c1	171	277	27.3	675	68 733333	379	416	335	376.66667	24.8	17	37.9	17	127	18	137	17	17
TOC	"	CLUC/L/2	A C	116	118	116	116.66667	1070	1100	1080	1083.3333	51.3	27	62.7	25	229	27	251	27	26
EU3	11	26/7/17	75	101	1001	106	102.33333	817	803	900	840	43.7	24	58	23	189	24	217	23	24
FOA	11	10/7/2012	27	116	115	117	116	1070	1040	1090	1066.6667	49.1	26	64.1	25	236	28	240	26	26
505		16/7/12	26	114	110	108	110.66667	1040	1000	526,	988.33333	43.1	24	56.3	23	201	25	217	23	23
EDG	1	4/10/2012	28	96	106	102	101.33333	1008	968	1003	993	54	29	68	27	237	28	258	28	28
507		14/4/12	6	150	146	149	148.33333	1780	1680	1770	1743.3333	74.2	38	89.9	36	350	39	341	39	38
508		1/6/2012	32	119	114	117	116.66667	1130	1040	1090	1086.6667	61.3	32	79.2	31	267	31	287	31	31
200	16/1/13	22/6/12	30	116	113	116	115	1070	1010	1080	1053,3333	54.4	29	71.7	28	242	29	266	29	28
510		25/4/12	38	144	148	147	146.33333	1490	1460	1500	1483.3333	76.5	39	102	40	334	40	370	40	40
511	1	2/2/2012	37	139	140	131	136.66667	1490	1550	1480	1506.6667	80.6	41	102	42	361	40	356	41	40
517		79/8/17	20	06	06	96	92	703	689	690	694	35	21	50.9	21	170	21	187	21	21
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DID DID	11	11/6/2012	31	124	124	125	124.33333	1230	1220	1250	1233.3333	60.9	31	76.8	30	268	31	279	30	30
115	"	6/6/2012	32	134	131	130	131.66667	1440	1360	1330	1376.6667	60.8	31	81.6	32	280	32	307	34	32
1010		27/6/12	29	117	121	121	119.66667	1090	1170	1170	1143.3333	54.2	29	63.5	27	245	27	256	27	27
517		26/9/12	16	55.1	53.8	56.6	55.166667	235	230	255	240	20	16	33.1	16	123	16	104	16	16
110	11	21/2/02	85	151	146	148	148.33333	1820	1680	1730	1743.3333	75.2	33	95.5	38	344	38	334	38	38
010		8/6/2012	31	110	1120	116	117.66667	1130	1100	1080	1103.3333	60.8	31	78	31	259	30	286	31	31
000	11	10/5/2012	H W	135	132	134	133.66667	1450	1390	1420	1420	67.3	35	85,5	34	314	35	329	37	ŝ
531		5/9/2012	19	80	73.4	70.4	74.6	510	495	500	501.66667	28.6	100	43	18	141	19	132	17	18
177	"	1/9/2012	79	76.4	77.6	76.4	76.8	464	476	464	468	29.2	19	43.1	19	142	20	157	18	19
572	17/1/12	19/7/12	l e	111	112	116	113	957	1020	1080	1019	45.7	25	58.5	24	199	25	229	25	24
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32 299 3 34 80.2 32 299 3 34 80.2 32 299 3 38 38.7 17 129 1<td>31 79.8 32 283 33 27 64.8 26 228 2 33 82.4 33 313 3 28 67.1 28 245 2 36 89.3 36 345 2 36 89.3 36 342 3 36 89.3 36 342 3 35 87.5 35 315 3 37 9.1 31 278 3 37 9.1 31 278 3 37 9.1 31 278 3 37 9.1 31 278 3 36 57.5 35 315 3 37 17 129 1 1 38 70.7 28 235 2 38 70.7 28 235 2 38 76.5 27 22 2</td><td>31 79.8 32 283 3 27 64.8 26 228 2 33 82.4 33 313 3 28 67.1 28 245 2 36 89.3 36 342 3 36 89.3 36 342 3 36 89.3 36 342 3 36 89.3 36 342 3 37 31 31 278 3 37 37.1 31 278 3 37 54.1 31 278 3 37 54.1 31 278 3 37 54.1 31 279 3 38 70.7 28 235 2 38 38.7 17 129 1 27 57 27 22 2 38 34.5 27 27 2</td><td>31 79.8 32 283 3 27 64.8 26 228 2 33 82.4 33 313 3 28 67.1 28 245 2 36 89.3 36 342 3 36 89.3 36 342 3 36 89.3 36 342 3 37 79.1 31 278 3 37 379.1 31 278 3 37 57.5 35 315 3 37 57.5 35 315 3 37 57.1 31 278 3 38 87.5 35 315 3 38 80.2 23 3 3 38 80.2 23 3 3 38 70.7 28 235 2 38 38.7 17 129 1</td><td>31 79.8 32 283 3 27 64.8 26 228 2 33 82.4 33 313 3 28 67.1 28 245 2 36 89.3 36 342 3 36 89.3 36 342 3 36 89.3 36 342 3 36 89.3 36 342 3 37 31 278 3 3 35 87.5 35 342 3 36 89.3 36 34 3 37 94 10 165 2 36 87.5 35 34 3 37 94 14 79.9 1 38 80.7 17 129 1 38 70.7 28 235 2 38 70.7 28 27 2 <!--</td--><td>31 79.8 32 283 34 34</td><td>31 79.8 32 283 33 27 64.8 26 228 27 33 82.4 33 313 35 28 67.1 28 245 27 36 89.3 36 342 35 36 89.3 36 342 36 36 89.3 36 342 36 36 89.3 36 342 36 37 9.1 28 79.1 31 34 37 9.1 31 278 32 36 87.5 35 315 34 37 9.1 31 278 34 36 87.5 35 315 34 38 70.7 28 235 21 38 38.7 17 129 16 38 38.7 17 129 12 38 38.7 27</td><td>31 79.8 32 283 32 27 64.8 26 228 27 33 82.4 33 313 35 28 67.1 28 245 27 36 89.3 36 342 38 36 89.3 36 342 38 36 89.3 36 342 38 36 89.3 36 342 38 36 89.3 36 342 38 37 9.1 31 278 32 37 9.1 31 278 34 37 9.1 31 278 34 37 9.1 31 278 34 38 87.5 35 315 34 38 70.7 28 235 21 38 38.7 17 129 16 38 38.7 17 129</td><td>31 79.8 32 283 33 33 33 33 33 33 33 33 33 33 35</td><td>31 79.8 32 283 33 33 33 33 33 33 33 33 33 35 36 36</td></td></td> | 31 79.8 32 283 5 27 64.8 26 228 3 33 82.4 33 313 5 36 89.3 36 345 2 36 57.1 28 245 2 36 85.5 17 104 1 33 79.1 31 278 3 35 87.5 35
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33 70.7 36 33.7 70.7 36 37.5 70.7 36 37.5 70.7 36 37.5 70.7<!--</td--><td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 26 71.2 36 89.3 26 71.2 36 89.3 36 71.3 36 89.3 36 71.3 35 87.5 35 67.3 35 87.5 35 67.3 35 87.5 35 31 16 35.6 17 67.3 35 87.5 35 33 79.1 31 34 80.2 32 35.3 37 17 36 37 17 37 24 27 27 31 19 45.6 17 36 37 17 36 37.1 38 38 36 36.1 19 45.6 17</td></td></td></t<><td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 36 89.3 36 71.3 35 87.5 35 67.3 35 87.5 35 67.3 35 87.5 35 30 20 54 26 16.3 14 26.4 17 53.8 19 45.6 19 31 14 26.4 14 16.9 14 26 17 54.1 19 45.6 19 55.1 19 45.6 11 56.1 19 45.6 12 79.7 37 76.7 36 79.7 37 76.7 36</td><td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 16 35.6 17 87.3 33 79.1 31 67.3 35 87.5 35 30 20 54 20 30 20 54 20 31 19 45.9 17 53.8 19 45.9 17 53.8 14 26 12 30 20 54 17 54 14 26 17 53.8 76.7 27 27 54.3 38.7 17 27 55.3 27 27 27 54 26.7 38 27</td><td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 36 89.3 36 71.3 36 89.3 36 71.3 33 79.1 31 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 37 53.8 19 45.6 19 66 34 80.2 32 31 19 45.6 19 56.1 15 31.5 32 61.1 38 70.7 32 56.1 34 50.3 33 70.7 36 88.7 33 70.7 36 88.7 33</td></td> | 51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 16 35.6 17 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 26 30 20 54 26 31 19 45.9 12 66 34 80.2 32 16.9 14 26.4 12 16.9 14 26.4 12 53.8 70.7 28 27 51.3 27 67.9 27 31 19 45.6 12 31 19 45.6 27 31 19 45.6 27
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31 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 37 53.8 19 45.6 19 66 34 80.2 32 31 19 45.6 19 56.1 15 31.5 32 61.1 38 70.7 32 56.1 34 50.3 33 70.7 36 88.7 33 70.7 36 88.7 33</td> | 51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 16 35.6 17 21.3 16 35.6 17 21.3 16 35.6 17 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 20 31 19 45.9 17 51.3 21.4 28 21 53.8 21.4 26.7 21 31 19 45.6 17 51.3 21.5 31.5 21 51.1 18 38.7 17 51.1 19 45.6 16 52.1 31.5 31.5 31 <td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 36 89.3 36 71.3 35 87.5 35 67.3 35 87.5 35 67.3 35 87.5 35 30 20 54 26 16.3 19 45.9 17 53.8 19 45.9 12 26.7 18 38.7 17 51.3 21 26.4 14 16.9 45.6 12 27 51.3 21 26.7 17 51.3 21 26.7 17 51.3 21 26.7 17 51.3 21 26.7 27</td> <td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 16 35.6 17 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 20 30 20 54 20 31 19 45.9 17 53.8 19 45.9 17 53.8 28 70.7 28 53.8 28 70.7 20 31 19 45.6 17 56 29 76.7 20 56 29 76.7 20 56 29 76.7 30 79.7 31 76.5 36</td> <td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 16 35.6 17 21.3 16 35.6 17 21.3 16 35.6 17 63.8 33 79.1 31 67.3 35 87.5 35 30 20 54 26 31 19 45.9 17 53.8 28 70.7 28 54.3 38.7 17 51.3 21.5 31.5 55.1 32.5 33 70.7 36 33.7 70.7 36 37.5 70.7 36 37.5 70.7 36 37.5 70.7<!--</td--><td>51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 26 71.2 36 89.3 26 71.2 36 89.3 36 71.3 36 89.3 36 71.3 35 87.5 35 67.3 35 87.5 35 67.3 35 87.5 35 31 16 35.6 17 67.3 35 87.5 35 33 79.1 31 34 80.2 32 35.3 37 17 36 37 17 37 24 27 27 31 19 45.6 17 36 37 17 36 37.1 38 38 36 36.1 19 45.6 17</td></td> | 51 27 64.8 26 64.7 33 82.4 33 52.8 28 67.1 28 71.2 36 89.3 36 71.2 36 89.3 36 71.2 36 89.3 36 71.3 36 89.3 36 71.3 35 87.5 35 67.3 35 87.5 35 67.3 35 87.5 35 30 20 54 26 16.3 19 45.9 17 53.8 19 45.9 12 26.7 18 38.7 17 51.3 21 26.4 14 16.9 45.6 12 27 51.3 21 26.7 17 51.3 21 26.7 17 51.3 21 26.7 17 51.3 21 26.7 27
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 | 12 34 12 2012 36 148 2012 36 146 12 20 79.4 012 19 90.6 12 35 13 12 35 13 12 35 14 12 35 14 12 35 14 12 28 13 12 28 12 12 28 13 12 28 13 12 28 13 12 28 12 12 39 14 2 34 14 2 34 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 <td>12 34 12 2012 36 143 2012 36 143 2012 36 143 212 20 79,4 212 35 133 2012 35 134 2012 14 46.5 2012 14 46.5 212 29 111 212 28 63.6 212 28 63.1 212 28 121 212 28 63.1 212 28 121 212 33 121 22 33 131 22 34 146 2 36 146 2 36 105 2 36 105 2 10 105 2 10 105 2 16 20 2 10 105 2<td>$\begin{bmatrix} 12 & 34 & 120 \\ 2012 & 36 & 149 \\ 12 & 20 & 79.4 \\ 2 & 35 & 139 \\ 2012 & 14 & 46.1 \\ 12 & 29 & 112 \\ 112 & 28 & 63.2 \\ 112 & 14 & 46.1 \\ 112 & 28 & 63.2 \\ 112 & 38 & 141 \\ 112 & 38 & 141 \\ 12 & 30 & 110 \\ 2 & 30 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2$</td><td>$\begin{bmatrix} 2 & 34 & 126 \\ 012 & 36 & 148 \\ 2 & 20 & 79.4 \\ 2 & 2012 & 19 & 90.6 \\ 2 & 35 & 133 \\ 2012 & 14 & 46.5 \\ 112 & 28 & 63.6 \\ 122 & 28 & 131 \\ 12 & 28 & 63.7 \\ 12 & 19 & 87.1 \\ 12 & 33 & 141 \\ 12 & 30 & 101 \\ 12 & 12 & 30 \\ 12 & 10 \\ 12 & 24 & 102 \\ 12$</td><td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td><td>12 34 12 2012 36 14 2012 36 14 12 20 79,4 12 20 79,4 12 20 79,4 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 38 13 12 33 13 12 33 13 12 33 14 2 34 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14</td></td> | 12 34 12 2012 36 143 2012 36 143 2012 36 143 212 20 79,4 212 35 133 2012 35 134 2012 14 46.5 2012 14 46.5 212 29 111 212 28 63.6 212 28 63.1 212 28 121 212 28 63.1 212 28 121 212 33 121 22 33 131 22 34 146 2 36 146 2 36 105 2 36 105 2 10 105 2 10 105 2 16 20 2 10 105 2 <td>$\begin{bmatrix} 12 & 34 & 120 \\ 2012 & 36 & 149 \\ 12 & 20 & 79.4 \\ 2 & 35 & 139 \\ 2012 & 14 & 46.1 \\ 12 & 29 & 112 \\ 112 & 28 & 63.2 \\ 112 & 14 & 46.1 \\ 112 & 28 & 63.2 \\ 112 & 38 & 141 \\ 112 & 38 & 141 \\ 12 & 30 & 110 \\ 2 & 30 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2$</td> <td>$\begin{bmatrix} 2 & 34 & 126 \\ 012 & 36 & 148 \\ 2 & 20 & 79.4 \\ 2 & 2012 & 19 & 90.6 \\ 2 & 35 & 133 \\ 2012 & 14 & 46.5 \\ 112 & 28 & 63.6 \\ 122 & 28 & 131 \\ 12 & 28 & 63.7 \\ 12 & 19 & 87.1 \\ 12 & 33 & 141 \\ 12 & 30 & 101 \\ 12 & 12 & 30 \\ 12 & 10 \\ 12 & 24 & 102 \\ 12$</td> <td>$\begin{array}{ c c c c c c c c c c c c c c c c c c c$</td> <td>12 34 12 2012 36 14 2012 36 14 12 20 79,4 12 20 79,4 12 20 79,4 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 38 13 12 33 13 12 33 13 12 33 14 2 34 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14</td> | $ \begin{bmatrix} 12 & 34 & 120 \\ 2012 & 36 & 149 \\ 12 & 20 & 79.4 \\ 2 & 35 & 139 \\ 2012 & 14 & 46.1 \\ 12 & 29 & 112 \\ 112 & 28 & 63.2 \\ 112 & 14 & 46.1 \\ 112 & 28 & 63.2 \\ 112 & 38 & 141 \\ 112 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 38 & 141 \\ 12 & 30 & 110 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100 \\ 2 & 30 & 100
\\ 2 & 30 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2 & 100 \\ 2$ | $ \begin{bmatrix} 2 & 34 & 126 \\ 012 & 36 & 148 \\ 2 & 20 & 79.4 \\ 2 & 2012 & 19 & 90.6 \\ 2 & 35 & 133 \\ 2012 & 14 & 46.5 \\ 112 & 28 & 63.6 \\ 122 & 28 & 131 \\ 12 & 28 & 63.7 \\ 12 & 19 & 87.1 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 33 & 141 \\ 12 & 30 & 101 \\ 12 & 12 & 30 \\ 12 & 10 \\ 12 & 24 & 102 \\ 12$ | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 12 34 12 2012 36 14 2012 36 14 12 20 79,4 12 20 79,4 12 20 79,4 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 35 13 12 38 13 12 33 13 12 33 13 12 33 14 2 34 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 2 36 14 |
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25	32	34	26	33	39	26	18	33	24	18	22	17	28	14	14	15	23	35	32	30	18	26	35	37	15	41	35	33	29	40	30	38
238	294	371	247	300	365	245	125	300	228	160	202	138	261	102	94.3	111	216	315	293	276	160	247	316	328	111	353	316	302	272	356	276	338
26	32	33	27	33	40	26	18	31	25	19	22	18	29	15	14	15	23	34	31	30	19	27	36	37	15	300	33	34	29	38	30	30
211	279	295	230	287	354	210	125	268	209	137	178	125.8	246	83.3	7.67	89.6	178	296	273	255	137	230	318	327	89.68	345	292	303	250	330	254	337
25	30	35	25	31	40	26	17	33	27	19	22	17	28	15	14	16	23	33	32	28	19	25	33	333	16	35	33	35	28	00	30	38
63.6	74.8	87.3	62.5	79.3	102	64.8	38.2	81.7	64.4	43.4	53.5	38	70.2	29.1	25	31.5	54.8	82.4	80.4	71.6	43.4	62.5	83.6	93.7	31.5	87.6	83.1	88.2	71.8	95	75.7	93.9
26	31	35	26	32	40	26	10	34	25	19	22	17	27	15	14	15	24	35	33	29	19	26	35	37	15	39	33	35	29	40	29	37
47.9	60.4	67.9	48.1	61.1	79.5	47.9	28.4	65.4	46.7	29.7	40.6	25	50.9	16.4	18	15	43.5	67.2	63.1	56.5	29.7	48.1	67.2	72.3	15	77.3	62.9	69.3	55.3	11	56.1	73.8
366	1280	1310	958.33333	1160	1500	963.33333	383.33333	1443.3333	869.66667	525.33333	797.66667	377.66667	1333.3333	187	200.66667	209	692.33333	1636.6667	1273.3333	1243.3333	525.33333	958.33333	1500	1436.6667	183.66667	1656.6667	1283.3333	1323.3333	1113.3333	1466.6667	1110	1383 3333
925	1280	1300	925	1170	1550	1000	366	1450	900	529	803	339	1310	180	237	197	680	1630	1310	1250	529	925	1530	1420	181	1670	1280	1310	1120	1430	1120	1380
1020	1280	1310	1000	1170	1440	990	389	1440	840	515	790	418	1310	222	148	230	683	1630	1220	1220	515	1000	1410	1410	190	1650	1230	1340	1130	1480	1130	1390
1040	1280	1320	950	1140	1510	900	395	1440	869	532	800	376	1380	159	217	200	709	1650	1290	1260	532	950	1560	1480	180	1650	1290	1320	1090	1490	1080	1320
111.33333	127	128.33333	109	120.66667	148.33333	102.66567	69.4	134.33333	104.66667	81.233333	100	70.3	129.33333	49.7	50.033333	51.433333	93.266667	143.66667	127	125	81.233333	109	137.33333	134.33333	49.033333	145	127.33333	129.33333	118.66667	135.66667	118.66667	132
108	127	128	108	121	150	58	67.8	135	106	81.5	66	70.2	128	47.5	54.6	53	92.4	143	129	125	81.5	108	139	134	49	145	127	129	119	135	119	132
112	127	128	110	121	150	100	6.69	134	103	80.5	101	70.7	128	52.8	43.2	51	6	143	124	124	80.5	110	133	133	50.3	145	127	130	120	136	120	132
114	127	129	109	120	145	110	70.5	134	105	81.7	100	70	132	48.8	52.3	50.3	94.4	145	128	126	81.7	109	140	136	47.8	145	128	129	117	136	117	137
40	32	36	36	33	37	26	100	33	35	19	22	17	37	17	16	15	23	35	32	30	19	26	35	33	15	39	33	33	29	39	28	37
16/4/12	12/6/2012	14/5/12	19/7/12	1/6/2012	5/5/2012	21/7/12	12/9/2012	1/6/2012	24/7/12	5/9/2012	18/8/12	22/9/12	10/7/2012	5/10/2012	16/10/12	6/10/2012	10/8/2012	17/5/12	8/6/2012	20/6/12	5/9/2012	19/7/12	17/5/12	1/6/2012	8/10/2012	17/4/12	3/6/2012	1/6/2012	2/7/2012	23/4/12	3/7/2012	7/5/2012
558	559 "	560	561 19/1/13	562	563	564	565 "	566	567	568 .,	569 .,	570 ,,	571	572 ,,	573 .,	574 '	575 "	576 21/1/13	577 .,	578 .,	579 .,	580 "	581 ,,	582 "	583 '	584 ,,	585 "	586 "	587	588	, 589	UBI

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91 ,,	15/9/12	18	76.3	78.2	76.7	77.066667	463	486	468	472.33333	26.7	18	47.6	20	129	18	160	100	18
92	4/6/2012	33	126	125	125	125.33333	1270	1250	1250	1256.6667	63.7	33	80.6	. 32	285	33	303	â	33
93	26/4/12	38	145	145	145	145	1650	1650	1670	1656.6667	73.7	37	89.3	36	354	39	331	37	37
94	15/6/12	31	129	128	129	128.66667	1320	1310	1310	1313.3333	61	31	78.7	31	251	29	294	32	31
95	21/4/12	39	142	143	139	141.33333	1600	1630	1530	1586.6667	75.5	38	88.1	35	339	38	329	37	37
96 22/1/13	21/7/12	26	116	114	115	115	1070	1040	1060	1056.6667	48.7	26	64.2	26	211	26	248	26	26
97 5/11/2012	25/2/12	35	128	128	125	127	1290	1310	1250	1283.3333	77.3	39	96.8	39	353	39	345	39	39
200	1/6/2012	e, e,	128	124	129	127	1290	1220	1310	1273.3333	63.1	33	80.4	32	273	31	293	32	32
00	4/6/2012	33	128	128	128	128	1290	1310	1280	1293.3333	63.7	33	82.5	33	289	33	304	33	33
	2/7/2012	29	125	123	121	123	1240	1210	1170	1206.6667	55.9	29	76.7	30	250	29	286	31	30
01	8/8/2012	24	119	118	118	118.33333	1130	1100	1100	1110	47.2	26	64.3	25	198	24	222	24	25
02 25/1/13	3/8/2012	24	102	101	101	101.33333	821	811	813	815	45.2	25	61.5	24	208	25	222	24	24
03	21/5/12	35	134	135	134	134.33333	1440	1450	1420	1436.6667	68.1	35	87.4	35	307	35	327	37	35
04	25/6/12	30	124	122	124	123.33333	1220	1180	1220	1206.6667	58.8	30	76.5	30	255	30	279	30	30
05	12/10/2012	15	61.1	62.9	62.9	62.3	297	314	314	308.33333	18	14	30	15	88	15	133	16	15
06	26/7/12	26	105	102	102	103	869	821	822	837.33333	48	26	64.2	26	214	26	235	25	26
07	6/9/2012	20	84.6	86.6	85.4	85.533333	570	596	580	582	33.1	20	47.5	20	146	20	172	19	20
08	2/8/2012	25	110	110	110	110	959	1000	957	972	47	25	65.8	26	215	26	244	26	26
. 60	7/9/2012	20	84.8	86.5	88.1	86.466667	600	680	655	645	32	20	53	20	150	19	178	20	20
10	6/6/2012	33	130	131	130	130.33333	1340	1360	1330	1343.3333	63.4	33	80.3	34	293	33	291	32	33
11	7/9/2012	20	68	85	00	87.333333	630	576	622	609.33333	36.7	22	46.7	20	175	22	187	22	21
12	18/6/12	31	125	125	125	125	1240	1250	1250	1246.6667	60.6	31	7.77	31	259	30	286	31	31.
13 26/1/13	24/8/12	22	95.8	96.6	97.4	96.6	731	742	755	742.66667	38.5	22	52.2	21	184	23	197	21	22
14	23/6/12	31	118	118	118	118	1110	1100	1100	1103.3333	59.3	31	76.9	30	236	28	283	31	30
15	15/4/12	40	140	140	140	140	1560	1550	1550	1553.3333	79.9	40	96.4	39	360	40	334	38	39
16	7/9/2012	20	80.1	79.1	78.7	79.3	510	497	492	499.66667	32.9	20	45.1	19	152	20	176	20	19
17	20/6/12	31	114	115	116	115	1040	1040	1080	1053.3333	59.6	31	75.5	30	261	30	275	30	30
18	11/8/2012	25	92.5	105	100	99.166667	651	611	655	639	42.8	24	57.7	23	191	24	208	22	23
. 61	6/10/2012	16	58.1	58.7	59	58.6	268	274	277	273	20.3	16	31.9	16	91.2	15	119	15	15
201	13/10/12	15	39.2	38.4	40.2	39.266667	122	120	126	122.66667	15	15	31.5	16	89.6	15	111	15	15
21	22/9/12	18	75.6	73.5	75.5	74.866667	454	430	455	446.33333	27	18	40.6	18	120	18	144	17	18
22	30/9/12	16	65.3	63.9	64.2	64.466667	339	325	328	330.66667	17.6	15	33.8	16	106	17	133	16	16
23 28/1/13	8/5/2012	37	138	138	137	137.66667	1500	1510	1490	1500	72.1	37	92	37	330	37	327	37	37

567 70.3 36	704 45.7 25	333 36.4 21	333 61.6 32	333 61.3 32	567 63.1 33	313 51.3 27	567 60.8 31	333 69.4 35	567 41.3 23	320 72.5 37	200 61.4 32	810 68.1 35	333 36.5 21	490 68.8 35	333 20.4 16	333 73.2 37	667 26.3 18	339 26.5 18	440 62.9 33	500 79.5 40	667 67.1 35	870 43.2 24	240 20 16	667 66.3 34	333 58.3 30	333 53.2 28	652 42 24	667 42.2 24	333 37.4 22	060 43.5 24	830 39.3 22	333 29.2 19
30 1570 1526.6	704	39 622 635.33	10 1450 1443.3	1420 1413.3	40 1330 1336.6	a1 975	10 1000 1016.6	90 1780 1783.3	05 815 806.66	00 1830 1	20 1200 1	00 1810 1	07 654 630.33	00 1490 1	69 368 368.33	70 1870 1873.3	35 366 355.66	39 339	40 1440 1	40 1550 1	90 1450 1426.6	83 858	30 255	50 1380 1426.6	20 1220 1233.	21 822 821.3	56 655	90 690 679.60	43 504 527.33	70 1080	21 848	67 608 593.3
1530 148	703 70	645 63	1440 144	1280 144	1240 134	012 200	1010 10101	1780 170	800 80	1830 180	1180 12	1820 18	630 6	1480 15	368 3	1880 18	366 3	339 3	1440 14	1510 14	1440 13	8 698	235 2	1 1450 14	1260 12	2 821 8	645 6	1 659 6	535 5	5 1030 10	3 821 8	605 5
138.66667	94.066667	89.233333	134 32333	123 22323	120	107 22223	CCCCC./NT	US1	100.6	151.66667	123	151	88.766667	136.66667	68.1	154	67.466667	65.3	1 134	148.33333	133.66667	1 104.66667	5 55.166667	2 134	1 124.66667	2 102	7 90.5	1 92.4	6 81.4	115	3 102.33333	4 86.666667
136 141	94.1 94.1	99.61 88	136 135	VEL VEL	UCL UCL	ACT ACT	00T 00T	150 151 777 777	1001	151 152	124 123	151 151	87.3 90	137 137	68.1 68.1	154 154	66.8 67.8	65.3 65.3	134 134	150 150	132 135	105 10/	53.8 56.6	135 132	124 124	102 102	90.8 90.1	93.1 93.1	82.5 79.0	115 11(102 103	84.4 88.4
139	94	90.1	120	101	707	001	100	1420	01.0	157	122	151	68	136	68.1	154	67.8	65.3	134	145	134	105	55.1	135	126	102	06	91	82	113	102	87.2
18/5/12 36	3/8/2012 25	10 0106/010	102 TEN 210 20	00 77/0/07	10C 2T/0/01	TC 7T07/9/01	19/1/12 2/	22/6/12 30	CC 7TN7/0/T	5/5/3017 37	17/6/17 31	18/5/17 36	3/9/2012 21	77/5/12 34	9/10/2012 16	8/5/2012 37	24/9/12 18	27/9/12 18	18/6/12 31	25/4/12 40	29/5/12 34	14/8/12 23	10/10/2012 16	6/6/2012 32	77/6/17 30	16/7/13 . 27	12-Jul 45	7/12/2012 24	1/1/2013 21	24 2/2012	15/17/17 23	11/1/2013 20
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	3/1/2013	22	88	83.3	82.9	84.733333	609	552	547	569.33333	35.7	21	47.9	20	160	21	182	20	70
5/13	5/11/2012	30	129	120	123	124	1320	1130	1200	1216.6667	57.1	30	72.7	29	246	29	279	8	47
	2/12/2012	25	110	108	113	110.33333	959	924	1010	964.33333	46.3	25	64.3	25	210	26	232	25	25
	C + O C / C + / + +	VC	07 R	95.3	98.6	96.566667	761	722	742	741.66667	38.6	22	54.6	22	193	24	202	22	22
	7707/77/77	t ce	14.4	112	111	117 66667	1040	1010	976	1008.6667	58.9	30	76	30	257	30	297	32	30
2/13	7707/77/7		10 90	CTT V	114	88 633333	655	600	554	571	30.9	19	45.7	19	145	19	166	19	19
	CT/T//T	7 F	00 0	01.0	02.7	94 766667	720	715	720	718.33333	34.3	21	35	21	160	21	190	21	21
	STU2/1/2	1 1	0.00	20.40	10.00	100000-10	A72	457	454	443	24.7	17	34.4	16	109	17	129	16	17
	1/2/2013		14.21	4.07	0.01	14.000000	0.24	120	176	122.66667	15	15	31.5	16	89.6	15	111	15	15
	14/2/13	1	23.4	+.0C	2.04	100007.6C	700	285	653	640.66667	33.1	20	47.8	20	152	20	172	19	20
	5/1/2013	07	1001	05.1	1001	222220 00	801	720	822	781	30.7	19	45.7	19	150	20	168	19	20
	15/1/13	2U	C++	115	102	110 66667	1030	1070	848	982.66667	47.1	26	59.6	24	195	24	230	25	25
	21/21/17	DC DC	OF S	76	1.69	94.3	731	703	690	708	43	24	64	25	192	24	230	25	24
	14/11/13	200	120	120	123	121	1150	1130	1200	1160	52.8	28	68.5	27	243	29	271	29	28
	20/0/17	1 88	121	127	125	124.33333	1170	1280	1250	1233.3333	77.2	39	96.6	38	350	39	334	38	38
	C1/C1/C1	22	105	96.8	102	101.26667	869	746	822	812.33333	41.5	23	54.7	22	186	23	202	22	22
	20/8/17	40	164	165	146	158.33333	2130	2160	1690	1993.3333	78.1	40	101	41	346	39	349	40	40
	28/2/13	13	50.6	53.2	51.3	51.7	220	210	230	220	16.9	14	29	14	82.1	14	96.6	14	14
	5/12/2012	25	110	107	108	108.33333	959	916	925	933.33333	49.1	26	60.2	24	206	25	231	25	25
	31/1/13	17	20	72	68.7	70.233333	380	417	340	379	25	17	39	17	126	100	136	17	17
	31/1/13	17	72	72	72	72	384	410	340	378	26	17	300	17	124	10	137	11	11
	21/1/VE	121	71 3	74	71.9	72.4	384	412	337	377.66667	25	17	40	17	122	18	139	17	37
	CT/T/47	14	45	43	47	45	203	200	190	197.66667	14	14	25.6	14	83.5	15	99.1	14	17
	12/00/12	10	139	140	131	136,66667	1490	1550	1480	1506.6667	80.6	41	102	42	361	40	356	41	4(
c 11 3	21/11/20	77	120	117	116	117.66667	1146	1086	1001	1107.6667	52.1	27	68.3	27	223	27	260	27	51
CT/C	C1/11/00	77	120	120	120	120	1130	1100	1080	1106	53.2	27	69	27	225	27	262	27	2
	21/11/20	17	108	107	107	107.33333	940	891	930	920.33333	50.8	27	67	27	231	27	254	27	2
	C1/00/8C	i li	157	151	153	153.66667	1935	1900	1800	1878.3333	76.5	39	91.8	37	360	40	347	40	3
	10/01/25	37	160	150	145	151.66667	1900	1900	1900	1900	75.5	39	92.7	37	364	40	389	40	m
	21/4/12	300	125	125	125	125	1290	1240	1250	1260	17	39	58	39	350	39	348	39	m
	25/1/13	00	75.6	73.5	75.5	74.866667	454	430	455	446.33333	27	00 1-7	40.6	18	120	13	144	17	
	28/17/12	22	101	100	97.6	99.533333	662	800	800	799.66667	40.2	22	54	22	178	22	197	22	7
	16/11/12	28	120	120	123	121	1150	1130	1200	1160	52.8	28	68.5	27	243	29	271	29	2
	The last last	Contraction of the second s	Contraction of the	- Contraction		A Designation of the local data	All and a second s	Contraction of the local division of the loc	and the second value of th	and									

, 069 , 1		7/9/2012	38	145	150	150	148.33333	1510	1440	1550	1500	79.5	40	102	40	354	40	365	39	40
. 691		8/2/2013	16	63	63.8	60.2	62.3333333	306	314	290	303.33333	22	16	36	17	104	16	129	16	16
692		5/10/2012	34	137	136	136	136.33333	1490	1480	1470	1480	4.6	33	82.7	33	305	34	309	34	33
693		24/8/12	40	147	148	147	147.33333	1490	1410	1485	1461.6667	77.9	40	102	40	334	40	370	40	40
694 1/6/	2013	22/12/12	23	105	105	104	104.66667	869	883	858	870	43.2	24	60.1	24	193	24	224	24	24
695		12/1/2013	19	89	85	88	87.333333	630	576	622	609.33333	36.7	22	46.7	20	175	22	187	22	21
. 696		16/02/13	15	39.2	38.4	40.2	39.266667	122	120	126	122.66667	15	15	31.5	16	89.6	15	111	15	15
697 ,,		6/10/2012	34	136	137	137	136.66667	1480	1500	1490	1490	68.8	35	87.1	35	306	35	319	35	35
698 '		5/1/2013	21	93.1	93.3	97.7	94.7	690	693	760	714.33333	48.6	26	64.3	25	212	26	244	26	26
, 669		9/2/2013	16	72.8	75.4	73.4	73,866667	422	452	426	433.33333	28.4	10	42	18	132	19	150	18	18
700/		27/10/12	31	114	115	116	115	1040	1040	1080	1053.3333	59.6	31	75.5	30	261	30	275	30	30
701 ,,		3/11/2012	30	113	108	114	111.66667	1030	924	1030	994.66667	56	29	74.5	29	251	29	280	30	29
702 "		1/12/2012	22	95.8	96.6	97.4	9.96	731	742	755	742.66667	38.5	22	52.2	21	184	23	197	21	22
703 "		26/1/13	18	65.3	65.3	65.3	65.3	339	339	339	, 339	26.5	18	39.1	17	110	17	141	17	17
704		19/1/13	19	91.3	90.8	63	91.7	548	534	534	538.66667	31.6	19	49	20	149	19	175	20	19
705 "		5/1/2001	21	68	87.3	90	88,766667	630	607	654	630.33333	36.5	21	48.1	20	160	21	194	21	21
706		3/11/2012	30	108	113	106	109	923	1010	006	944.33333	54.6	29	67.4	27	243	29	257	28	28
707		29/12/12	22	105	96.8	102	101.26667	869	746	822	812.33333	41.5	23	54.7	22	186	23	202	22	22
708		8/12/2012	23	105	107	106	106	869	916	900	895	45.3	25	60.9	24	203	25	229	25	25
. 709		15/12/12	24	97	95.2	96.6	96.6	749	736	742	742.33333	46.8	25	60.5	24	205	25	223	24	24
. 012		12/1/2013	20	109	102	99.8	103.6	790	800	810	800	43.3	24	55.7	23	198	24	212	23	23
711		9/3/2013	12	72.8	75.4	73.4	73.866667	422	452	426	433.33333	28.4	18	42	18	132	19	150	18	18
712		16/2/13	15	68.5	67.8	73.9	70.066667	369	365	435	390	32.4	20	44.9	19	143	20	173	19	19
713		5/1/2013	21	93.2	102	102	699.066667	691	821	822	778	44.4	24	54.6	22	198	24	212	23	23
714 .,		12/1/2013	20	91.2	88.4	93.9	91.166667	660	620	701	660.33333	35.7	21	47.6	20	162	22	175	20	20
715 .,		10/11/2012	29	113	113	113	113	1030	1010	1020	1020	53.8	28	70.7	28	235	28	263	28	28
716 .,		10/11/2012	29	111	107	106	108	957	916	006	924.33333	50.8	27	63	25	209	25	238	25	25
717 .,		29/12/12	22	105	96.8	102	101.26667	869	745	822	812.33333	41.5	23	54.7	22	186	23	202	22	22
718 3/6/2	2013	19/11/12	28	120	110	115	115	1030	1060	1054	1048	54	29	63	27	237	28	258	28	28
., 719 .,		3/12/2012	26	110	102	109	107	883	930	930	916.33333	48.3	26	64.3	26	211	26	243	26	26
720		27/8/12	40	160	165	150	158.33333	1990	2010	1.850	1950	79	40	58	40	346	39	350	40	40
721		18/3/13	15	55	56	50	53.666667	220	200	201	207	18	14	29	15	79.6	14	95.6	14	14
722		14/1/13	20	86	79.9	87.9	84.6	630	690	700	673.33333	32	20	54.3	20	159	20	160	21	20

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